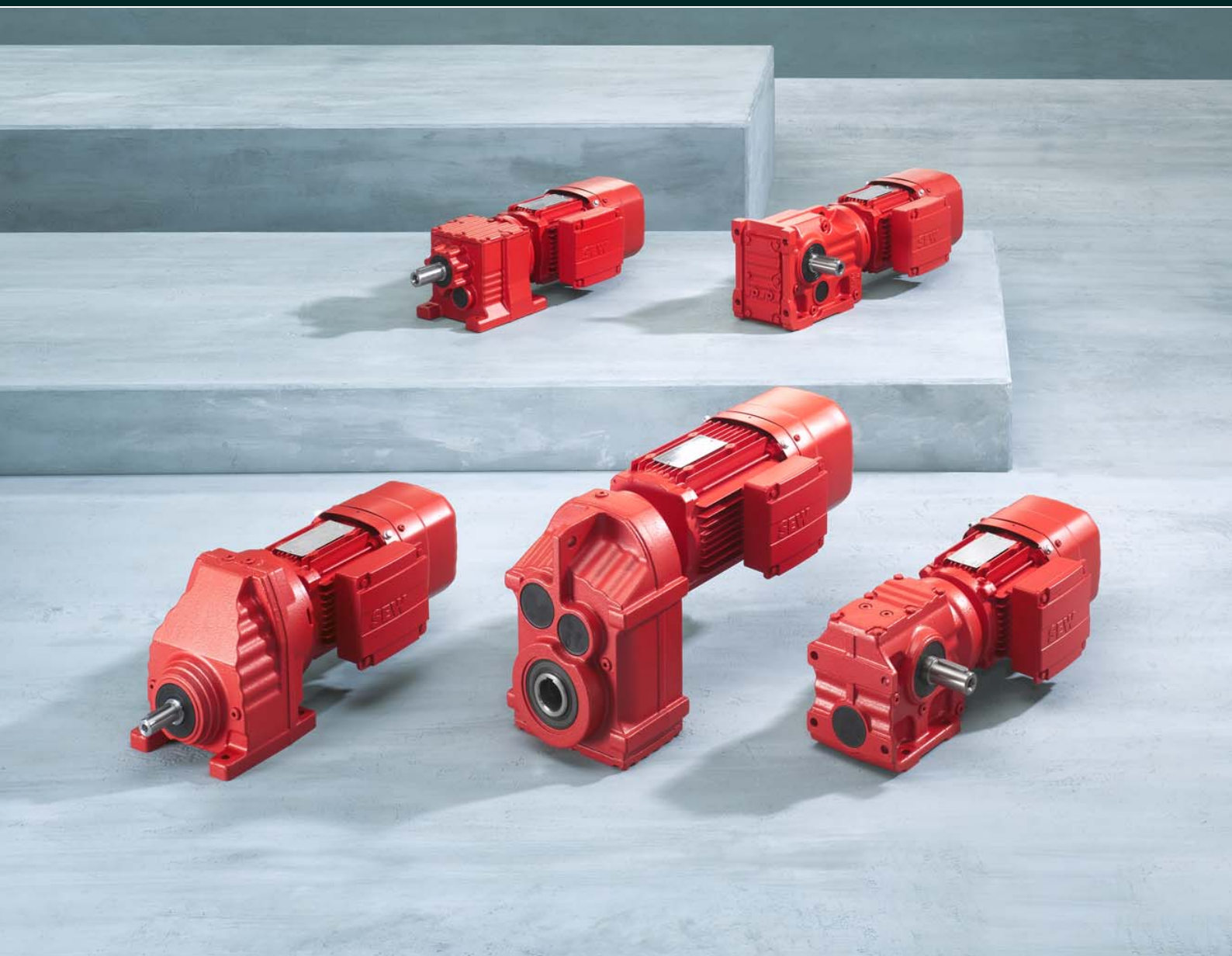


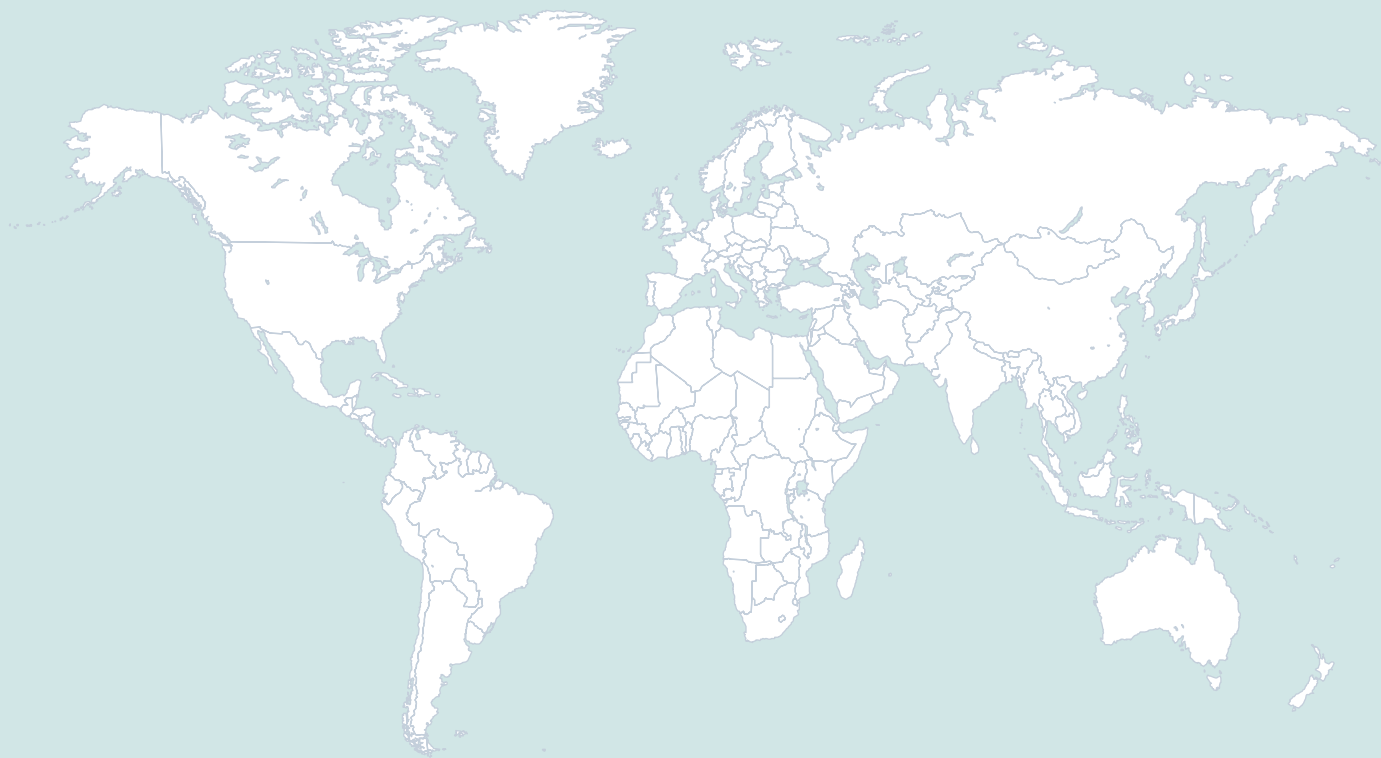


SEW
EURODRIVE

Catalog



Torque Gearmotors
Combination Tables of DRM Motors
with R, F, K, S and W Gear Units





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1 Introduction

1.1 The SEW-EURODRIVE group of companies

Global presence Driving the world with innovative drive solutions for all branches and every application. Products and systems from SEW-EURODRIVE are used in a multitude of applications worldwide. These include the automotive, building materials, food and beverage as well as metal-processing industries. The decision to use drive technology made by SEW-EURODRIVE stands for reliability regarding both, functionality and investment.

We are represented in the most important branches of industry all over the world: with 15 manufacturing plants, 67 assembly plants in 44 countries and our comprehensive range of services, which we consider an integrative service that continues our commitment to outstanding quality.

Always the right drive

The SEW-EURODRIVE modular concept offers millions of combinations. This wide selection enables you to choose the correct drive for all applications, each based on the required speed and torque range, space available and the ambient conditions. Gear units and gearmotors offering a unique and finely tuned performance range and the best economic prerequisites to face your drive challenges.

The gearmotors are powered by MOVITRAC® frequency inverters, MOVIDRIVE® inverters and MOVIAXIS® multi-axis servo inverters, a combination that blends perfectly with the existing SEW-EURODRIVE program. As in the case for mechanical systems, the development, production and assembly is also carried out completely by SEW-EURODRIVE. In combination with our drive electronics, these drives provide the utmost in flexibility.

Products of the servo drive system, such as low backlash servo gear units, compact servomotors or MOVIAXIS® multi-axis servo inverters provide precision and dynamics. From single-axis or multi-axis applications all the way to synchronized process sequences, servo drive systems by SEW-EURODRIVE offer a flexible and customized implementation of your application.

For economical, decentralized installations, SEW-EURODRIVE offers components from its decentralized drive system, such as MOVIMOT®, the gearmotor with integrated frequency inverter or MOVI-SWITCH®, the gearmotor with integrated switching and protection function. SEW-EURODRIVE hybrid cables have been designed specifically to ensure cost-effective solutions, independent of the philosophy behind or the size of the system. The latest developments from SEW-EURODRIVE: MOVITRANS® system components for contactless energy transfer, MOVIPRO®, the decentralized drive controller and MOVIFIT®, the new decentralized intelligence.

Power, quality and sturdy design combined in one standard product: With high torque levels, industrial gear units from SEW-EURODRIVE realize major movements. The modular concept will once again provide optimum adaptation of industrial gear units to meet a wide range of different applications.

Your ideal partner Its global presence, extensive product range and broad spectrum of services make SEW-EURODRIVE the ideal partner for the machinery and plant construction industry when it comes to providing drive systems for demanding applications in all branches of industries and applications.



1.2 Products and systems from SEW-EURODRIVE

The products and systems from SEW-EURODRIVE are divided into the following 4 product groups:

1. Gearmotors and frequency inverters
2. Servo drive systems
3. Decentralized drive systems
4. Industrial gear units

Products and systems used in several group applications are listed in a separate group "Products and systems covering several product groups". Consult the following tables to locate the products and systems included in the respective product group:

1. Gearmotors and frequency inverters		
Gear units/gearmotors	Motors	Frequency inverters
- Helical gear units/helical gearmotors - Parallel-shaft helical gear units/parallel-shaft helical gearmotors - Helical-bevel gear units/helical-bevel gearmotors - Helical-worm gear units/helical-worm gearmotors - Spiroplan® right-angle gearmotors - Drives for electrified monorail systems - Geared torque motors - Pole-changing gearmotors - Variable speed gear units/variable speed gearmotors - Aseptic gearmotors - Gear units/gearmotors to ATEX standard - Variable speed gear units/variable speed gearmotors to ATEX standard	- Asynchronous AC motors/AC brakemotors - Pole-changing AC motors/AC brakemotors - Energy-efficient motors - Explosion-proof AC motors/AC brakemotors - Torque motors - Single-phase motors/single-phase brakemotors - Asynchronous linear motors	- MOVITRAC® frequency inverters - MOVIDRIVE® drive inverters - Control, technology and communication options for inverters

2. Servo drive systems		
Servo gear units and servo gearmotors	Servomotors	Servo drive inverters/servo inverters
- Low backlash planetary gear units/planetary gearmotors - Low backlash helical-bevel gear units / helical-bevel gearmotors - Explosion-proof servo gear units and servo gearmotors	- Asynchronous servo-motors/servo brakemotors - Synchronous servo-motors/servo brakemotors - Explosion-proof servo-motors/servo brakemotors - Synchronous linear motors	- MOVIDRIVE® servo inverters - MOVIAXIS® multi-axis servo inverters - Control, technology and communication options for servo drive inverters and servo inverters



3. Decentralized drive systems		
Decentralized drives	Communication and installation	Contactless energy transfer
• MOVIMOT® gearmotors with integrated frequency inverter • MOVIMOT® motors/brakemotors with integrated frequency inverter • MOVI-SWITCH® gearmotors with integrated switching and protection function • MOVI-SWITCH® motors/brakemotors with integrated switching and protection function • Explosion-proof MOVIMOT® and MOVI-SWITCH® gearmotors	• Fieldbus interfaces • Field distributors for decentralized installation • MOVIFIT® product range – MOVIFIT® MC for controlling MOVIMOT® drives – MOVIFIT® SC with integrated electronic motor switch – MOVIFIT® FC with integrated frequency inverter	• MOVITRANS® system – Stationary components for energy supply – Mobile components for energy consumption – Line cables and installation material

4. Industrial gear units
• Helical gear units • Bevel-helical gear units • Planetary gear units

Products and systems covering several product groups
• Operator terminals • MOVI-PLC® drive-based control system

In addition to products and systems, SEW-EURODRIVE offers a comprehensive range of services. These include:

- Technical consulting
- Application software
- Seminars and training
- Extensive technical documentation
- International customer service

Visit our homepage at

→ www.sew-eurodrive.com

The website provides comprehensive information and services.



1.3 Documentation

***Contents of this
publication***

This "Torque Gearmotors" catalog describes the combination of DRM motors with R, F, K, S and W gear units as well as their project planning.

***Additional
documentation***

In addition to this "Torque Gearmotors" catalog, the "DRE Gearmotors" catalog is available from SEW-EURODRIVE. In this catalog, you find the dimension sheets and detailed information on gearmotors and gear unit selection.

The "AC Motors" catalog provides all the information on DR. series AC motors.

Please note that the complete range of technical documentation is available at our home page:

→ **www.sew-eurodrive.com**



2 Product Description

2.1 General product description

Torque motors are AC motors designed to operate with rated torque at standstill. They are comparable with springs with endless spring travel.

Torque gearmotors move flaps, gates, or switches. They move press dies into die change position. In all cases, they serve as a drive in which a stop position must be reached and held following a short movement.

While under voltage, torque gearmotors can also have their speed matched temporarily by another drive and then continue running at their own force.

Supply voltages and degrees of protection of torque gearmotors correspond to those of DR. series AC motors.

The electrical design enables torque motors to be continuously operated in S1 duty cycle/100% cdf with the permitted starting torque irrespective of the starting frequency.

When operating torque motors in S3 duty cycle /15% cdf, the attainable starting torque increases to three times the value, see the figure below. This duty cycle is permitted only briefly (15% cdf), or continuously with forced cooling fan.

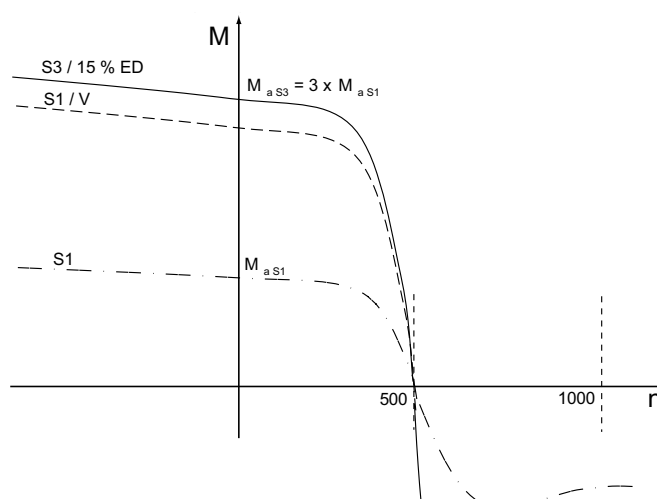
The dimensions of the DRM motors are identical with those of the DR. motors of the same size. The DRE160M motor, for example, corresponds to the DRM160M motor. You find the dimensions of the motors in the "AC Motors" catalog, and those of the gearmotors in the "DRE/DRS Gearmotors" catalog.

Torque gearmotors are assembled using a modular concept just like gearmotors. Since torque motors develop less torque in comparison to DR. motors of the same type, due to thermal conditions, there is a greater range of possible combinations with gear units.

The combination overviews in the following chapters are based on an input speed = 0 and are intended to serve as orientation for project planning.

The values in the combination overviews were calculated taking account of the respective efficiency levels.

The following figure shows the speed/torque characteristic curve of DRM motors.



You find a motor-specific speed/torque characteristic curve in chapter "Project Planning" on page 241 and subsequent pages.



Product Description

Product-specific description of DR. gearmotors

2.2 Product-specific description of DR. gearmotors

You find the various types of gear units in the "DRE/DRS Gearmotors" catalog and in the "Gear Units" catalog.

For a product-specific description of DR. motors and DR. brakemotors, refer to the "AC Motors" catalog.

2.3 Type designation

AC motor series

Designation	
DRM..	Torque motor: Torque motor for operation at speed $n = 0$
71 - 132	Sizes: 71 / 80 / 90 / 100 / 112 / 132
S - L	Lengths: S = Short / M = Medium / L = Long
12	Number of poles

Output types

Designation	Option
/FI	IEC foot-mounted motor with specification of shaft height
/FG	7 series integral motor, as stand-alone motor
/FF	IEC flange-mounted motor with bore holes
/FT	IEC flange-mounted motor with threads
/FL	General flange-mounted motor (other than IEC)
/FM	7 series integral gearmotor with IEC feet, with specification of shaft height if required
/FE	IEC flange-mounted motor with bore holes and IEC feet, with specification of shaft height
/FY	IEC flange-mounted motor with thread and IEC feet, with specification of shaft height
/FK	General flange-mounted motor (other than IEC) with feet, with specification of shaft height if required
/FC	C-face flange-mounted motor, dimensions in inch



Mechanical attachments

Designation	Option
BE..	Spring-loaded brake with size specification
HR	Manual brake release of the brake, automatic disengaging function
HF	Manual brake release, lockable
/RS	Backstop

2

Temperature sensor/detection

Designation	Option
/TF	Temperature sensor (positive coefficient thermistor or PTC resistor)
/TH	Thermostat (bimetallic switch)
/KY	One KTY84 - 130 sensor
/PT	One/three PT100 sensor(s)

Encoders

Designation	Option
/ES7S /EG7S /EH7S /EV7S	Mounted speed sensor with sin/cos interface
/ES7R /EG7R /EH7R	Mounted speed sensor with TTL (RS-422) interface, U = 9 - 26 V
/EI7C	Mounted speed sensor with HTL interface
/EI76 /EI72 /EI71	Mounted speed sensor with HTL interface and 6 / 2 / 1 period(s)
/AS7W /AG7W	Mounted absolute encoder, RS-485 interface (multi-turn)
/AS7Y /AG7Y /AH7Y	Mounted absolute encoder, SSI interface (multi-turn)
/ES7A /EG7A	Mounting adapter for encoders from the SEW portfolio
/XV.A	Mounting adapter for non-SEW encoders
/XV..	Mounted non-SEW encoders


Connection variants

Designation	Option
/IS	Integrated plug connector
/ASB.	HAN 10ES plug connector on terminal box with two-clamp closure (cage clamps on motor end)
/ACB.	HAN 10E plug connector on terminal box with two-clamp closure (crimp contacts on motor end)
/AMB. /ABB. /ADB. /AKB.	HAN Modular 10B plug connector on terminal box with two-clamp closure (crimp contacts on motor end)
/ASE.	HAN 10ES plug connector on terminal box with single-clamp closure (cage clamps on motor end)
/ACE.	HAN 10ES plug connector on terminal box with single-clamp closure (crimp contacts on motor end)
/AME. /ABE. /ADE. /AKE.	HAN Modular 10B plug connector on terminal box with single-clamp closure (crimp contacts on motor end)
/ASK.	ECOFAST® plug connector HAN 10ES on terminal box with single-clamp closure (cage clamp on motor end), additionally with mounting screws for optional carrier plate
/KCC	Terminal strip with cage clamps (for DR.71 - DR.132)
/KC1	C1 profile compliant connection of the DR80 monorail system drive (VDI guideline 3643) (for DR71, 80)

Ventilation

Designation	Option
/V	Forced cooling fan
/Z	Additional inertia (flywheel fan)
/AL	Metal fan
/U	Non-ventilated (without fan)
/OL	Non-ventilated (closed B side)
/C	Protection canopy for the fan guard
/LF	Air filter
/LN	Low-noise fan guard (for DR.71 132)

Other additional features

Designation	Option
/DH	Condensation drain hole
/RI	Reinforced winding insulation
/2W	2nd shaft end on the motor/brakemotor



2.4 Example of the type designation

Motor variant		Type designation of the motor variant														
Other additional features																
2nd shaft end	-	/2W														
Reinforced winding insulation	-	/RI														
Temperature sensor/temperature detection																
Temperature detection	-	/KT	/PT													
Ventilation																
Fan guard	-	/C	/LF													
Fan	-	/Z	/AL									/U	/OL			
Forced cooling fan	-	/N														
Encoder																
Encoder	-	/ES7.	/EG7.	/EH7.	/EV7.	/AS7.	/AG7.	/AH7.	/XV..							
Thermal motor protection																
Thermal motor protection	-	/TF	/TH													
Connection options																
Connection options	-	/AB..	/AC..	/AD..	/AK..	/AM..	/AS..	/KCC	/KC1							
Backstop																
Backstop	-	/RS														
Output variants																
Output variant	/FF	/FG	/FM	/F*	/FT	/FC	/FE*	/FY*	/FL	/FK*	*= Shaft height					
Mechanical attachments																
Manual brake release	-	HF	HR													
Brake	-	BE05	BE1									BE2	BE5			
AC motor series																
Number of poles	12															
Length	S											M	L			
Size	71											80	90	100	112	132
Type designation	M															
Series	DR															



Product Description

Nameplate of a DRM motor

2.5 Nameplate of a DRM motor

SEW-EURODRIVE			
76646 Bruchsal / Germany			
K87 R57 DRM90M12BE1/V			
01.1398407710.0001.11		3~IEC60034	
Hz 50 r/min 500/3.5		IP 54	
Nm 1.3 S1	V 230/400 Δ /Y	A 0,88/0,51	
○ Nm 3.9 S3/15%	V 400/690 Δ /Y	A 1,52/0,88 ○	
Iso.Kl. 155(F)		cos φ 0,56	
i 151.1 Nm54	IM M1A	Vbr 230 AC	
 CLP 220 Miner.Öl / 3.7 l		Nm 10	
kg 130	1885936	BG1.5	
		Made in Germany	

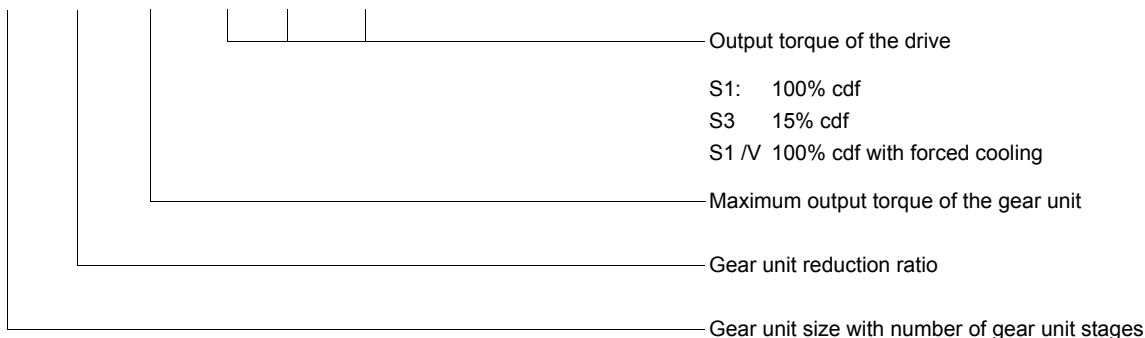
68984axx



3 Important Notes Regarding Selection Tables and Dimension Sheets

3.1 Information on selection tables

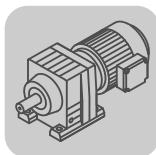
	M_a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M_{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
R37 	3.41	112	2.3	7.0	6.3	3.0	9.0	9.0	4.3	13	13	7.7	23	17	8.7	26	23
	4.05	122	2.8	8.3	7.5	3.6	11	11	5.1	15	15	9.1	27	20	10	31	28
	4.32	126	3.0	8.9	8.0	3.8	11	11	5.5	16	16	9.7	29	21	11	33	30
	5.06	135	3.5	10	9.4	4.4	13	13	6.4	19	19	11	34	25	13	39	35
	5.67	142	3.9	12	11	5.0	15	15	7.2	22	22	13	38	28	14	43	39
	6.67	144	4.6	14	12	5.9	18	18	8.5	25	25	15	45	33	17	51	46
	7.97	156	5.4	16	15	7.0	21	21	10	30	30	18	54	39	20	61	54
	9.47	167	6.5	19	18	8.3	25	25	12	36	36	21	64	46	24	72	65
	10.11	170	6.9	21	19	8.9	27	27	13	38	38	23	68	49	26	77	69
	11.83	183	8.1	24	22	10	31	31	15	45	45	27	80	58	30	90	81
	13.25	190	9.1	27	25	12	35	35	17	50	50	30	89	65	34	101	91
	15.60	200	11	32	29	14	41	41	20	59	59	35	105	76	40	119	107
	18.05	200	12	37	33	16	48	48	23	69	69	41	122	88	46	137	123
	19.31	200	13	40	36	17	51	51	25	74	74	43	130	94	49	147	132
	22.27	200	15	46	41	20	59	59	28	85	85	50	150	109	57	170	152
	26.03	185	18	53	48	23	69	69									
	28.32	200	19	58	53	25	75	75									



	The dark-gray fields contain preferred combinations
	Light-gray fields: Consult SEW-EURODRIVE.
	White fields: Combination not possible

m [kg]		DRM				
	s	71S12	71M12	90M12	100M12	100L12
RX57		16	17	27	35	38
RXF: + 1.9 kg						

m Mass of the drive
 s Number of gear unit stages



4 R..DRM – 50 Hz

4.1 RX..DRM

RX 57

M_a [Nm]			DRM														
	i	M_{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1 0.7	S3 2.1	S1 /V 1.9	S1 0.9	S3 2.7	S1 /V 2.7	S1 1.3	S3 3.9	S1 /V 3.9	S1 2.3	S3 6.9	S1 /V 5.0	S1 2.6	S3 7.8	S1 /V 7.0
RX57 	1.30	63	0.9	2.7	2.4	1.2	3.5	3.5	1.7	5.0	5.0	3.0	8.9	6.4	3.3	10	9.0
	1.48	68	1.0	3.1	2.8	1.3	3.9	3.9	1.9	5.7	5.7	3.4	10	7.3	3.8	11	10
	1.65	69	1.1	3.4	3.1	1.5	4.4	4.4	2.1	6.4	6.4	3.7	11	8.2	4.2	13	11
	1.92	69	1.3	4.0	3.6	1.7	5.1	5.1	2.5	7.4	7.4	4.4	13	9.5	4.9	15	13
	2.04	69	1.4	4.2	3.8	1.8	5.4	5.4	2.6	7.9	7.9	4.6	14	10	5.2	16	14
	2.37	69	1.6	4.9	4.4	2.1	6.3	6.3	3.0	9.1	9.1	5.4	16	12	6.1	18	16
	2.64	69	1.8	5.5	5.0	2.3	7.0	7.0	3.4	10	10	6.0	18	13	6.8	20	18
	2.91	67	2.0	6.0	5.5	2.6	7.8	7.8	3.7	11	11	6.6	20	14	7.5	22	20
	3.14	65	2.2	6.5	5.9	2.8	8.4	8.4	4.0	12	12	7.1	21	16	8.1	24	22
	3.55	69	2.5	7.4	6.7	3.2	9.5	9.5	4.6	14	14	8.1	24	18	9.1	27	25
	3.79	69	2.6	7.9	7.1	3.4	10	10	4.9	15	15	8.6	26	19	9.7	29	26
	4.35	68	3.0	9.0	8.2	3.9	12	12	5.6	17	17	9.9	30	21	11	34	30
	5.07	36	3.5	11	9.5	4.5	14	14									
	5.50	39	3.8	11	10	4.9	15	15									

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
RX57		16	17	27	35	38
RXF: + 1.9 kg						

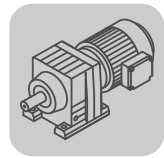
RX 67

M_a [Nm]			DRM														
	i	M_{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1 0.7	S3 2.1	S1 /V 1.9	S1 0.9	S3 2.7	S1 /V 2.7	S1 1.3	S3 3.9	S1 /V 3.9	S1 2.3	S3 6.9	S1 /V 5.0	S1 2.6	S3 7.8	S1 /V 7.0
RX67 	1.40	104							1.8	5.4	5.4	3.2	9.5	6.9	3.6	11	9.7
	1.61	114	1.1	3.3	3.0	1.4	4.3	4.3	2.1	6.2	6.2	3.7	11	8.0	4.1	12	11
	1.86	126	1.3	3.9	3.5	1.7	5.0	5.0	2.4	7.2	7.2	4.2	13	9.2	4.8	14	13
	2.04	134	1.4	4.2	3.8	1.8	5.4	5.4	2.6	7.9	7.9	4.6	14	10	5.2	16	14
	2.40	123	1.7	5.0	4.5	2.1	6.4	6.4	3.1	9.2	9.2	5.5	16	12	6.2	18	17
	2.54	118	1.8	5.3	4.8	2.3	6.8	6.8	3.3	9.8	9.8	5.8	17	13	6.5	20	18
	2.89	106	2.0	6.0	5.4	2.6	7.7	7.7	3.7	11	11	6.6	20	14	7.4	22	20
	3.20	100	2.2	6.6	6.0	2.8	8.5	8.5	4.1	12	12	7.3	22	16	8.2	25	22
	3.77	87	2.6	7.8	7.1	3.4	10	10	4.8	15	15	8.6	26	19	9.7	29	26
	4.30	80	3.0	8.9	8.1	3.8	11	11	5.5	17	17	9.8	29	21	11	33	30
	4.53	82	3.1	9.4	8.5	4.0	12	12	5.8	17	17	10	31	22	12	35	31
	5.18	75	3.6	11	9.7	4.6	14	14	6.7	20	20	12	35	26	13	40	36
	6.07	43	4.2	13	11	5.4	16	16									

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
RX67	21	19	20	30	37	40
RXF: + 4.0 kg						



→ 15



RX 77

M _a [Nm]			DRM																				
i	M _{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0	2.9	8.7	7.2	3.6	10.8	8.7
RX77 1	1.42	155							1.8	5.5	5.5	3.2	9.7	7.0	3.6	11	9.8	4.1	12	10	5.1	15	12
	1.67	173							2.1	6.4	6.4	3.8	11	8.2	4.3	13	12	4.8	14	12	5.9	18	14
	1.88	187							2.4	7.2	7.2	4.3	13	9.3	4.8	14	13	5.4	16	13	6.7	20	16
	2.13	200	1.5	4.4	4.0	1.9	5.7	5.7	2.7	8.2	8.2	4.8	15	11	5.5	16	15	6.1	18	15	7.6	23	18
	2.43	215	1.7	5.0	4.6	2.2	6.5	6.5	3.1	9.4	9.4	5.5	17	12	6.2	19	17	7.0	21	17	8.6	26	21
	2.70	215	1.9	5.6	5.1	2.4	7.2	7.2	3.5	10	10	6.1	18	13	6.9	21	19	7.7	23	19	9.6	29	23
	3.08	193	2.1	6.4	5.8	2.7	8.2	8.2	4.0	12	12	7.0	21	15	7.9	24	21	8.8	26	22	11	33	26
	3.25	182	2.2	6.7	6.1	2.9	8.7	8.7	4.2	13	13	7.4	22	16	8.3	25	22	9.3	28	23	12	35	28
	3.70	153	2.6	7.7	6.9	3.3	9.9	9.9	4.8	14	14	8.4	25	18	9.5	29	26	11	32	26	13	39	32
	4.04	143	2.8	8.4	7.6	3.6	11	11	5.2	16	16	9.2	28	20	10	31	28	12	35	29	14	43	35
	4.73	123	3.3	9.8	8.9	4.2	13	13	6.1	18	18	11	32	23	12	36	33	14	41	34	17	50	41
	5.35	103	3.7	11	10	4.8	14	14	6.9	21	21	12	36	26	14	41	37	15	46	38	19	57	46
	5.63	110	3.9	12	11	5.0	15	15	7.2	22	22	13	38	28	14	43	39	16	48	40	20	60	48
	6.41	103	4.4	13	12	5.7	17	17	8.2	25	25	15	44	32	16	49	44						
	7.47	53	5.2	15	14	6.6	20	20															
	8.00	57	5.5	17	15	7.1	21	21															

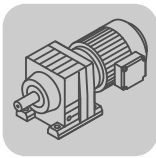
m [kg]		DRM						
s		71S12	71M12	90M12	100M12	100L12	132S12	132M12
RX77	21	30	31	40	47	50	65	78
RXF: + 2.3 kg								

RX 87

M _a [Nm]			DRM																	
i	M _{amax} [Nm]	71M12			90M12			100M12			100L12			132S12			132M12			
		S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	
		0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0	2.9	8.7	7.2	3.6	10.8	8.7	
RX87  1	2.15	385				2.8	8.3	8.3	4.9	15	11	5.5	17	15	6.2	18	15	7.6	23	18
	2.48	405				3.2	9.6	9.6	5.6	17	12	6.4	19	17	7.1	21	18	8.8	26	21
	2.76	405				3.5	11	11	6.3	19	14	7.1	21	19	7.9	24	20	9.8	29	24
	3.09	405	2.7	8.2	8.2	4.0	12	12	7.0	21	15	7.9	24	21	8.9	27	22	11	33	27
	3.48	405	3.1	9.3	9.3	4.5	13	13	7.9	24	17	8.9	27	24	10.0	30	25	12	37	30
	3.78	305	3.4	10	10	4.9	15	15	8.6	26	19	9.7	29	26	11	32	27	13	40	32
	4.50	290	4.0	12	12	5.8	17	17	10	31	22	12	35	31	13	39	32	16	48	39
	5.07	250	4.5	14	14	6.5	20	20	12	35	25	13	39	35	15	44	36	18	54	44
	5.56	225	4.9	15	15	7.1	21	21	13	38	27	14	43	38	16	48	40	20	59	48
	6.45	192	5.7	17	17	8.3	25	25	15	44	32	17	50	45	18	55	46	23	69	55
	7.20	140	6.4	19	19	9.2	28	28	16	49	36	18	55	50	21	62	51	26	77	62
	7.63	149	6.8	20	20	9.8	29	29	17	52	38	20	59	53	22	66	54	27	81	66
8.65	139	7.7	23	23	11	33	33	20	59	43	22	67	60							

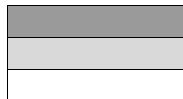
m [kg]		DRM					
s		71M12	90M12	100M12	100L12	132S12	132M12
RX87	1	47	56	64	67	82	95
RXF: + 5.0 kg							

	→ 15

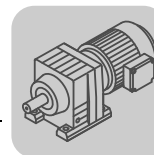

RX 97

M_a [Nm]			DRM																	
i	M_{amax}	[Nm]	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0	2.9	8.7	7.2	3.6	10.8	8.7
RX97  1	2.92	595				3.8	11	11	6.6	20	14	7.5	23	20	8.4	25	21	10	31	25
	3.30	595				4.2	13	13	7.5	22	16	8.5	25	23	9.5	28	23	12	35	28
	3.64	595				4.7	14	14	8.3	25	18	9.4	28	25	10	31	26	13	39	31
	4.04	595	3.6	11	11	5.2	16	16	9.2	28	20	10	31	28	12	35	29	14	43	35
	4.52	595	4.0	12	12	5.8	17	17	10	31	22	12	35	31	13	39	32	16	48	39
	4.91	395	4.4	13	13	6.3	19	19	11	33	24	13	38	34	14	42	35	17	52	42
	5.79	420	5.1	15	15	7.4	22	22	13	39	29	15	45	40	17	50	41	21	62	50
	6.56	300	5.8	17	17	8.4	25	25	15	45	32	17	51	45	19	56	47	23	70	56
	7.16	260	6.4	19	19	9.2	28	28	16	49	35	18	55	50	21	62	51	25	76	62
	8.23	225	7.3	22	22	11	32	32	19	56	41	21	63	57	24	71	59	29	88	71

m [kg]		DRM					
	s	71M12	90M12	100M12	100L12	132S12	132M12
RX97		72	80	87	90	105	120
RXF: + 8.6 kg							



→ 15



4.2 R..DRM

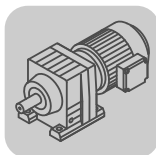
R 07

	M_a [Nm]		DRM					
	i	M_{amax} [Nm]	S1	71S12 S3	S1 /V	S1	71M12 S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7
R07 	3.21	31	2.2	6.6	6.0	2.8	8.5	8.5
	3.68	33	2.5	7.5	6.8	3.2	9.7	9.7
	3.95	34	2.7	8.1	7.3	3.5	10	10
	4.57	36	3.1	9.4	8.5	4.0	12	12
	4.92	37	3.4	10	9.1	4.3	13	13
	5.76	40	3.9	12	11	5.1	15	15
	6.83	43	4.7	14	13	6.0	18	18
	7.48	43	5.1	15	14	6.6	20	20
	7.85	49	5.4	16	15	6.9	21	21
	9.01	50	6.2	18	17	7.9	24	24
	9.67	50	6.6	20	18	8.5	25	25
	11.18	50	7.6	23	21	9.8	29	29
	12.06	50	8.2	25	22	11	32	32
	14.12	50	9.6	29	26	12	37	37
	16.73	50	11	34	31	15	44	44
R07 	18.31	50	13	38	34	16	48	48
	21.73	50	15	44	40	19	57	57
	23.32	50	16	47	43	20	61	61
	26.97	50	18	55	49	23	70	70
	29.08	50	20	59	53	25	76	76
	34.05	50	23	69	62	30	89	89
	38.51	50	26	78	71	33		
	40.34	50	27	82	74	35		
	41.31	50	28	84	76	36		
	44.16	50	30	89	81	38		
	47.78	50	32	97	88	41		
	51.52	50	35		94	45		
	60.32	50	41			52		
	71.47	50	48			62		
	78.24	50	53			68		

m [kg]		DRM	
s		71S12	71M12
R07		8.8	10
R07		9.0	10

RF: + 0.0 kg

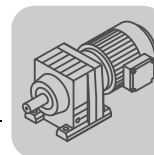



R 17

M_a [Nm]			DRM					
	i	M_{amax}	S1	71S12	S1	S1	71M12	S1
		[Nm]	0.7	S3	/V	S1	S3	/V
				2.1	1.9	0.9	2.7	2.7
R17  2	3.83	45	2.6	7.9	7.1	3.4	10	10
	4.51	48	3.1	9.2	8.4	4.0	12	12
	5.09	51	3.5	10	9.4	4.5	13	13
	5.76	53	3.9	12	11	5.1	15	15
	6.15	54	4.2	13	11	5.4	16	16
	7.04	55	4.8	14	13	6.2	19	19
	7.55	56	5.2	15	14	6.6	20	20
	8.63	72	5.9	18	16	7.6	23	23
	10.15	77	6.9	21	19	8.9	27	27
	11.45	81	7.8	23	21	10	30	30
	12.98	85	8.9	27	24	11	34	34
	13.84	85	9.5	28	26	12	36	36
	15.84	85	11	32	29	14	42	42
	16.99	85	12	35	32	15	45	45
	19.71	85	13	40	37	17	52	52
	23.15	85	16	47	43	20	61	61
R17  3	25.23	85	17	52	47	22	66	66
	24.07	85	16	49	44	21	63	63
	28.32	85	19	57	52	25	74	74
	31.94	85	22	65	59	28	83	83
	36.20	85	24	73	66	31	94	94
	38.61	85	26	78	71	34	101	101
	44.18	85	30	89	81	38	115	115
	47.44	85	32	96	87	41	124	124
	53.76	85	36	109	99	47	140	140
	57.35	85	39	116	105	50	149	149
	65.61	85	44	133	120	57		
	70.39	85	48	143	129	61		
	81.64	85	55	165	150	71		

m [kg]		DRM	
	s	71S12	71M12
R17	 2	9.8	11
R17	 3	10	11
RF: + -0.1 kg			


 →  **15**



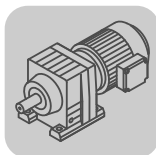
R 27

	M _a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M _{amax} [Nm]	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
R27 	3.37	79	2.3	6.9	6.3	3.0	8.9	8.9	4.3	13	13	7.6	23	16	8.6	26	23
	4.00	85	2.7	8.2	7.4	3.5	11	11	5.1	15	15	9.0	27	20	10	30	27
	4.27	87	2.9	8.8	7.9	3.8	11	11	5.4	16	16	9.6	29	21	11	33	29
	5.00	95	3.4	10	9.3	4.4	13	13	6.3	19	19	11	34	24	13	38	34
	5.60	99	3.8	11	10	4.9	15	15	7.1	21	21	13	38	27	14	43	38
	6.59	106	4.5	14	12	5.8	17	17	8.4	25	25	15	44	32	17	50	45
	7.63	112	5.2	16	14	6.7	20	20	9.7	29	29	17	51	37	19	58	52
	8.16	116	5.6	17	15	7.2	22	22	10	31	31	18	55	40	21	62	56
	9.41	122	6.4	19	17	8.3	25	25	12	36	36	21	63	46	24	72	64
	10.13	122	6.9	21	19	8.9	27	27	13	39	39	23	68	49	26	77	69
	11.86	129	8.1	24	22	10	31	31	15	45	45	27	80	58	30	90	81
	13.28	130	9.1	27	25	12	35	35	17	51	51	30	89	65	34	101	91
	15.63	130	11	32	29	14	41	41	20	60	60	35	105	76	40	119	107
	18.08	130	12	37	34	16	48	48	23	69	69	41	122	88	46	138	124
	19.35	130	13	40	36	17	51	51	25	74	74	43	130	94	49	147	132
	22.32	130	15	46	41	20	59	59	28	85	85	50	150	109	57	170	153
	26.09	130	18	53	48	23	69	69									
	28.37	130	19	58	53	25	75	75									
R27 	24.47	130	17	50	45	21	64	64	31	92	92	54	163	118	61	184	165
	28.78	130	19	58	53	25	75	75	36	108	108	64	192	139	72	215	194
	32.47	130	22	66	59	28	85	85	41	122	122	72	215	157	81	240	215
	36.79	130	25	75	67	32	96	96	46	138	138	82	240	177	92		245
	39.25	130	26	79	72	34	102	102	49	148	148	87		189	98		
	44.90	130	30	91	82	39	117	117	56	169	169	100		215	113		
	48.17	130	33	98	88	42	125	125	60	181	181	107		230	121		
	55.87	130	38	113	102	48	145	145	70	210	210	124			140		
	61.30	130	41	124	112	53	160	160	77	230	230	136			154		
	69.47	130	47	141	127	60	181	181	87			154			174		
	74.11	130	50	150	136	64	193	193	93			164			186		
	84.78	130	57	172	155	74	220	220	106			188			210		
	90.96	130	61	184	167	79	235	235	114			200			225		
	105.49	130	71	210	193	92			132			230					
	123.91	130	84	250	225	108											
	135.09	130	91		245	117											

m [kg]		71S12	71M12	DRM 90M12	100M12	100L12
R27		11	12	21	29	32
R27		11	12	21	29	32

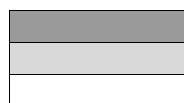
RF: + 0.1 kg

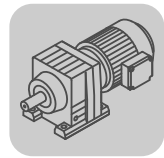



R 27R17

M_a [Nm]			DRM					
	i	M_{amax}	S1	71S12	S1	S1	71M12	S1
		[Nm]	0.7	S3	/V	0.9	S3	/V
				2.1	1.9		2.7	2.7
R27R17  2 	90	130	60	180	163	77	230	230
	104	130	69	205	188	89		
	118	130	79	235	210	101		
	135	130	90		240	116		
	156	130	104			134		
	179	130	119			154		
	203	130	135			174		
	227	130	151			195		
	256	130	171			215		
	290	130	193			245		
	329	130	215					
R27R17  3 	94	130	62	186	168	80	235	235
	110	130	72	215	197	93		
	124	130	82	245	220	105		
	141	130	93		250	119		
	150	130	99			127		
	166	130	109			141		
	177	130	117			150		
	200	130	132			169		
	229	130	151			194		
	259	130	171			215		
	296	130	195			250		
	339	130	220					
	387	130	255					

m [kg]		DRM	
	s	71S12	71M12
R27R17	 2 	13	15
R27R17	 2 	14	15
R27R17	 3 	14	15
R27R17	 3 	14	15
RF: + -0.1 kg			


 →  **15**

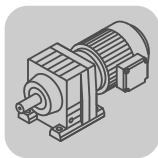


R 37

	M _a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M _{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
R37  2	3.41	112	2.3	7.0	6.3	3.0	9.0	9.0	4.3	13	13	7.7	23	17	8.7	26	23
	4.05	122	2.8	8.3	7.5	3.6	11	11	5.1	15	15	9.1	27	20	10	31	28
	4.32	126	3.0	8.9	8.0	3.8	11	11	5.5	16	16	9.7	29	21	11	33	30
	5.06	135	3.5	10	9.4	4.4	13	13	6.4	19	19	11	34	25	13	39	35
	5.67	142	3.9	12	11	5.0	15	15	7.2	22	22	13	38	28	14	43	39
	6.67	144	4.6	14	12	5.9	18	18	8.5	25	25	15	45	33	17	51	46
	7.97	156	5.4	16	15	7.0	21	21	10	30	30	18	54	39	20	61	54
	9.47	167	6.5	19	18	8.3	25	25	12	36	36	21	64	46	24	72	65
	10.11	170	6.9	21	19	8.9	27	27	13	38	38	23	68	49	26	77	69
	11.83	183	8.1	24	22	10	31	31	15	45	45	27	80	58	30	90	81
	13.25	190	9.1	27	25	12	35	35	17	50	50	30	89	65	34	101	91
	15.60	200	11	32	29	14	41	41	20	59	59	35	105	76	40	119	107
	18.05	200	12	37	33	16	48	48	23	69	69	41	122	88	46	137	123
	19.31	200	13	40	36	17	51	51	25	74	74	43	130	94	49	147	132
	22.27	200	15	46	41	20	59	59	28	85	85	50	150	109	57	170	152
	26.03	185	18	53	48	23	69	69									
	28.32	200	19	58	53	25	75	75									
R37  3	24.42	200	16	49	45	21	64	64	31	92	92	54	163	118	61	184	165
	28.73	200	19	58	53	25	75	75	36	108	108	64	191	139	72	215	194
	32.40	200	22	66	59	28	84	84	41	122	122	72	215	156	81	240	215
	36.72	200	25	74	67	32	96	96	46	138	138	81	240	177	92	275	245
	39.17	200	26	79	72	34	102	102	49	147	147	87	260	189	98	290	260
	44.81	200	30	91	82	39	117	117	56	169	169	99	295	215	112	335	300
	48.08	200	32	97	88	42	125	125	60	181	181	107	315	230	121	360	320
	55.76	200	38	113	102	48	145	145	70	205	205	124	370	265	140		375
	61.18	200	41	124	112	53	159	159	77	230	230	136		295	153		
	69.33	200	47	140	127	60	181	181	87	260	260	154		330	174		
	73.96	200	50	150	136	64	193	193	93	275	275	164		355	185		
	84.61	200	57	171	155	73	220	220	106	315	315	188			210		
	90.77	200	61	184	166	79	235	235	114	340	340	200			225		
	105.28	200	71	210	193	91	270	270	132	395	395	230			260		
	123.66	200	83	250	225	107	320	320									
	134.82	200	91	270	245	117	350	350									

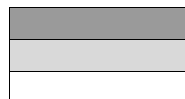
m [kg]		71S12	71M12	DRM 90M12	100M12	100L12
R37	 2	17	18	27	34	37
R37	 3	17	18	27	35	38
RF: + 1.5 kg						

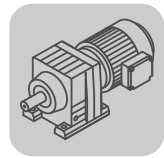
	→  15


R 37R17

M_a [Nm]			DRM					
	i	M_{amax}	S1	71S12	S1	S1	71M12	S1
		[Nm]	0.7	S3	/V	0.9	S3	/V
				2.1	1.9		2.7	2.7
R37R17  2  2	90	200	60	180	163	77	230	230
	104	200	69	205	188	89	265	265
	127	200	85	250	225	109	325	325
	135	200	90	270	240	116	345	345
	156	200	104	310	280	134		
	179	200	119	355	320	154		
	202	200	135		365	173		
	226	200	151			194		
	265	200	177			225		
	289	200	193			245		
	328	200	215			280		
	378	200	250			320		
	439	200	290			375		
	498	200	325					
R37R17  2  3	577	200	380					
R37R17  3  2	94	200	62	186	168	80	235	235
	110	200	72	215	197	93	275	275
	124	200	82	245	220	105	315	315
	130	200	86	255	230	110	330	330
	150	200	99	295	265	127	380	380
	172	200	113	340	305	146		
	199	200	131	390	355	169		
	228	200	150			193		
	259	200	171			215		
	296	200	195			250		
	338	200	220			285		
	387	200	255			325		
	431	200	280			365		
	508	200	330					
	566	200	370					

m [kg]		DRM	
	s	71S12	71M12
R37R17	 2  2	19	20
R37R17	 2  3	19	21
R37R17	 3  2	19	21
R37R17	 3  3	20	21
RF: + 1.5 kg			


 →  15

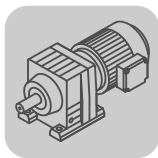


R 47

	M _a [Nm]		DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
R47 	3.83	144	2.6	7.9	7.1	3.4	10	10	4.9	15	15	8.6	26	19	9.7	29	26
	4.34	146	3.0	8.9	8.0	3.8	11	11	5.5	17	17	9.7	29	21	11	33	30
	4.85	150	3.3	9.9	9.0	4.3	13	13	6.2	18	18	11	33	24	12	37	33
	5.64	155	3.9	12	10	5.0	15	15	7.2	21	21	13	38	28	14	43	39
	6.00	156	4.1	12	11	5.3	16	16	7.6	23	23	13	40	29	15	46	41
	6.96	159	4.8	14	13	6.1	18	18	8.8	26	26	16	47	34	18	53	48
	7.76	163	5.3	16	14	6.8	20	20	9.8	30	30	17	52	38	20	59	53
	8.01	205	5.5	16	15	7.0	21	21	10	30	30	18	54	39	20	61	55
	9.07	220	6.2	19	17	8.0	24	24	12	35	35	20	61	44	23	69	62
	10.15	230	6.9	21	19	8.9	27	27	13	39	39	23	68	50	26	77	69
	11.79	245	8.1	24	22	10	31	31	15	45	45	26	79	58	30	90	81
	12.54	250	8.6	26	23	11	33	33	16	48	48	28	84	61	32	95	86
	14.56	265	9.9	30	27	13	38	38	18	55	55	33	98	71	37	111	99
	16.22	275	11	33	30	14	43	43	21	62	62	36	109	79	41	123	111
	17.89	290	12	37	33	16	47	47	23	68	68	40	120	87	45	136	122
	19.27	295	13	40	36	17	51	51	24	73	73	43	130	94	49	147	132
	21.81	300	15	45	40	19	57	57	28	83	83	49	147	106	55	166	149
	23.28	300	16	48	43	20	61	61	30	89	89	52	157	114	59	177	159
	26.74	300	18	55	50	23	70	70	34	102	102	60	180	131	68	200	183
	31.12	220	21	64	58	27	82	82									
	33.79	240	23	69	63	30	89	89									
R47 	23.59	300	16	48	43	20	61	61	30	89	89	52	157	114	59	177	159
	26.70	300	18	54	49	23	70	70	33	100	100	59	178	129	67	200	180
	29.88	300	20	61	55	26	78	78	37	112	112	66	199	144	75	220	200
	34.73	300	23	70	64	30	90	90	44	131	131	77	230	167	87	260	230
	36.93	300	25	75	68	32	96	96	46	139	139	82	245	178	93	275	245
	42.87	300	29	87	79	37	112	112	54	161	161	95	285	205	107	320	285
	47.75	300	32	97	87	41	124	124	60	180	180	106	315	230	120	355	320
	52.69	300	36	107	97	46	137	137	66	198	198	117	350	250	132	395	355
	56.73	300	38	115	104	49	148	148	71	210	210	126	375	270	142	425	380
	64.21	300	43	130	118	56	167	167	81	240	240	142	425	305	161	480	430
	68.54	300	46	139	126	59	178	178	86	255	255	152	455	330	172	515	460
	76.23	300	51	154	140	66	199	199	96	285	285	169	505	365	191	570	510
	84.90	300	57	172	156	74	220	220	106	315	315	188	560	405	210		570
	93.68	300	63	190	172	81	240	240	117	350	350	205		450	230		
	100.86	300	68	200	185	88	260	260	126	375	375	220		485	250		
	114.17	300	77	230	205	99	295	295	143	425	425	250		550	285		
	121.87	300	82	245	220	106	315	315	153	455	455	270		585	305		
	139.99	300	95	280	255	122	360	360	176	525	525	310			350		
	162.94	300	110	330	295	141	420	420									
	176.88	300	119	355	320	154	460	460									

m [kg]		DRM					
	s	71S12	71M12	90M12	100M12	100L12	
R47		20	21	31	38	41	
R47		20	22	32	39	42	
RF: + 0.1 kg							




R 47R37

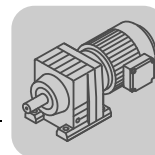
M_a [Nm]			DRM														
i	M_{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
R47R37 	98	300	65	196	177	84	250	250	121	360	360	210		465	240		
	109	300	73	215	197	93	280	280	135	405	405	235		515	270		
	129	300	86	255	230	111	330	330	160	475	475	280			315		
	154	300	103	305	275	132	395	395	191	570	570	335			380		
	182	300	121	360	325	156	465	465	225			395			450		
	195	300	130	390	350	167	500	500	240			425			480		
	228	300	152	455	410	196	585	585	280			495			560		
	255	300	170	510	460	215			315			555					
	301	300	200		540	255			370								
	348	300	230			295			430								
	372	300	245			315			460								
	429	300	285			365			530								
	502	300	330			430											
	546	300	360			465											
R47R37 	471	300	310			395			575								
	554	300	365			465											
	624	300	410			525											
	708	300	465			595											
	755	300	495														
	863	300	565														
R47R37 	344	300	225			290			420								
	408	300	265			345			495								
	436	300	285			365			530								
	510	300	335			430											
	572	300	375			480											
	673	300	440			570											
	804	300	525														

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
R47R37		31	32	41	49	52	
R47R37		31	32	41	49	52	
R47R37		31	32	42	49	52	
R47R37		32	33	42	49	52	

RF: + 0.1 kg



→ 15

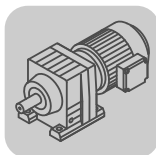


R 57

	M _a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M _{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
R57 	4.39	280							5.6	17	17	9.9	30	21	11	33	30
	5.05	305	3.5	10	9.4	4.4	13	13	6.4	19	19	11	34	25	13	38	35
	5.82	320	4.0	12	11	5.1	15	15	7.4	22	22	13	39	28	15	44	40
	6.41	335	4.4	13	12	5.6	17	17	8.1	24	24	14	43	31	16	49	44
	7.53	350	5.1	15	14	6.6	20	20	9.6	29	29	17	51	37	19	57	51
	7.97	355	5.4	16	15	7.0	21	21	10	30	30	18	54	39	20	61	54
	9.06	375	6.2	19	17	8.0	24	24	11	34	34	20	61	44	23	69	62
	9.35	370	6.4	19	17	8.2	25	25	12	36	36	21	63	46	24	71	64
	10.79	390	7.4	22	20	9.5	28	28	14	41	41	24	73	53	27	82	74
	11.88	405	8.1	24	22	10	31	31	15	45	45	27	80	58	30	90	81
	13.95	430	9.5	29	26	12	37	37	18	53	53	31	94	68	35	106	95
	14.77	435	10	30	27	13	39	39	19	56	56	33	99	72	37	112	101
	16.79	450	11	34	31	15	44	44	21	64	64	38	113	82	43	128	115
	18.60	450	13	38	34	16	49	49	24	71	71	42	125	91	47	142	127
	21.93	450	15	45	41	19	58	58	28	83	83	49	148	107	56	167	150
	24.99	450	17	51	46	22	66	66	32	95	95	56	168	122	63	190	171
	26.31	450	18	54	49	23	69	69	33	100	100	59	177	128	67	200	180
R57 	26.97	450	18	55	49	23	70	70	34	101	101	60	179	130	68	200	182
	30.18	450	20	61	55	26	79	79	38	114	114	67	200	146	76	225	200
	35.07	450	24	71	64	30	91	91	44	132	132	78	230	169	88	260	235
	37.30	450	25	76	68	32	97	97	47	140	140	83	245	180	94	280	250
	43.30	450	29	88	79	38	113	113	54	163	163	96	285	205	109	325	290
	48.23	450	33	98	88	42	126	126	60	181	181	107	320	230	121	360	325
	53.22	450	36	108	98	46	139	139	67	200	200	118	350	255	133	400	355
	57.29	450	39	116	105	50	149	149	72	215	215	127	380	275	144	430	385
	64.85	450	44	131	119	56	169	169	81	240	240	144	430	310	163	485	435
	69.23	450	47	140	127	60	180	180	87	260	260	154	460	330	174	520	465
	80.55	450	54	163	148	70	205	205	101	300	300	179	535	385	200	605	540
	89.71	450	61	182	164	78	230	230	112	335	335	199	595	430	220	670	605
	98.99	450	67	200	181	86	255	255	124	370	370	215	655	475	245	740	665
	106.58	450	72	215	195	93	275	275	134	400	400	235	705	510	265	800	715
	120.63	450	81	240	220	105	310	310	151	450	450	265	800	580	300		810
	128.77	450	87	260	235	112	335	335	161	480	480	285	850	620	320		860
	147.92	450	100	295	270	128	385	385	185	555	555	325		710	370		
	172.17	450	116	345	315	149	445	445									
	186.89	450	126	375	340	162	485	485									

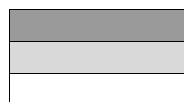
m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
R57	25	25	26	36	43	46
R57	26	26	27	37	44	47
RF: + 3.4 kg / RM: + 15.4 kg						

→ 15

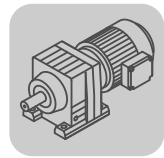

R 57R37

M_a [Nm]			DRM														
i	M_{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
R57R37  2 	134	450	89	265	240	115	340	340	166	495	495	290	880	635	330		890
	146	450	97	290	260	125	375	375	181	540	540	315		695	360		
	159	450	106	315	285	136	405	405	197	590	590	345		755	390		
	188	450	125	375	340	161	480	480	230	695	695	410		890	465		
	220	450	147	440	395	189	565	565	270	810	810	480			545		
	246	450	164	490	445	210	630	630	300			535			605		
	262	450	175	520	470	220	670	670	320			570			645		
	290	450	193	580	525	245	745	745	355			635			715		
	324	450	215	645	585	275	830	830	400			710			800		
	359	450	235	715	645	305			440			785			880		
R57R37  2 	410	450	270	810	730	345			500			880					
	454	450	295	890	810	380			555								
	534	450	350			450			650								
	603	450	395			510			735								
	683	450	450			575			830								
	805	450	530			680											
	894	450	585			755											
	1027	450	675			870											
	1164	450	765														
	1342	450	880														
R57R37  3 	142	450	94	280	250	120	360	360	174	520	520	305		665	345		
	164	450	108	320	290	139	415	415	200	600	600	355		770	400		
	187	450	123	365	330	158	475	475	225	685	685	400		880	455		
	215	450	142	425	380	182	545	545	260	785	785	465			525		
	241	450	159	475	430	200	610	610	290	880	880	520			585		
	273	450	180	535	485	230	690	690	330			590			665		
	319	450	210	630	570	270	810	810	390			690			780		
	357	450	235	705	635	300			435			770			870		
	471	450	310		840	395			575								
	537	450	350			450			655								
	604	450	395			510			735								
	678	450	445			570			820								
	782	450	515			660											
	1034	450	680			870											
	1189	450	780														

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
R57R37	 2 	36	37	46	54	57	
R57R37	 2 	36	37	46	54	57	
R57R37	 3 	37	38	47	54	57	
R57R37	 3 	37	38	47	55	58	
RF: + 3.4 kg / RM: + 15.4 kg							



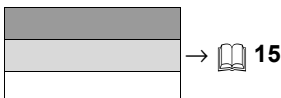
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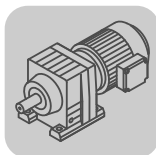


R 67

	M _a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M _{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
R67  2	4.29	270							5.4	16	16	9.6	29	21	11	33	29
	4.93	290	3.4	10	9.1	4.3	13	13	6.3	19	19	11	33	24	13	38	34
	5.70	310	3.9	12	11	5.0	15	15	7.2	22	22	13	38	28	14	43	39
	6.27	330	4.3	13	12	5.5	17	17	8.0	24	24	14	42	31	16	48	43
	7.36	370	5.0	15	14	6.5	19	19	9.3	28	28	17	50	36	19	56	50
	7.79	380	5.3	16	14	6.8	21	21	9.9	30	30	17	52	38	20	59	53
	8.70	440							11	33	33	20	59	42	22	66	59
	10.00	470	6.8	20	19	8.8	26	26	13	38	38	22	67	49	25	76	68
	11.54	500	7.9	24	21	10	30	30	15	44	44	26	78	56	29	88	79
	12.70	520	8.7	26	24	11	33	33	16	48	48	29	86	62	32	97	87
	14.91	550	10	31	28	13	39	39	19	57	57	33	100	73	38	114	102
	15.79	560	11	32	29	14	42	42	20	60	60	35	106	77	40	120	108
	17.95	590	12	37	33	16	47	47	23	68	68	40	121	88	46	137	123
	19.89	600	14	41	37	17	52	52	25	76	76	45	134	97	50	151	136
	23.44	560	16	48	43	21	62	62	30	89	89	53	158	114	59	178	160
	26.72	540	18	55	50	23	70	70	34	102	102	60	180	130	68	200	183
	28.13	540	19	58	52	25	74	74	36	107	107	63	189	137	71	210	192
R67  3	28.83	520	19	58	53	25	75	75	36	108	108	64	192	139	72	215	195
	32.27	540	22	65	59	28	84	84	40	121	121	72	210	156	81	240	215
	37.50	570	25	76	69	33	98	98	47	141	141	83	245	181	94	280	250
	39.88	580	27	81	73	35	104	104	50	150	150	88	265	192	100	295	265
	46.29	600	31	94	85	40	121	121	58	174	174	103	305	220	116	345	310
	51.56	600	35	104	94	45	134	134	65	194	194	114	340	245	129	385	345
	56.89	600	38	115	104	49	148	148	71	210	210	126	375	270	143	425	380
	61.26	600	41	124	112	53	160	160	77	230	230	136	405	295	154	460	410
	69.75	600	47	141	128	61	182	182	87	260	260	155	460	335	175	520	470
	74.17	600	50	150	136	64	193	193	93	275	275	165	490	355	186	555	500
	86.11	600	58	174	158	75	220	220	108	320	320	191	570	415	215	645	580
	95.91	600	65	194	176	83	245	245	120	360	360	210	635	460	240	720	645
	105.83	600	71	210	194	92	275	275	133	395	395	230	700	510	265	795	710
	113.94	600	77	230	205	99	295	295	143	425	425	250	755	545	285	850	765
	128.97	600	87	260	235	112	335	335	162	485	485	285	850	620	320	970	870
	137.67	600	93	275	250	119	355	355	173	515	515	305	910	660	345	1030	920
	158.14	600	107	320	285	137	410	410	198	590	590	350	1050	760	395	1180	1060
	184.07	600	124	370	335	160	475	475									
	199.81	600	135	400	365	173	520	520									

m [kg]		71S12	71M12	DRM 90M12	100M12	100L12
R67	 2	31	33	42	50	53
R67	 3	32	34	43	51	54
RF: + 3.2 kg / RM: + 19.0 kg						



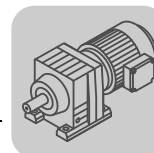

R 67R37

M_a [Nm]			DRM														
i	M_{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
R67R37  2 	159	600	106	315	285	136	405	405	197	590	590	345	1040	755	390	1180	1060
	181	600	121	360	325	155	465	465	220	670	670	395	1190	860	445		
	201	600	134	400	360	172	515	515	245	745	745	440		950	495		
	235	600	157	470	425	200	600	600	290	870	870	515		1110	580		
	264	600	176	525	475	225	675	675	325	980	980	575			650		
	310	600	205	620	560	265	795	795	380	1150	1150	675			765		
	359	600	235	715	645	305	920	920	440			785			880		
	384	600	255	765	695	325	980	980	475			840			950		
	443	600	295	880	800	375	1130	1130	545			970			1090		
R67R37  2 	486	600	320	960	860	410			590			1050			1180		
	571	600	375	1120	1020	480			695								
	644	600	420		1150	545			785								
	730	600	480			615			890								
	891	600	585			750			1090								
	956	600	630			810			1170								
	1109	600	730			930											
	1379	600	900			1160											
	1471	600	960														
R67R37  3 	1629	600	1070														
	1805	600	1180														
	158	600	104	310	280	134	400	400	193	580	580	340	1020	740	385	1160	1040
	176	600	116	345	310	149	445	445	215	645	645	380	1140	820	430		1150
	200	600	132	395	355	169	505	505	240	730	730	430		940	485		
	234	600	154	460	415	198	590	590	285	850	850	505		1100	570		
	261	600	172	515	465	220	660	660	315	950	950	565			635		
	294	600	194	580	525	245	745	745	355	1070	1070	635			715		
	344	600	225	680	615	290	870	870	420			740			840		
	388	600	255	765	690	325	980	980	470			840			940		
	438	600	285	860	780	370	1110	1110	535			940			1070		
	495	600	325	970	880	415			605			1070					
	574	600	375	1130	1020	485			700								
	646	600	425		1150	545			790								
	750	600	490			635			910								
	836	600	550			705			1020								
	1106	600	725			930											
	1259	600	820			1060											
	1432	600	940														
	1652	600	1080														

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
R67R37  2 		42	43	53	60	63	
R67R37  2 		42	44	53	60	63	
R67R37  3 		43	44	53	61	64	
R67R37  3 		43	44	54	61	64	

RF: + 3.2 kg / RM: + 19.0 kg

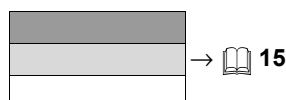
→ 15

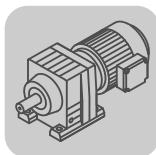


R 77

M _a [Nm]			DRM																				
i	M _{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0	2.9	8.7	7.2	3.6	10.8	8.7
R77  2	5.31	510							6.7	20	20	12	36	26	13	40	36	15	45	37	19	56	45
	5.99	540							7.6	23	23	13	40	29	15	46	41	17	51	42	21	63	51
	6.79	580	4.6	14	13	6.0	18	18	8.6	26	26	15	46	33	17	52	46	19	58	48	24	72	58
	7.74	610	5.3	16	14	6.8	20	20	9.8	29	29	17	52	38	20	59	53	22	66	54	27	82	66
	8.59	630	5.9	18	16	7.5	23	23	11	33	33	19	58	42	22	65	59	24	73	60	30	91	73
	9.64	630							12	37	37	22	65	47	24	73	66	27	82	68	34	102	82
	10.88	660							14	41	41	24	73	53	28	83	74	31	92	76	38	115	92
	12.33	690	8.4	25	23	11	32	32	16	47	47	28	83	60	31	94	84	35	105	87	43	130	105
	14.05	720	9.6	29	26	12	37	37	18	53	53	32	95	69	36	107	96	40	119	99	49	148	119
	15.60	740	11	32	29	14	41	41	20	59	59	35	105	76	40	119	107	44	132	110	55	164	132
	17.82	780	12	37	33	16	47	47	23	68	68	40	120	87	45	136	122	50	151	125	63	188	151
	18.80	780	13	39	35	17	50	50	24	72	72	42	127	92	48	143	128	53	160	132	66	198	160
R77  3	21.43	820	15	44	40	19	56	56	27	82	82	48	144	105	54	163	146	61	182	151	75	225	182
	23.37	820	16	48	43	21	62	62	30	89	89	52	157	114	59	178	160	66	198	164	82	245	198
	25.23	780							32	95	95	56	168	122	63	190	170	71	210	175	88	260	210
	29.00	820	20	59	53	25	76	76	36	109	109	64	193	140	73	215	196	81	240	200	101	300	240
	33.47	820	23	68	61	29	87	87	42	126	126	74	220	161	84	250	225	94	280	230	116	345	280
	36.83	820	25	75	67	32	96	96	46	139	139	82	245	178	92	275	245	103	305	255	128	380	305
	43.26	820	29	88	79	38	113	113	54	163	163	96	285	205	108	325	290	121	360	300	150	450	360
	45.81	820	31	93	84	40	119	119	57	172	172	102	300	220	115	340	305	128	380	315	159	475	380
	52.07	820	35	105	95	45	136	136	65	196	196	116	345	250	131	390	350	146	435	360	181	540	435
	57.68	820	39	117	106	50	150	150	72	215	215	128	380	275	145	430	385	161	480	400	200	600	480
	65.77	820	44	133	121	57	171	171	82	245	245	146	435	315	165	490	440	184	550	455	225	685	550
	77.24	820	52	156	142	67	200	200	97	290	290	171	510	370	194	580	520	215	645	535	265	800	645
	81.80	820	55	166	150	71	210	210	103	305	305	181	540	390	205	615	550	225	685	565	280	850	685
	92.97	820	63	188	170	81	240	240	117	345	345	205	615	445	230	695	625	260	780	645	320	960	780
	102.99	820	70	205	189	89	265	265	129	385	385	225	685	495	255	770	695	285	860	715	355	1070	860
	121.42	820	82	245	220	105	315	315	152	455	455	265	800	585	300	910	810	335	1010	840	420	1260	1010
	138.39	820	93	280	250	120	360	360	174	520	520	305	920	665	345	1040	930	385	1160	960	480	1440	1160
	145.67	820	98	295	265	126	375	375	183	545	545	320	960	700	365	1090	980	405	1220	1010	505	1510	1220
	166.59	820	112	335	305	145	430	430	205	625	625	365	1100	800	415	1250	1120						
	195.24	820	132	395	355	169	505	505															

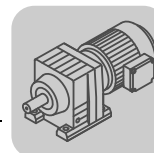
m [kg]		DRM							
	s	71S12	71M12	90M12	100M12	100L12	132S12	132M12	
R77	 2	38	40	48	56	59	74	87	
R77	 3	39	41	50	57	60	75	88	
RF: + 5.7 kg / RM: + 30.7 kg									




R 77R37

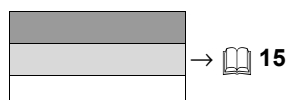
M_a [Nm]			DRM														
	i	M_{amax}	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
R77R37 2 2	186	820	124	370	335	160	475	475	230	690	690	405	1220	880	460	1380	1240
	221	820	147	440	400	190	565	565	270	820	820	480	1450	1050	545		1470
	236	820	157	470	425	200	605	605	290	870	870	515	1550	1120	580		1570
	276	820	184	550	495	235	710	710	340	1020	1020	600		1310	680		
	310	820	205	620	560	265	795	795	380	1150	1150	675		1470	765		
	365	820	240	730	660	310	930	930	450	1350	1350	795			900		
	422	820	280	840	760	360	1080	1080	520	1560	1560	920			1040		
	451	820	300	900	810	385	1160	1160	555			980			1110		
	520	820	345	1040	940	445	1330	1330	640			1130			1280		
R77R37 2 3	571	820	375	1120	1020	480	1450	1450	695			1230			1390		
	671	820	440	1320	1200	565			820			1450					
	757	820	495	1490	1350	640			920			1630					
	858	820	565		1530	725			1050								
	915	820	600		1630	775			1110								
	1047	820	685			880			1280								
	1124	820	740			950			1370								
	1303	820	850			1100			1590								
	1430	820	940			1210											
	1620	820	1060			1370											
	1728	820	1130			1460											
	1977	820	1300														
	2121	820	1390														
	2460	820	1620														
R77R37 3 2	149	820	98	290	265	126	375	375	182	545	545	320	960	700	360	1090	980
	169	820	111	330	300	143	425	425	205	620	620	365	1090	795	410	1240	1110
	197	820	130	385	350	167	500	500	240	720	720	425	1270	920	480	1440	1290
	224	820	148	440	400	190	565	565	270	820	820	485	1450	1050	545		1470
	260	820	171	510	465	220	660	660	315	950	950	560		1220	635		
	289	820	190	570	515	240	730	730	350	1060	1060	625		1360	705		
	327	820	215	645	580	275	830	830	400	1200	1200	705		1530	800		
	373	820	245	735	665	315	940	940	455	1360	1360	800			910		
	436	820	285	860	775	365	1100	1100	530	1600	1600	940			1060		
	488	820	320	960	870	410	1240	1240	595			1050			1190		
	560	820	365	1100	1000	470	1420	1420	685			1210			1370		
	646	820	425	1270	1150	545			790			1390			1580		
	731	820	480	1440	1300	615			890			1580					
	821	820	540	1620	1460	695			1000								
	940	820	615			795			1150								
	1084	820	710			910			1320								
	1218	820	800			1030			1490								
	1394	820	910			1180											
	1580	820	1040			1330											
	1822	820	1200			1540											
	2070	820	1360														
	2345	820	1540														

m [kg]		DRM					
	s	71S12	71M12	90M12	100M12	100L12	
R77R37	2 2	47	48	57	65	68	
R77R37	2 3	47	48	58	65	68	
R77R37	3 2	48	49	58	66	69	
R77R37	3 3	48	49	59	66	69	
RF: + 5.7 kg / RM: + 30.7 kg							

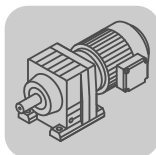


R 87

M _a [Nm]			DRM																	
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0	2.9	8.7	7.2	3.6	10.8	8.7
R87 2	7.13	1070				9.0	27	27	16	48	35	18	54	49	20	61	50	25	75	61
	8.22	1160				10	31	31	18	55	40	21	63	56	23	70	58	29	87	70
	9.14	1210				12	35	35	21	62	45	23	70	62	26	78	64	32	96	78
	13.33	1280				17	51	51	30	90	65	34	101	91	38	113	94	47	141	113
	15.35	1340				19	58	58	34	103	75	39	117	105	43	130	108	54	162	130
	17.08	1390				22	65	65	38	115	83	43	130	117	48	145	120	60	180	145
	19.10	1440	17	50	50	24	73	73	43	129	93	48	145	131	54	162	134	67	200	162
	21.51	1500	19	57	57	27	82	82	48	145	105	55	164	147	61	183	151	76	225	183
	23.40	1550	21	62	62	30	89	89	53	158	114	59	178	160	66	199	164	82	245	199
	27.84	1550	24	73	73	35	106	106	63	188	136	71	210	190	79	235	196	98	290	235
	31.40	1550	28	83	83	40	120	120	70	210	153	80	235	210	89	265	220	110	330	265
34.40	1500	30	91	91	44	131	131	77	230	168	87	260	235	97	290	240	121	360	290	
R87 3	27.88	1500				35	105	105	62	186	134	70	205	188	78	230	194	97	290	230
	32.66	1550				41	123	123	72	215	157	82	245	220	91	270	225	113	340	270
	36.84	1550				46	139	139	82	245	178	92	275	245	103	305	255	128	380	305
	41.74	1550	36	109	109	52	157	157	93	275	200	105	310	280	117	350	285	145	430	350
	47.58	1550	41	124	124	60	179	179	106	315	225	119	355	320	133	395	330	165	495	395
	52.82	1550	46	138	138	66	199	199	117	350	250	132	395	355	148	440	365	183	550	440
	60.35	1550	52	157	157	76	225	225	134	400	290	151	450	405	169	505	415	205	625	505
	63.68	1550	55	166	166	80	235	235	141	420	305	160	475	425	178	530	440	220	660	530
	72.57	1550	63	189	189	91	270	270	161	480	345	182	545	485	200	605	500	250	755	605
	81.92	1550	71	210	210	103	305	305	182	545	395	205	615	550	225	685	565	280	850	685
	93.38	1550	81	240	240	117	350	350	205	620	450	230	700	630	260	780	645	320	970	780
	103.65	1550	90	265	265	130	385	385	225	685	495	255	775	695	285	860	715	355	1070	860
	118.43	1550	103	305	305	148	445	445	260	785	570	295	890	795	330	990	820	410	1230	990
	124.97	1550	108	325	325	157	470	470	275	830	600	310	940	840	345	1040	860	430	1300	1040
	142.41	1550	124	370	370	179	535	535	315	940	685	355	1070	960	395	1190	980	490	1480	1190
	155.34	1550	135	400	400	195	580	580	340	1030	745	385	1160	1040	430	1300	1070	535	1610	1300
	181.77	1550	158	470	470	225	680	680	400	1200	870	455	1360	1220	505	1520	1260	630	1890	1520
205.71	1550	179	535	535	255	770	770	455	1360	990	515	1540	1380	575	1720	1420	710	2140	1720	
216.54	1550	188	560	560	270	810	810	480	1440	1040	540	1620	1460	605	1810	1500	750	2250	1810	
246.54	1550	210	640	640	305	920	920	545	1640	1180	615	1850	1660							
m [kg]			DRM																	
	s		71M12			90M12			100M12			100L12			132S12			132M12		
R87			66			75			82			85			100			115		
R87			67			76			84			87			100			115		
RF: + 7.1 kg / RM: + 36.8 kg																				

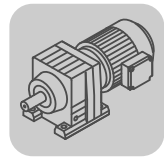


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R 87R57

	M_a [Nm]		DRM														
	i	M_{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
R87R57 2 2	195	1550	130	390	350	167	500	500	240	720	720	425	1280	920	480	1440	1300
	232	1550	155	460	420	199	595	595	285	860	860	505	1520	1100	570	1720	1540
	256	1550	171	510	460	215	655	655	315	950	950	560	1680	1210	630	1900	1700
	300	1550	200	600	540	255	770	770	370	1110	1110	655	1970	1420	740	2220	2000
	361	1550	240	720	650	305	920	920	445	1340	1340	790	2370	1710	890	2680	2400
	400	1550	265	800	720	340	1020	1020	495	1480	1480	870	2620	1900	990	2970	2660
	472	1550	310	940	850	400	1210	1210	580	1750	1750	1030		2240	1160		
	538	1550	355	1070	970	460	1380	1380	665	1990	1990	1170		2560	1330		
R87R57 2 3	580	1550	380	1140	1030	490	1470	1470	705	2120	2120	1250		2730	1410		
	649	1550	425	1280	1160	545	1640	1640	790	2380	2380	1400		3050	1580		
	754	1550	495	1490	1340	635	1910	1910	920	2760	2760	1630			1840		
	802	1550	525	1580	1430	675	2030	2030	980	2940	2940	1730			1960		
	931	1550	610	1840	1660	785	2360	2360	1130			2010			2270		
	1037	1550	680	2050	1850	870	2630	2630	1260			2240			2530		
	1145	1550	750	2260	2040	970	2910	2910	1400			2470			2800		
	1232	1550	810	2430	2200	1040			1500			2660			3010		
	1395	1550	910	2750	2490	1180			1700			3020					
	1489	1550	980	2940	2660	1260			1820								
	1733	1550	1140		3090	1460			2120								
	1930	1550	1270			1630			2360								
	2129	1550	1400			1800			2600								
	2595	1550	1710			2190											
	2770	1550	1820			2340											
	3182	1550	2090			2690											
	3703	1550	2440														
	4020	1550	2640														
R87R57 3 2	209	1550							255	765	765	450	1350	980	510	1530	1370
	236	1550	156	465	420	200	595	595	285	860	860	510	1530	1110	575	1730	1550
	268	1550	177	525	475	225	680	680	325	980	980	580	1740	1260	655	1960	1760
	305	1550	200	600	545	255	775	775	370	1110	1110	660	1980	1430	745	2230	2000
	352	1550	230	695	625	295	890	890	430	1290	1290	760	2280	1650	860	2580	2310
	398	1550	260	785	710	335	1010	1010	485	1460	1460	860	2580	1870	970	2920	2620
	456	1550	300	900	810	385	1150	1150	555	1670	1670	980	2960	2140	1110		3000
	525	1550	345	1030	930	440	1330	1330	640	1920	1920	1130		2470	1280		
	599	1550	390	1180	1070	505	1520	1520	730	2190	2190	1290		2810	1460		
	685	1550	450	1350	1220	580	1740	1740	830	2510	2510	1480			1670		
	776	1550	510	1530	1380	655	1970	1970	940	2840	2840	1680			1890		
	885	1550	580	1740	1580	745	2240	2240	1080			1910			2160		
	1008	1550	660	1990	1800	850	2560	2560	1230			2180			2460		
	1143	1550	750	2250	2040	960	2900	2900	1390			2470			2790		
	1303	1550	850	2570	2330	1100			1590			2820					
	1524	1550	1000	3010	2720	1290			1860								
	1737	1550	1140			1470			2120								

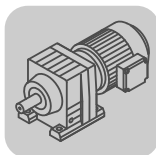
Table continued on next page. Weight table on next page.



M _a [Nm]			DRM															
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12			
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0	
R87R57  3  3	881	1550	570	1720	1550	735	2210	2210	1060				1880			2130		
	994	1550	645	1940	1750	830	2490	2490	1200				2120			2400		
	1961	1550	1270			1640			2370									
	2209	1550	1430			1840			2670									
	2518	1550	1630			2100			3040									
	2873	1550	1870			2400												
	3233	1550	2100			2700												
	3744	1550	2430															
4206	1550	2730																

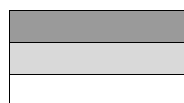
m [kg]		DRM									
	s	71S12		71M12		90M12		100M12		100L12	
R87R57	 2  2	82		83		93		100		105	
R87R57	 2  3	83		84		94		100		105	
R87R57	 3  2	83		85		95		100		105	
R87R57	 3  3	84		86		95		105		105	
RF: + 7.1 kg / RM: + 36.8 kg											



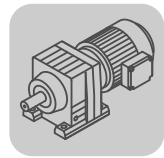

R 97

M_a [Nm]			DRM																	
	i	M_{amax}	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0	2.9	8.7	7.2	3.6	10.8	8.7
R97 	9.29	2030				12	35	35	21	63	45	24	71	63	26	79	65	33	98	79
	16.17	2400				21	62	62	36	109	79	41	123	110	46	137	114	57	170	137
	18.24	2500				23	69	69	41	123	89	46	139	125	52	155	128	64	192	155
	20.14	2610				26	77	77	45	136	98	51	153	138	57	171	142	71	210	171
	22.37	2720	20	59	59	28	85	85	50	151	109	57	170	153	63	190	157	79	235	190
	25.03	2830	22	66	66	32	95	95	56	169	122	64	191	171	71	210	176	88	260	210
	27.19	2560	24	72	72	35	104	104	61	183	133	69	205	186	77	230	191	96	285	230
	32.05	2560	28	84	84	41	122	122	72	215	156	81	240	215	91	270	225	113	335	270
R97 	37.13	3000				47	140	140	82	245	179	93	275	250	104	310	255	129	385	310
	42.78	3000				54	161	161	95	280	205	107	320	285	120	355	295	149	445	355
	47.58	3000				60	179	179	106	315	225	119	355	320	133	395	330	165	495	395
	53.21	3000	46	139	139	67	200	200	118	350	255	133	400	355	149	445	365	185	550	445
	59.92	3000	52	156	156	75	225	225	133	395	285	150	450	400	168	500	415	205	620	500
	65.21	3000	57	170	170	82	245	245	145	430	310	164	490	440	182	545	450	225	675	545
	72.17	3000				90	270	270	160	480	345	181	540	485	200	605	500	250	750	605
	83.15	3000				104	310	310	184	550	400	205	625	560	230	695	575	285	860	695
	92.48	3000				116	345	345	205	615	445	230	695	620	255	775	640	320	960	775
	103.44	3000	90	265	265	130	385	385	225	685	495	255	775	695	285	860	715	355	1070	860
	116.48	3000	101	300	300	146	435	435	255	775	560	290	870	785	325	970	800	400	1210	970
	126.75	3000	110	330	330	159	475	475	280	840	610	315	950	850	350	1060	880	440	1320	1060
	150.78	3000	131	390	390	189	565	565	330	1000	725	375	1130	1010	420	1260	1040	520	1570	1260
	170.02	3000	148	440	440	210	635	635	375	1130	810	425	1270	1140	475	1420	1180	590	1770	1420
	186.30	3000	162	485	485	230	700	700	410	1230	890	465	1400	1250	520	1560	1290	645	1940	1560
	216.28	3000	188	560	560	270	810	810	475	1430	1040	540	1620	1460	600	1810	1500	750	2250	1810
	241.25	3000	205	625	625	300	900	900	535	1600	1160	600	1810	1620	670	2020	1670	830	2510	2020
	255.71	3000	220	665	665	320	960	960	565	1700	1230	640	1920	1720	715	2140	1770	880	2660	2140
	289.74	3000	250	750	750	360	1080	1080	640	1920	1390	725	2170	1950						

m [kg]		DRM					
	s	71M12	90M12	100M12	100L12	132S12	132M12
R97	32	105	115	120	125	140	150
R97	33	110	115	125	125	140	155
RF: + 17.2 kg / RM: + 68.5 kg							



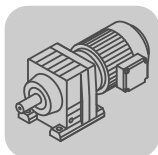
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R 97R57

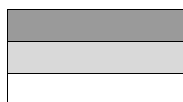
	M _a [Nm]		DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1 0.7	S3 2.1	S1 /V 1.9	S1 0.9	S3 2.7	S1 /V 2.7	S1 1.3	S3 3.9	S1 /V 3.9	S1 2.3	S3 6.9	S1 /V 5.0	S1 2.6	S3 7.8	S1 /V 7.0
R97R57 2 2	227	3000	151	450	410	195	580	580	280	840	840	495	1490	1080	560	1680	1510
	270	3000	180	540	485	230	690	690	330	1000	1000	590	1770	1280	665	2000	1800
	297	3000	198	590	535	250	760	760	365	1100	1100	650	1950	1410	735	2200	1980
	349	3000	230	695	630	295	890	890	430	1290	1290	760	2290	1660	860	2590	2320
	370	3000	245	740	665	315	950	950	455	1370	1370	810	2430	1760	910	2740	2460
	420	3000	280	840	760	360	1080	1080	520	1560	1560	920	2760	2000	1040	3120	2800
	466	3000	310	930	840	395	1190	1190	575	1730	1730	1020	3060	2220	1150	3460	3100
	549	3000	365	1090	990	470	1410	1410	680	2040	2040	1200	3600	2610	1360	4080	3660
	625	3000	415	1250	1130	535	1600	1600	770	2320	2320	1360	4100	2970	1540	4640	4160
R97R57 2 3	755	3000	495	1490	1350	635	1910	1910	920	2770	2770	1630	4900	3550	1840	5540	4970
	878	3000	575	1730	1570	740	2230	2230	1070	3220	3220	1900	5700	4130	2140		5780
	934	3000	615	1840	1670	790	2370	2370	1140	3420	3420	2020		4390	2280		
	1084	3000	710	2140	1930	910	2750	2750	1320	3970	3970	2340		5100	2650		
	1207	3000	795	2380	2150	1020	3060	3060	1470	4430	4430	2610		5680	2950		
	1434	3000	940	2830	2560	1210	3640	3640	1750	5260	5260	3100			3510		
	1623	3000	1060	3200	2900	1370	4120	4120	1980	5950	5950	3510			3970		
	1733	3000	1140	3420	3090	1460	4400	4400	2120			3750			4240		
	2016	3000	1320	3980	3600	1700	5120	5120	2460			4360			4930		
	2245	3000	1470	4430	4010	1900	5700	5700	2740			4860			5490		
	2668	3000	1750	5270	4770	2260			3260			5770					
	3019	3000	1980	5960	5400	2550			3690								
	3702	3000	2430			3130			4530								
	4309	3000	2830			3650											
	4678	3000	3080			3960											
R97R57 3 2	209	3000							255	765	765	450	1350	980	510	1530	1370
	234	3000							285	850	850	505	1520	1100	570	1710	1540
	249	3000	164	490	445	210	630	630	300	910	910	535	1610	1170	605	1820	1640
	296	3000	195	585	525	250	750	750	360	1080	1080	640	1920	1390	720	2170	1950
	336	3000	220	660	600	280	850	850	410	1230	1230	725	2180	1580	820	2460	2210
	379	3000	245	745	675	320	960	960	460	1390	1390	820	2460	1780	920	2780	2490
	431	3000	280	850	770	365	1090	1090	525	1580	1580	930	2790	2020	1050	3160	2840
	484	3000	315	950	860	410	1230	1230	590	1770	1770	1040	3140	2270	1180	3550	3180
	560	3000	365	1100	1000	470	1420	1420	685	2050	2050	1210	3630	2630	1370	4110	3690
	632	3000	415	1240	1130	535	1600	1600	770	2320	2320	1360	4100	2970	1540	4640	4160
	737	3000	485	1450	1310	620	1870	1870	900	2700	2700	1590	4780	3460	1800	5410	4850
	824	3000	540	1620	1470	695	2090	2090	1000	3020	3020	1780	5350	3870	2010		5430
	938	3000	615	1850	1670	790	2380	2380	1140	3440	3440	2030		4410	2290		
	1069	3000	700	2110	1910	900	2710	2710	1300	3920	3920	2310		5030	2610		
	1228	3000	800	2420	2190	1040	3120	3120	1500	4500	4500	2650		5780	3000		
	1396	3000	910	2750	2490	1180	3540	3540	1700	5120	5120	3020			3410		
	1583	3000	1040	3120	2830	1340	4020	4020	1930	5810	5810	3420			3870		
	1823	3000	1200	3600	3260	1540	4630	4630	2230			3940			4460		
	2078	3000	1360	4100	3710	1760	5280	5280	2540			4490			5080		
	2311	3000	1520	4560	4130	1950	5870	5870	2820			5000			5650		
	2722	3000	1790	5380	4860	2300			3330			5890					
	3065	3000	2010		5480	2590			3750								

Table continued on next page. Weight table on next page.

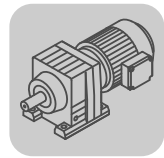


M_a [Nm]			DRM														
i	M_{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
R97R57  3 	3481	3000	2260			2910			4200								
	4004	3000	2600			3350			4840								
	4559	3000	2960			3810			5510								
	5161	3000	3360			4320											
	5931	3000	3860			4960											
	6708	3000	4360			5610											
	7692	3000	5000														
	8706	3000	5660														

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
R97R57  2 		120	120	130	140	140	
R97R57  2 		120	120	130	140	140	
R97R57  3 		125	125	135	140	145	
R97R57  3 		125	125	135	140	145	
RF: + 17.2 kg / RM: + 68.5 kg							



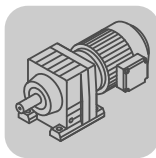
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R 107R77

	M _a [Nm]		DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1 0.7	S3 2.1	S1 /V 1.9	S1 0.9	S3 2.7	S1 /V 2.7	S1 1.3	S3 3.9	S1 /V 3.9	S1 2.3	S3 6.9	S1 /V 5.0	S1 2.6	S3 7.8	S1 /V 7.0
R107R77 2 2	172	4300	115	340	310	148	440	440	210	635	635	375	1130	810	425	1270	1140
	193	4300							235	715	715	420	1260	910	475	1430	1280
	220	4300	147	440	395	189	565	565	270	810	810	480	1440	1040	545	1630	1460
	256	4300	171	510	460	215	655	655	315	950	950	560	1680	1210	630	1900	1700
	284	4300	189	565	510	240	730	730	350	1050	1050	620	1860	1350	700	2110	1890
	325	4300	215	650	585	275	830	830	400	1200	1200	710	2130	1540	800	2410	2160
	377	4300	250	750	680	320	960	960	465	1400	1400	820	2470	1790	930	2800	2510
	426	4300	280	850	770	365	1090	1090	525	1580	1580	930	2800	2020	1050	3160	2840
R107R77 2 3	469	4300	310	930	840	400	1200	1200	580	1740	1740	1020	3080	2230	1160	3480	3120
	528	4300	345	1040	940	445	1340	1340	645	1930	1930	1140	3420	2480	1290	3870	3470
	626	4300	410	1230	1110	530	1590	1590	765	2290	2290	1350	4060	2940	1530	4590	4120
	717	4300	470	1410	1280	605	1820	1820	870	2630	2630	1550	4650	3370	1750	5260	4720
	815	4300	535	1610	1450	690	2070	2070	990	2990	2990	1760	5290	3830	1990	5980	5370
	919	4300	605	1810	1640	775	2330	2330	1120	3370	3370	1980	5960	4320	2240	6740	6050
	1055	4300	695	2080	1880	890	2680	2680	1290	3870	3870	2280	6850	4960	2580	7740	6950
	1209	4300	795	2390	2160	1020	3070	3070	1470	4430	4430	2610	7850	5690	2950		7960
	1407	4300	920	2780	2510	1190	3570	3570	1720	5160	5160	3040		6620	3440		
	1550	4300	1020	3060	2770	1310	3930	3930	1890	5690	5690	3350		7290	3790		
	1693	4300	1110	3340	3020	1430	4300	4300	2070	6210	6210	3660		7960	4140		
	2067	4300	1360	4080	3690	1750	5250	5250	2520	7580	7580	4470			5050		
	2280	4300	1500	4500	4070	1930	5790	5790	2790	8370	8370	4930			5580		
	2653	4300	1740	5240	4740	2240	6740	6740	3240			5740			6490		
	3034	4300	1990	5990	5420	2570	7710	7710	3710			6560			7420		
	3343	4300	2200	6600	5970	2830	8490	8490	4090			7230			8180		
	3918	4300	2580	7740	7000	3310											
R107R77 3 2	187	4300							225	685	685	400	1210	880	455	1370	1230
	214	4300							260	785	785	460	1390	1000	520	1570	1410
	253	4300							305	920	920	545	1640	1190	615	1850	1660
	285	4300							345	1040	1040	615	1850	1340	695	2090	1870
	323	4300	210	635	575	270	820	820	395	1180	1180	695	2090	1520	790	2370	2120
	369	4300	240	725	660	310	930	930	450	1350	1350	795	2390	1730	900	2700	2430
	417	4300							510	1530	1530	900	2700	1960	1020	3060	2740
	492	4300							600	1800	1800	1060	3190	2310	1200	3610	3240
	544	4300							665	1990	1990	1170	3530	2560	1330	3990	3580
	614	4300							750	2250	2250	1320	3980	2890	1500	4500	4040
	822	4300	540	1620	1470	695	2080	2080	1000	3010	3010	1770	5330	3860	2010	6030	5410
	939	4300	615	1850	1670	795	2380	2380	1140	3440	3440	2030	6090	4410	2290	6890	6180
	1104	4300	725	2180	1970	930	2800	2800	1350	4050	4050	2390	7170	5190	2700	8100	7270
	1226	4300	800	2420	2190	1030	3110	3110	1500	4500	4500	2650	7960	5770	3000		8070
	1400	4300	920	2760	2500	1180	3550	3550	1710	5140	5140	3030		6580	3420		
	1599	4300	1050	3160	2860	1350	4060	4060	1950	5870	5870	3460		7520	3910		
	1827	4300	1200	3610	3260	1540	4640	4640	2230	6700	6700	3950		8590	4470		
	1987	4300	1300	3920	3550	1680	5050	5050	2430	7290	7290	4300			4860		

Tabelle wird auf der Folgeseite fortgesetzt. Gewichtstabelle ist auf der Folgeseite.

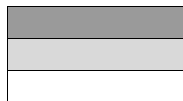


R..DRM – 50 Hz

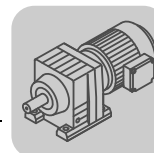
R..DRM

M _a [Nm]			DRM														
i	M _{amax} [Nm]		71S12			71M12			90M12			100M12			100L12		
			S1 0.7	S3 2.1	S1 /V 1.9	S1 0.9	S3 2.7	S1 /V 2.7	S1 1.3	S3 3.9	S1 /V 3.9	S1 2.3	S3 6.9	S1 /V 5.0	S1 2.6	S3 7.8	S1 /V 7.0
R107R77  3  3	2339	4300							2820	8480	8480	5000			5650		
	2688	4300	1750	5250	4750	2250	6750	6750	3250			5750			6500		
	3039	4300	1970	5930	5370	2540	7630	7630	3670			6500			7340		
	3432	4300	2230	6700	6060	2870			4140			7340			8290		
	3896	4300	2530	7600	6880	3260			4710			8330					
	4435	4300	2880		7830	3710			5360								
	5168	4300	3360			4320			6240								
	5914	4300	3850			4950			7150								
	6743	4300	4390			5640			8150								
	7583	4300	4930			6340											
	8618	4300	5610			7210											
	9547	4300	6210			7990											
	11256	4300	7320														
	12829	4300	8350														

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
R107R77  2  2		185	190	195	205	205
R107R77  2  3		190	190	200	205	210
R107R77  3  2		195	195	205	210	215
R107R77  3  3		195	195	205	210	215
RF: + 5.9 kg / RM: + 93.9 kg						

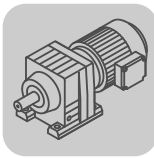


→ 15



M _a [Nm]			DRM					
	i	M _{amax} [Nm]	132S12		S1 /V	S1	132M12	
			S1 2.9	S3 8.7			S3 10.8	S1 /V 8.7
R107R77 2 2	172	4300	475	1420	1180	590	1770	1420
	193	4300	530	1590	1320	660	1980	1590
	220	4300	605	1820	1500	750	2260	1820
	256	4300	705	2120	1750	870	2630	2120
	284	4300	780	2350	1940	970	2920	2350
	325	4300	890	2690	2220	1110	3340	2690
	377	4300	1040	3120	2580	1290	3870	3120
	426	4300	1170	3530	2920	1460	4380	3530
	469	4300	1290	3880	3210	1600	4820	3880
R107R77 2 3	528	4300	1440	4320	3570	1780	5360	4320
	626	4300	1700	5120	4240	2120	6360	5120
	717	4300	1950	5870	4860	2430	7290	5870
	815	4300	2220	6670	5520	2760	8280	6670
	919	4300	2500	7520	6220	3110		7520
	1055	4300	2880		7150	3570		
	1209	4300	3300		8190	4090		
	1407	4300	3840			4760		
	1550	4300	4230			5250		
	1693	4300	4620			5730		
	2067	4300	5640			7000		
	2280	4300	6220			7720		
	2653	4300	7240					
	3034	4300						
	3343	4300						
	3918	4300						
R107R77 3 2	187	4300	510	1530	1260	630	1900	1530
	214	4300	580	1750	1450	725	2170	1750
	253	4300	690	2070	1710	850	2570	2070
	285	4300	775	2330	1930	960	2890	2330
	323	4300	880	2640	2180	1090	3280	2640
	369	4300	1000	3020	2500	1250	3750	3020
	417	4300	1130	3410	2820	1410	4230	3410
	492	4300	1340	4020	3330	1660	5000	4020
	544	4300	1480	4450	3680	1840	5530	4450
	614	4300	1670	5020	4160	2080	6240	5020
	822	4300	2240	6730	5570	2780	8350	6730
	939	4300	2560	7690	6360	3180		7690
	1104	4300	3010		7480	3740		
	1226	4300	3340		8310	4150		
	1400	4300	3820			4740		
	1599	4300	4360			5410		
	1827	4300	4980			6190		
	1987	4300	5420			6730		

Table continued on next page. Weight table on next page.



R..DRM – 50 Hz

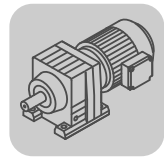
R..DRM

M_a [Nm]			DRM					
	i	M_{amax}	S1	132S12 S3	S1 /V	S1	132M12 S3	S1 /V
		[Nm]	2.9	8.7	7.2	3.6	10.8	8.7
R107R77 	2339	4300	6300			7830		
	2688	4300	7250					
	3039	4300	8190					
	3432	4300						
	3896	4300						
	4435	4300						
	5168	4300						
	5914	4300						
	6743	4300						
	7583	4300						
	8618	4300						
	9547	4300						
	11256	4300						
	12829	4300						

m [kg]		DRM	
	s	132S12	132M12
R107R77	 2  2	220	235
R107R77	 2  3	225	235
R107R77	 3  2	230	240
R107R77	 3  3	230	245
RF: + 5.9 kg / RM: + 93.9 kg			



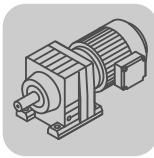
→ 15



R 137R77

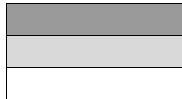
	M _a [Nm]		DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
R137R77 2 2	297	8000	198	590	535	250	760	760	365	1100	1100	650	1950	1410	735	2200	1980
	339	8000	225	675	610	290	870	870	415	1250	1250	740	2220	1610	830	2510	2260
	376	8000	250	750	680	320	960	960	465	1390	1390	820	2470	1790	930	2790	2500
	453	8000	300	900	820	385	1160	1160	560	1680	1680	990	2970	2150	1120	3360	3020
	517	8000	340	1030	930	440	1330	1330	640	1920	1920	1130	3390	2460	1280	3840	3440
	564	8000	375	1120	1020	480	1450	1450	695	2090	2090	1230	3700	2680	1390	4190	3760
R137R77 2 3	609	8000							745	2230	2230	1310	3950	2860	1490	4470	4010
	699	8000	460	1380	1250	590	1770	1770	850	2560	2560	1510	4540	3290	1710	5130	4600
	888	8000	585	1750	1580	750	2250	2250	1080	3260	3260	1920	5760	4170	2170	6520	5850
	1043	8000	685	2060	1860	880	2650	2650	1270	3820	3820	2250	6770	4900	2550	7650	6870
	1105	8000	725	2180	1970	930	2800	2800	1350	4050	4050	2390	7170	5200	2700	8110	7280
	1256	8000	820	2480	2240	1060	3190	3190	1530	4610	4610	2710	8150	5910	3070	9220	8270
	1391	8000	910	2740	2480	1170	3530	3530	1700	5100	5100	3010	9030	6540	3400	10200	9160
	1586	8000	1040	3130	2830	1340	4030	4030	1940	5820	5820	3430	10300	7460	3880	11600	10400
	1863	8000	1220	3680	3330	1570	4730	4730	2280	6840	6840	4030	12100	8760	4560	13600	12200
	2242	8000	1470	4430	4010	1890	5690	5690	2740	8230	8230	4850	14500	10500	5480		14700
	2484	8000	1630	4910	4440	2100	6310	6310	3040	9120	9120	5370		11600	6080		
	2929	8000	1930	5790	5230	2480	7440	7440	3580	10700	10700	6340		13700	7160		
	3338	8000	2190	6590	5970	2820	8480	8480	4080	12200	12200	7220		15700	8170		
	3514	8000	2310	6940	6280	2970	8930	8930	4300	12900	12900	7600			8600		
	4018	8000	2640	7940	7180	3400	10200	10200	4910	14700	14700	8700			9830		
	4709	8000	3100	9300	8420	3980	11900	11900									
R137R77 3 2	175	8000							210	640	640	375	1130	820	425	1280	1150
	197	8000							240	720	720	425	1270	920	480	1440	1290
	223	8000	147	440	395	189	565	565	270	810	810	480	1440	1040	545	1630	1460
	255	8000	168	500	455	215	645	645	310	930	930	550	1650	1200	620	1870	1680
	291	8000	192	575	520	245	735	735	355	1060	1060	630	1890	1360	710	2130	1910
	323	8000	210	635	575	270	820	820	395	1180	1180	695	2090	1520	790	2370	2120
	381	8000	250	750	680	320	960	960	465	1390	1390	820	2470	1790	930	2790	2510
	428	8000							520	1570	1570	920	2780	2010	1040	3140	2820
	490	8000							595	1790	1790	1060	3180	2300	1190	3590	3220
	560	8000	365	1100	1000	470	1420	1420	685	2050	2050	1210	3630	2630	1370	4110	3690
	629	8000							765	2300	2300	1360	4080	2960	1530	4610	4140
	730	8000	480	1440	1300	615	1850	1850	890	2680	2680	1580	4740	3430	1780	5360	4810
	831	8000	545	1640	1480	700	2110	2110	1010	3050	3050	1790	5390	3910	2030	6100	5470
	951	8000	625	1880	1700	800	2410	2410	1160	3490	3490	2050	6170	4470	2320	6980	6260
	1090	8000	715	2150	1940	920	2770	2770	1330	4000	4000	2360	7080	5130	2660	8000	7180
	1226	8000	800	2420	2190	1030	3110	3110	1500	4500	4500	2650	7960	5770	3000	9000	8070
	1397	8000	920	2760	2490	1180	3550	3550	1700	5120	5120	3020	9070	6570	3410	10200	9200
	1598	8000	1050	3150	2850	1350	4060	4060	1950	5860	5860	3460	10300	7520	3910	11700	10500
	1839	8000	1210	3630	3280	1550	4670	4670	2250	6750	6750	3980	11900	8650	4500	13500	12100
	2073	8000	1360	4090	3700	1750	5260	5260	2530	7610	7610	4480	13400	9750	5070	15200	13600
	2412	8000	1580	4760	4310	2040	6130	6130	2950	8850	8850	5220	15600	11300	5900		15800
	2658	8000	1750	5250	4750	2250	6750	6750	3250	9750	9750	5750		12500	6500		

Table continued on next page. Weight table on next page.

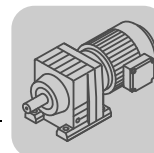


M_a [Nm]			DRM														
i	M_{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
R137R77 	2993	8000	1940	5840	5280	2500	7510	7510	3610	10800	10800	6400		13900	7230		
	3454	8000	2240	6740	6100	2890	8670	8670	4170	12500	12500	7380			8350		
	3928	8000	2550	7670	6940	3280	9860	9860	4740	14200	14200	8400			9490		
	4464	8000	2900	8710	7880	3730	11200	11200	5390			9540			10700		
	5116	8000	3330	9990	9040	4280	12800	12800	6180			10900			12300		
	5834	8000	3790	11300	10300	4880	14600	14600	7050			12400			14100		
	6559	8000	4270	12800	11500	5490			7930			14000			15800		
	7479	8000	4860	14600	13200	6260			9040			15900					
	8784	8000	5710		15500	7350			10600								
	10573	8000	6880			8850			12700								
	11712	8000	7620			9800			14100								
	12921	8000	8410			10800			15600								
	14777	8000	9620			12300											
	16566	8000	10700			13800											
	18945	8000	12300			15800											
	22203	8000	14400														

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
R137R77	 2  2	265	265	275	280	285	
R137R77	 2  3	265	265	275	285	285	
R137R77	 3  2	275	275	285	290	295	
R137R77	 3  3	275	275	285	295	295	
RF: + 23.3 kg / RM: + 134.4 kg							

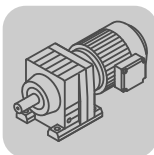


→ 15



M _a [Nm]			DRM					
	i	M _{amax} [Nm]	132S12		S1 /V	S1	132M12	
			S1 2.9	S3 8.7			S3 10.8	S1 /V 8.7
R137R77 2 2	297	8000	820	2460	2030	1010	3050	2460
	339	8000	930	2810	2320	1160	3480	2810
	376	8000	1030	3110	2570	1280	3860	3110
	453	8000	1250	3750	3100	1550	4660	3750
	517	8000	1420	4280	3540	1770	5320	4280
	564	8000	1550	4670	3860	1930	5800	4670
R137R77 2 3	609	8000	1660	4980	4120	2060	6190	4980
	699	8000	1900	5720	4730	2360	7100	5720
	888	8000	2420	7270	6010	3000	9020	7270
	1043	8000	2840	8540	7060	3530	10600	8540
	1105	8000	3010	9050	7480	3740	11200	9050
	1256	8000	3420	10200	8510	4250	12700	10200
	1391	8000	3790	11300	9420	4710	14100	11300
	1586	8000	4320	12900	10700	5370		12900
	1863	8000	5080	15200	12600	6310		15200
	2242	8000	6120		15100	7590		
	2484	8000	6780			8410		
	2929	8000	7990			9920		
	3338	8000	9110			11300		
	3514	8000	9590			11900		
	4018	8000						
	4709	8000						
R137R77 3 2	175	8000	475	1430	1180	590	1770	1430
	197	8000	535	1610	1330	665	2000	1610
	223	8000	605	1820	1510	755	2260	1820
	255	8000	695	2080	1720	860	2590	2080
	291	8000	790	2380	1970	980	2950	2380
	323	8000	880	2640	2180	1090	3280	2640
	381	8000	1040	3120	2580	1290	3870	3120
	428	8000	1160	3500	2900	1450	4350	3500
	490	8000	1330	4010	3320	1660	4980	4010
	560	8000	1520	4580	3790	1890	5690	4580
	629	8000	1710	5150	4260	2130	6390	5150
	730	8000	1990	5970	4940	2470	7420	5970
	831	8000	2260	6800	5630	2810	8440	6800
	951	8000	2590	7780	6440	3220	9660	7780
	1090	8000	2970	8920	7380	3690	11000	8920
	1226	8000	3340	10000	8310	4150	12400	10000
	1397	8000	3810	11400	9460	4730	14200	11400
	1598	8000	4360	13000	10800	5410		13000
	1839	8000	5020	15000	12400	6230		15000
	2073	8000	5650		14000	7020		
	2412	8000	6580			8170		
	2658	8000	7250			9000		

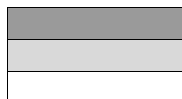
Table continued on next page. Weight table on next page.



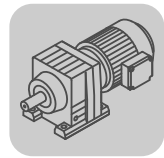
R..DRM – 50 Hz R..DRM

	M _a [Nm]		DRM					
	i	M _{amax} [Nm]	132S12		S1 /V 7.2	132M12		S1 /V 8.7
			S1 2.9	S3 8.7		S1 3.6	S3 10.8	
R137R77 	2993	8000	8070			10000		
	3454	8000	9310			11500		
	3928	8000	10500			13100		
	4464	8000	12000			14900		
	5116	8000	13700					
	5834	8000	15700					
	6559	8000						
	7479	8000						
	8784	8000						
	10573	8000						
	11712	8000						
	12921	8000						
	14777	8000						
	16566	8000						
	18945	8000						
	22203	8000						

	m [kg]		DRM	
	s		132S12	132M12
R137R77			300	315
R137R77			300	315
R137R77			310	325
R137R77			310	325
RF: + 23.3 kg / RM: + 134.4 kg				



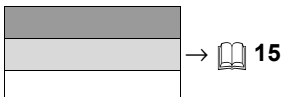
→  15

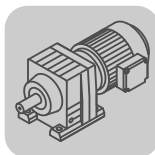


R 147R77

M _a [Nm]			DRM														
i	M _{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
R147R77 3 2	415	13000	270	820	740	350	1050	1050	505	1520	1520	890	2690	1950	1010	3040	2730
	489	13000	320	960	870	410	1240	1240	595	1790	1790	1050	3170	2300	1190	3590	3220
	558	13000	365	1100	990	470	1410	1410	680	2040	2040	1200	3620	2620	1360	4090	3670
	619	13000	405	1220	1100	520	1570	1570	755	2270	2270	1340	4020	2910	1510	4540	4070
	695	13000							850	2550	2550	1500	4510	3270	1700	5100	4580
	784	13000							950	2870	2870	1690	5090	3690	1910	5750	5160
	889	13000	585	1750	1590	750	2250	2250	1080	3260	3260	1920	5770	4180	2170	6520	5850
	1029	13000							1250	3770	3770	2220	6680	4840	2510	7550	6780
	1166	13000	765	2300	2080	980	2960	2960	1420	4280	4280	2520	7570	5480	2850	8560	7680
	1329	13000	870	2620	2370	1120	3370	3370	1620	4870	4870	2870	8630	6250	3250	9750	8750
	1536	13000	1010	3030	2740	1300	3900	3900	1870	5630	5630	3320	9970	7230	3750	11200	10100
	1705	13000	1120	3370	3040	1440	4330	4330	2080	6250	6250	3690	11000	8020	4170	12500	11200
	1951	13000	1280	3850	3480	1650	4950	4950	2380	7160	7160	4220	12600	9180	4770	14300	12800
	2211	13000	1450	4370	3950	1870	5620	5620	2700	8110	8110	4780	14300	10400	5410	16200	14500
	2555	13000	1680	5050	4570	2160	6490	6490	3120	9380	9380	5530	16500	12000	6250	18700	16800
R147R77 3 3	2898	13000	1880	5660	5120	2420	7270	7270	3500	10500	10500	6190	18500	13400	7000	21000	18800
	3302	13000	2140	6440	5830	2760	8290	8290	3990	11900	11900	7060	21100	15300	7980	23900	21400
	3754	13000	2440	7330	6630	3140	9420	9420	4530	13600	13600	8030	24000	17400	9070		24400
	4325	13000	2810	8440	7640	3620	10800	10800	5220	15600	15600	9250		20100	10400		
	4926	13000	3200	9620	8700	4120	12300	12300	5950	17800	17800	10500		22900	11900		
	5568	13000	3620	10800	9830	4660	13900	13900	6730	20100	20100	11900		25800	13400		
	6447	13000	4190	12500	11300	5390	16100	16100	7790	23300	23300	13700			15500		
	7307	13000	4750	14200	12900	6110	18300	18300	8830			15600			17600		
	8443	13000	5490	16400	14900	7060	21200	21200	10200			18000			20400		
	9743	13000	6340	19000	17200	8150	24400	24400	11700			20800			23500		
	11143	13000	7250	21700	19600	9320			13400			23800					
	12344	13000	8030	24100	21800	10300			14900								
	14075	13000	9160		24800	11700											
	15923	13000	10300			13300			19200								
	18210	13000	11800			15200			22000								
	21342	13000	13800			17800											
	23401	13000	15200			19500											

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
R147R77 3 2		400	400	410	415	420	
R147R77 3 3		400	400	410	420	420	
RF: + 8.3 kg / RM: + 175.7 kg							

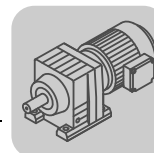




M _a [Nm]			DRM					
	i	M _{amax} [Nm]	132S12		S1 /V	S1 3.6	132M12	
			S1 2.9	S3 8.7			S3 10.8	S1 /V 8.7
R147R77  3  2	415	13000	1130	3390	2810	1400	4210	3390
	489	13000	1330	4000	3310	1650	4970	4000
	558	13000	1520	4570	3780	1890	5670	4570
	619	13000	1680	5060	4190	2090	6290	5060
	695	13000	1890	5690	4710	2350	7060	5690
	784	13000	2140	6420	5310	2650	7970	6420
	889	13000	2420	7280	6020	3010	9030	7280
	1029	13000	2800	8420	6970	3480	10400	8420
	1166	13000	3180	9540	7900	3950	11800	9540
	1329	13000	3620	10800	9000	4500	13500	10800
	1536	13000	4190	12500	10400	5200	15600	12500
	1705	13000	4650	13900	11500	5770	17300	13900
	1951	13000	5320	15900	13200	6610	19800	15900
	2211	13000	6030	18100	14900	7490	22400	18100
R147R77  3  3	2555	13000	6970	20900	17300	8650	25900	20900
	2898	13000	7810	23400	19400	9700		23400
	3302	13000	8900		22100	11000		
	3754	13000	10100		25100	12500		
	4325	13000	11600			14400		
	4926	13000	13200			16400		
	5568	13000	15000			18600		
	6447	13000	17300			21500		
	7307	13000	19700			24400		
	8443	13000	22700					
	9743	13000						
	11143	13000						
	12344	13000						
	14075	13000						
	15923	13000						
	18210	13000						
	21342	13000						
	23401	13000						

m [kg]		DRM	
	s	132S12	132M12
R147R77	 3  2	435	450
R147R77	 3  3	435	450
RF: + 8.3 kg / RM: + 175.7 kg			


→  15

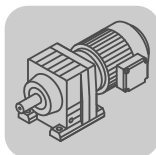


R 147R87

M _a [Nm]			DRM																	
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0	2.9	8.7	7.2	3.6	10.8	8.7
R147R87	326	13000				395	1190	1190	705	2110	1530	795	2390	2140	890	2670	2200	1100	3310	2670
 	368	13000				450	1350	1350	795	2390	1730	900	2700	2420	1000	3010	2490	1240	3740	3010
	426	13000				520	1560	1560	920	2760	2000	1040	3120	2800	1160	3480	2880	1440	4330	3480

m [kg]		DRM					
	s	71M12	90M12	100M12	100L12	132S12	132M12
R147R87	 	430	440	445	450	465	475
RF: + 8.3 kg / RM: + 175.7 kg							

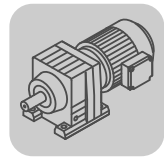
→ 15


R 167R97

M_a [Nm]			DRM											
	i	M_{amax}	71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
R167R97  3  2	760	18000	640	1930	1930	930	2790	2790	1640	4930	3570	1860	5580	5000
	861	18000	725	2180	2180	1050	3160	3160	1860	5590	4050	2100	6320	5670
	999	18000	840	2530	2530	1220	3660	3660	2160	6480	4700	2440	7330	6580
	1123	18000	950	2850	2850	1370	4120	4120	2430	7290	5280	2740	8240	7400
	1279	18000	1080	3250	3250	1560	4690	4690	2760	8300	6020	3130	9390	8420
	1438	18000	1210	3650	3650	1750	5270	5270	3110	9340	6760	3510	10500	9470
	1670	18000				2040	6130	6130	3610	10800	7860	4080	12200	11000
	1877	18000				2290	6890	6890	4060	12100	8830	4590	13700	12300
	2085	18000	1760	5290	5290	2550	7650	7650	4510	13500	9810	5100	15300	13700
	2333	18000	1970	5930	5930	2850	8560	8560	5050	15100	10900	5710	17100	15300
R167R97  3  3	2657	18000	2250	6750	6750	3250	9750	9750	5750	17200	12500	6500	19500	17500
	3692	18000				4460	13300	13300	7890	23600	17100	8920	26700	24000
	4129	18000	3450	10300	10300	4990	14900	14900	8830	26400	19200	9980	29900	26800
	4650	18000	3890	11600	11600	5620	16800	16800	9940	29800	21600	11200	33700	30200
	5407	18000	4520	13500	13500	6530	19600	19600	11500	34700	25100	13000		35200
	6077	18000	5080	15200	15200	7340	22000	22000	13000		28200	14600		
	6894	18000				8330	25000	25000	14700		32000	16600		
	7749	18000				9360	28100	28100	16500			18700		
	9631	18000	8060	24100	24100	11600	34900	34900	20600			23200		
	10509	18000	8790	26300	26300	12700			22400			25400		
	11812	18000	9880	29600	29600	14200			25200			28500		
	14051	18000	11700	35200	35200	16900			30000			33900		
	15446	18000	12900			18600			33000					
	17361	18000	14500			20900								
	20002	18000	16700			24100								
	22482	18000	18800			27100								
	27001	18000	22600			32600								

m [kg]		DRM			
s		71M12	90M12	100M12	100L12
R167R97  3  2		720	730	730	740
R167R97  3  3		720	730	740	740
RF: + 6.4 kg / RM: + 201.8 kg					

 → 15



M _a [Nm]			DRM					
	i	M _{amax}	132S12				132M12	
		[Nm]	S1	S3	S1 /V	S1	S3	S1 /V
			2.9	8.7	7.2	3.6	10.8	8.7
R167R97  3  2	760	18000	2070	6220	5150	2570	7720	6220
	861	18000	2350	7050	5830	2910	8750	7050
	999	18000	2720	8180	6770	3380	10100	8180
	1123	18000	3060	9190	7610	3800	11400	9190
	1279	18000	3490	10400	8660	4330	13000	10400
	1438	18000	3920	11700	9740	4870	14600	11700
	1670	18000	4550	13600	11300	5650	16900	13600
	1877	18000	5120	15300	12700	6360	19000	15300
	2085	18000	5690	17000	14100	7060	21100	17000
	2333	18000	6360	19100	15800	7900	23700	19100
R167R97  3  3	2657	18000	7250	21700	18000	9000	27000	21700
	3692	18000	9950	29800	24700	12300		29800
	4129	18000	11100	33400	27600	13800		33400
	4650	18000	12500		31100	15500		
	5407	18000	14500			18100		
	6077	18000	16300			20300		
	6894	18000	18500			23000		
	7749	18000	20900			25900		
	9631	18000	25900			32200		
	10509	18000	28300			35100		
	11812	18000	31800					
	14051	18000						
	15446	18000						
	17361	18000						
	20002	18000						
	22482	18000						
	27001	18000						

m [kg]		DRM	
	s	132S12	132M12
R167R97	 3  2	750	760
R167R97	 3  3	750	770
RF: + 6.4 kg / RM: + 201.8 kg			

	→  15



5 F..DRM – 50 Hz

5.1 F..DRM

F 27

M _a [Nm]			DRM														
i	M _{amax} [Nm]	S1	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
FA27 	4.16	87	2.8	8.5	7.7	3.7	11	11	5.3	16	16	9.3	28	20	11	32	28
	4.93	96	3.4	10	9.1	4.3	13	13	6.3	19	19	11	33	24	13	38	34
	5.27	100	3.6	11	9.8	4.6	14	14	6.7	20	20	12	35	26	13	40	36
	6.17	109	4.2	13	11	5.4	16	16	7.8	23	23	14	42	30	16	47	42
	6.91	114	4.7	14	13	6.1	18	18	8.8	26	26	16	47	34	18	53	47
	8.13	123	5.6	17	15	7.1	21	21	10	31	31	18	55	40	21	62	56
	9.40	130	6.4	19	17	8.3	25	25	12	36	36	21	63	46	24	72	64
	9.88	130	6.8	20	18	8.7	26	26	13	38	38	22	67	48	25	75	68
	10.55	130	7.2	22	20	9.3	28	28	13	40	40	24	71	51	27	80	72
	12.35	130	8.4	25	23	11	33	33	16	47	47	28	83	60	31	94	84
	13.84	130	9.5	28	26	12	36	36	18	53	53	31	93	68	35	105	95
	16.28	130	11	33	30	14	43	43	21	62	62	37	110	79	41	124	111
	18.84	130	13	39	35	17	50	50	24	72	72	42	127	92	48	143	129
	20.15	130	14	41	37	18	53	53	26	77	77	45	136	98	51	153	138
	23.25	130	16	48	43	20	61	61	30	89	89	52	157	113	59	177	159
FA27 	27.18	130	19	56	50	24	72	72									
	29.56	130	20	61	55	26	78	78									
	33.83	130	23	69	62	29	88	88	42	127	127	75	225	163	85	250	225
	38.33	130	26	78	70	33	100	100	48	144	144	85	255	185	96		255
	40.89	130	28	83	75	35	106	106	51	154	154	91		197	103		
	46.78	130	32	95	86	41	122	122	59	176	176	104		225	117		
	50.19	130	34	102	92	44	131	131	63	189	189	111		240	126		
	56.62	130	38	115	104	49	147	147	71	210	210	126			142		
	63.86	130	43	129	117	55	166	166	80	240	240	142			160		
	72.37	130	49	147	133	63	188	188	91			161			181		
	77.21	130	52	156	141	67	200	200	97			171			194		
	88.32	130	60	179	162	77	225	225	111			196			220		
	94.76	130	64	192	174	82	245	245	119			210			235		
	109.90	130	74	220	200	95			138			240					
	129.09	130	87		235	112											
	140.74	130	95		255	122											

m [kg]		DRM				
	s	71S12	71M12	90M12	100M12	100L12
FA27		12	13	23	30	33
FA27		13	14	23	30	34
FAF: + 0.7 kg / F: + 0.5 kg / FF: + 1.3 kg						

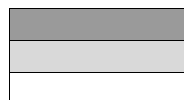




F 27R17

M _a [Nm]			DRM					
	i	M _{amax} [Nm]	S1	71S12 S3	S1 /V	S1	71M12 S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7
FA27R17 	96	130	64	192	174	82	245	245
	109	130	73	215	197	93		
	124	130	83	245	220	106		
	142	130	95		255	122		
	186	130	124			160		
	211	130	141			181		
	236	130	157			200		
	266	130	177			225		
	302	130	200			255		
	342	130	225					
FA27R17 	130	130	86	255	230	110		
	153	130	101			130		
	172	130	113			146		
	221	130	146			187		
	251	130	165			210		
	288	130	190			240		
	326	130	210					
	379	130	245					

m [kg]		DRM	
	s	71S12	71M12
FA27R17		15	16
FA27R17		15	16
FA27R17		15	16
FA27R17		15	17
FAF: + 0.7 kg / F: + 0.5 kg / FF: + 1.3 kg			



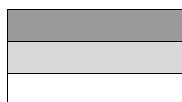
→ 15


F 37

	M_a [Nm]		DRM														
	i	M_{amax}	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
FA37 	3.77	105	2.6	7.7	7.0	3.3	9.9	9.9	4.8	14	14	8.5	25	18	9.6	29	26
	4.22	110	2.9	8.7	7.8	3.7	11	11	5.4	16	16	9.5	28	21	11	32	29
	4.90	120	3.3	10	9.1	4.3	13	13	6.2	19	19	11	33	24	12	37	33
	5.21	125	3.6	11	9.7	4.6	14	14	6.6	20	20	12	35	25	13	40	36
	6.05	135	4.1	12	11	5.3	16	16	7.7	23	23	14	41	30	15	46	41
	6.74	140	4.6	14	13	5.9	18	18	8.6	26	26	15	45	33	17	51	46
	7.44	145	5.1	15	14	6.5	20	20	9.4	28	28	17	50	36	19	57	51
	8.01	170	5.5	16	15	7.0	21	21	10	30	30	18	54	39	20	61	55
	8.97	175	6.1	18	17	7.9	24	24	11	34	34	20	60	44	23	68	61
	10.42	185	7.1	21	19	9.2	27	27	13	40	40	23	70	51	26	79	71
	11.08	190	7.6	23	21	9.7	29	29	14	42	42	25	75	54	28	84	76
	12.87	200	8.8	26	24	11	34	34	16	49	49	29	87	63	33	98	88
	14.33	200	9.8	29	27	13	38	38	18	55	55	32	97	70	36	109	98
	15.81	200	11	32	29	14	42	42	20	60	60	35	106	77	40	120	108
	17.03	200	12	35	32	15	45	45	22	65	65	38	115	83	43	130	116
	19.27	200	13	40	36	17	51	51	24	73	73	43	130	94	49	147	132
	20.57	200	14	42	38	18	54	54	26	78	78	46	139	100	52	157	141
	23.63	200	16	48	44	21	62	62	30	90	90	53	159	115	60	180	161
FA37 	23.88	200	16	48	44	21	62	62	30	90	90	53	159	115	60	180	161
	28.09	200	19	57	51	24	73	73	35	106	106	62	187	135	70	210	190
	31.69	200	21	64	58	28	83	83	40	119	119	70	210	153	79	235	210
	35.91	200	24	73	66	31	94	94	45	135	135	80	235	173	90	270	240
	38.31	200	26	78	70	33	100	100	48	144	144	85	250	185	96	285	255
	43.83	200	30	89	80	38	114	114	55	165	165	97	290	210	110	325	295
	47.02	200	32	95	86	41	122	122	59	177	177	104	310	225	118	350	315
	51.70	200	35	105	95	45	135	135	65	194	194	115	340	245	130	385	345
	54.54	200	37	110	100	47	142	142	68	205	205	121	360	260	137		365
	58.32	200	39	118	107	51	152	152	73	215	215	129	385	280	146		390
	66.09	200	45	134	121	57	172	172	83	245	245	147		315	166		
	70.50	200	48	143	129	61	184	184	88	265	265	156		335	177		
	80.65	200	54	163	148	70	210	210	101	300	300	179		385	200		
	86.53	200	58	175	159	75	225	225	108	325	325	192			215		
	100.36	200	68	200	184	87	260	260	126	375	375	220			250		
	117.88	200	80	235	215	102	305	305									
	128.51	200	87	260	235	112	330	330									

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
FA37		19	20	29	36	39	
FA37		19	20	29	37	40	

FAF: + 1.5 kg / F: + 0.5 kg / FF: + 2.3 kg



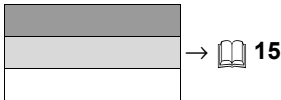
→ 15



F 37R17

M _a [Nm]			DRM					
	i	M _{amax}	S1	71S12 S3	S1 /V	S1	71M12 S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7
FA37R17 	87	200	58	174	158	75	220	220
	98	200	65	196	177	84	250	250
	118	200	79	235	210	101	300	300
	129	200	86	255	230	111	330	330
	145	200	97	290	260	124	370	370
	167	200	111	330	300	143		
	186	200	124	370	335	160		
	219	200	146		395	188		
	250	200	167			210		
	285	200	190			240		
FA37R17 	326	200	215			275		
	364	200	235			305		
	411	200	270			345		
	466	200	305			390		
FA37R17 	544	200	355					
	91	200	60	180	163	77	230	230
	108	200	71	210	193	92	270	270
	121	200	80	235	215	103	305	305
	127	200	84	250	225	108	320	320
	147	200	97	290	260	125	370	370
	168	200	111	330	300	142		
	195	200	129	385	345	165		
	221	200	146		395	187		
	242	200	159			205		
	278	200	183			235		
	322	200	210			270		
	365	200	240			305		
	412	200	270			345		
	477	200	310					
	538	200	350					

m [kg]		DRM	
	s	71S12	71M12
FA37R17		21	22
FA37R17		21	23
FA37R17		21	23
FA37R17		22	23
FAF: + 1.5 kg / F: + 0.5 kg / FF: + 2.3 kg			




F 47

	M_a [Nm]		DRM														
	i	M_{amax}	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
FA47 	4.99	320	3.4	10	9.3	4.4	13	13	6.3	19	19	11	34	24	13	38	34
	5.76	340	3.9	12	11	5.1	15	15	7.3	22	22	13	39	28	15	44	39
	6.34	350	4.3	13	12	5.6	17	17	8.0	24	24	14	43	31	16	48	43
	7.44	380	5.1	15	14	6.5	20	20	9.4	28	28	17	50	36	19	57	51
	7.88	380	5.4	16	15	6.9	21	21	10.0	30	30	18	53	38	20	60	54
	8.96	330	6.1	18	17	7.9	24	24	11	34	34	20	60	44	23	68	61
	10.97	400	7.5	22	20	9.6	29	29	14	42	42	25	74	54	28	84	75
	12.66	400	8.7	26	23	11	33	33	16	48	48	28	85	62	32	96	87
	13.93	400	9.5	29	26	12	37	37	18	53	53	31	94	68	35	106	95
	16.36	400	11	34	30	14	43	43	21	62	62	37	110	80	42	125	112
	17.33	400	12	36	32	15	46	46	22	66	66	39	117	85	44	132	118
	19.70	400	13	40	37	17	52	52	25	75	75	44	133	96	50	150	135
	21.82	400	15	45	40	19	58	58	28	83	83	49	147	106	55	166	149
	25.72	400	18	53	48	23	68	68	33	98	98	58	173	126	65	196	176
	29.32	400	20	60	54	26	77	77	37	112	112	66	197	143	74	220	200
FA47 	30.86	400	21	63	57	27	81	81	39	117	117	69	205	151	78	230	210
	28.88	400	19	58	53	25	75	75	36	109	109	64	192	139	72	215	195
	34.29	400	23	69	63	30	89	89	43	129	129	76	225	165	86	255	230
	36.61	400	25	74	67	32	95	95	46	138	138	81	240	177	92	275	245
	42.86	400	29	87	79	37	112	112	54	161	161	95	285	205	107	320	285
	48.00	400	32	97	88	42	125	125	60	181	181	106	315	230	120	360	320
	56.49	400	38	114	104	49	147	147	71	210	210	125	375	270	142	420	380
	65.36	400	44	132	120	57	170	170	82	245	245	145	430	315	164	490	440
	68.09	400	46	138	125	59	177	177	85	255	255	151	450	325	171	510	455
	79.72	400	54	161	146	69	205	205	100	295	295	177	530	380	200	595	535
	89.29	400	60	181	164	78	230	230	112	335	335	198	590	430	220	670	600
	105.09	400	71	210	193	91	270	270	132	395	395	230	695	505	260	790	705
	121.57	400	82	245	220	106	315	315	152	455	455	265		585	300		
	130.07	400	88	260	235	113	335	335	163	485	485	285		625	325		
	150.06	400	101	300	270	130	390	390	188	560	560	330		720	375		
	175.38	400	118	355	320	152	455	455									
	190.76	400	129	385	345	166	495	495									

m [kg]		DRM					
	s	71S12	71M12	90M12	100M12	100L12	
FA47		23	24	33	41	44	
FA47		24	25	34	41	44	
FAF: + 2.7 kg / F: + 0.8 kg / FF: + 3.9 kg							


 →  **15**



F 47R17

M _a [Nm]			DRM					
	i	M _{amax}	S1	71S12 S3	S1 /V	S1	71M12 S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7
FA47R17 2 2	131	400	87	260	235	112	335	335
	149	400	99	295	265	128	380	380
	178	400	119	355	320	153	455	455
	190	400	127	380	340	163	485	485
	217	400	145	430	390	186	555	555
	253	400	169	505	455	215	650	650
	295	400	197	590	530	250	755	755
	334	400	220	665	600	285		
	381	400	250	760	685	325		
	427	400	280		770	365		
	489	400	325			415		
FA47R17 2 3	524	400	345			445		
	619	400	405			520		
	706	400	465			595		
	822	400	540			695		
	931	400	610			785		
	1061	400	695					
FA47R17 3 2	1192	400	785					
	130	400	86	255	230	110	330	330
	147	400	97	290	260	125	370	370
	175	400	115	345	310	148	440	440
	193	400	127	380	345	164	490	490
	218	400	144	430	385	185	550	550
	249	400	164	490	445	210	630	630
	288	400	190	565	515	240	730	730
	324	400	210	640	575	270		
	370	400	240	730	660	310		
	419	400	275		745	355		
	475	400	310			400		
	543	400	355			460		
	622	400	405			525		
	700	400	460			590		
	809	400	530			685		
	918	400	600			775		
	1049	400	690					
	1203	400	790					

m [kg]		DRM	
	s	71S12	71M12
FA47R17	2 2	25	27
FA47R17	2 3	26	27
FA47R17	3 2	26	27
FA47R17	3 3	26	28

FAF: + 2.7 kg / F: + 0.8 kg / FF: + 3.9 kg



→ 15


F 57

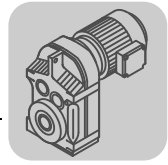
	M_a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M_{amax} [Nm]	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
FA57 	5.18	415	3.5	11	9.6	4.6	14	14	6.6	20	20	12	35	25	13	39	35
	5.98	420	4.1	12	11	5.3	16	16	7.6	23	23	13	40	29	15	46	41
	6.58	420	4.5	13	12	5.8	17	17	8.3	25	25	15	44	32	17	50	45
	7.73	420	5.3	16	14	6.8	20	20	9.8	29	29	17	52	38	20	59	53
	8.19	420	5.6	17	15	7.2	22	22	10	31	31	18	55	40	21	62	56
	9.31	420	6.4	19	17	8.2	25	25	12	35	35	21	63	45	24	71	64
	10.64	600	7.3	22	20	9.3	28	28	14	41	41	24	72	52	27	81	73
	12.29	600	8.4	25	23	11	32	32	16	47	47	28	83	60	31	94	84
	13.52	600	9.2	28	25	12	36	36	17	51	51	30	91	66	34	103	92
	15.88	600	11	33	29	14	42	42	20	60	60	36	107	78	40	121	109
	16.81	600	11	34	31	15	44	44	21	64	64	38	113	82	43	128	115
	19.11	600	13	39	35	17	50	50	24	73	73	43	129	93	49	146	131
	21.17	600	14	43	39	19	56	56	27	81	81	48	143	103	54	161	145
	24.96	575	17	51	46	22	66	66	32	95	95	56	168	122	63	190	171
	28.45	535	19	58	53	25	75	75	36	108	108	64	192	139	72	215	194
	29.94	545	20	61	56	26	79	79	38	114	114	67	200	146	76	225	200
	34.24	500	23	70	64	30	90	90	43	130	130	77	230	167	87	260	230
	40.13	290	27	82	74	35	106	106									
FA57 	30.15	590	20	61	55	26	79	79	38	113	113	67	200	145	76	225	200
	35.79	600	24	72	66	31	93	93	45	135	135	79	235	173	90	265	240
	38.21	600	26	77	70	33	99	99	48	144	144	85	250	184	96	285	255
	44.73	600	30	91	82	39	116	116	56	168	168	99	295	215	112	335	300
	50.10	600	34	101	92	43	130	130	63	188	188	111	330	240	126	375	335
	58.97	600	40	119	108	51	154	154	74	220	220	131	390	280	148	440	395
	68.22	600	46	138	125	59	178	178	86	255	255	151	450	325	171	510	460
	72.98	600	49	148	134	63	190	190	91	270	270	162	485	350	183	545	490
	83.46	600	56	169	153	72	215	215	105	310	310	185	555	400	205	625	560
	93.47	600	63	189	171	81	240	240	117	350	350	205	620	450	230	700	630
	110.01	600	74	220	200	95	285	285	138	410	410	240	730	530	275	820	740
	127.27	600	86	255	230	110	330	330	160	475	475	280	840	610	315	950	850
	136.16	600	92	275	245	118	350	350	171	510	510	300	900	655	340	1020	910
	157.09	600	106	315	285	136	405	405	197	590	590	345	1040	755	390	1180	1060
	183.60	600	124	370	335	159	475	475									
	199.70	600	135	400	365	173	520	520									

m [kg]		71S12	71M12	DRM 90M12	100M12	100L12
FA57		30	31	41	48	52
FA57		31	32	42	49	52

FAF: + 5.5 kg / F: + 0.2 kg / FF: + 6.6 kg



→ 15



F 57R37

M _a [Nm]			DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
FA57R37 	134	600	89	265	240	115	340	340	166	495	495	290	880	635	330	990	890
	152	600	101	300	275	130	390	390	188	560	560	330	990	720	375	1120	1010
	170	600	113	340	305	146	435	435	210	630	630	370	1110	800	420		1130
	200	600	133	400	360	172	510	510	245	740	740	435		950	495		
	226	600	151	450	405	194	580	580	275	830	830	495		1070	555		
	262	600	175	520	470	220	670	670	320	970	970	570			645		
	298	600	199	595	535	255	765	765	365	1100	1100	650			735		
	330	600	220	660	595	280	840	840	405			720			810		
	382	600	250	760	690	325	980	980	470			830			940		
	426	600	280	850	770	365	1090	1090	525			930			1050		
FA57R37 	483	600	315	950	860	405			590			1040			1180		
	549	600	360	1080	980	465			670			1180					
	658	600	430		1170	555			800								
	749	600	490			630			910								
	856	600	560			725			1040								
	949	600	625			800			1160								
	1066	600	700			900											
	1243	600	810			1050											
	1422	600	930														
	1617	600	1060														
FA57R37 	1791	600	1180														
	155	600	102	305	275	131	390	390	190	565	565	335	1000	725	375	1130	1020
	181	600	119	355	320	153	460	460	220	660	660	390	1170	850	440		1190
	201	600	132	395	355	170	510	510	245	735	735	435		940	490		
	255	600	168	500	455	215	645	645	310	930	930	550			620		
	338	600	220	665	600	285	850	850	410			730			820		
	386	600	250	760	690	325	980	980	470			830			940		
	452	600	295	890	800	380	1140	1140	550			970			1100		
	506	600	330	1000	900	425			615			1090					
	558	600	365	1100	990	470			680								
	646	600	425		1150	545			790								
	738	600	485			625			900								
	851	600	560			720			1040								
	967	600	635			810			1180								
	1106	600	725			930											
FA57R37 	1238	600	800			1030											
	1439	600	930														
	1623	600	1050														
	1840	600	1190														

m [kg]		DRM					
	s	71S12	71M12	90M12	100M12	100L12	
FA57R37		41	42	51	59	62	
FA57R37		41	42	51	59	62	
FA57R37		41	43	52	59	62	
FA57R37		42	43	52	60	63	

FAF: + 5.5 kg / F: + 0.2 kg / FF: + 6.6 kg

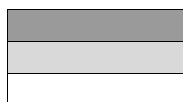


→ 15


F 67

M_a [Nm]			DRM														
	i	M_{amax}	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
FA67 	3.97	500							5.0	15	15	8.9	27	19	10	30	27
	4.66	560							5.9	18	18	10	31	23	12	35	32
	5.25	590							6.7	20	20	12	35	26	13	40	36
	5.95	610	4.1	12	11	5.2	16	16	7.6	23	23	13	40	29	15	45	41
	6.78	620	4.6	14	13	6.0	18	18	8.6	26	26	15	46	33	17	52	46
	7.53	610	5.1	15	14	6.6	20	20	9.6	29	29	17	51	37	19	57	51
	8.60	570	5.9	18	16	7.6	23	23	11	33	33	19	58	42	22	65	59
	9.08	530	6.2	19	17	8.0	24	24	12	35	35	20	61	44	23	69	62
	9.66	820							12	37	37	22	65	47	25	74	66
	11.31	820							14	43	43	25	76	55	29	86	77
	12.76	820							16	49	49	29	86	62	32	97	87
	14.46	820	9.9	30	27	13	38	38	18	55	55	32	97	71	37	110	99
	16.48	820	11	34	31	14	43	43	21	63	63	37	111	80	42	125	113
	18.29	820	12	37	34	16	48	48	23	70	70	41	123	89	46	139	125
	20.90	820	14	43	39	18	55	55	27	80	80	47	141	102	53	159	143
	22.05	820	15	45	41	19	58	58	28	84	84	50	149	108	56	168	151
	25.13	820	17	52	47	22	66	66	32	96	96	56	169	123	64	191	172
	27.41	820	19	56	51	24	72	72	35	104	104	62	185	134	70	205	187
	32.08	820	22	66	59	28	85	85	41	122	122	72	215	157	81	240	215
	36.30	820	25	74	67	32	96	96	46	138	138	81	240	177	92	275	245
FA67 	34.01	740	23	69	62	30	89	89	43	128	128	75	225	164	85	255	225
	39.26	780	27	80	72	34	102	102	49	148	148	87	260	189	98	295	265
	43.20	820	29	87	79	37	112	112	54	162	162	96	285	205	108	320	290
	50.74	820	34	103	93	44	132	132	64	191	191	113	335	240	127	380	340
	53.73	820	36	109	98	47	140	140	67	200	200	119	355	255	135	400	360
	61.07	820	41	124	112	53	159	159	77	225	225	135	405	290	153	455	410
	67.65	820	46	137	124	59	176	176	85	250	250	150	450	325	170	505	455
	79.76	820	54	162	146	69	205	205	100	295	295	177	530	380	200	595	535
	90.59	820	61	183	166	79	235	235	114	340	340	200	600	435	225	680	610
	95.94	820	65	194	176	83	245	245	120	360	360	210	635	460	240	720	645
	109.04	820	74	220	200	95	280	280	137	410	410	240	725	525	270	820	735
	120.79	820	82	240	220	105	310	310	151	450	450	265	800	580	300	900	810
	142.40	820	96	285	260	124	370	370	179	535	535	315	940	685	355	1070	960
	162.31	820	110	325	295	141	420	420	200	610	610	360	1080	780	405	1220	1090
	170.85	820	115	345	310	148	440	440	210	640	640	375	1130	820	425	1280	1150
	195.39	820	132	395	355	170	505	505	240	730	730	430	1300	940	485	1460	1310
	228.99	820	155	460	415	199	595	595									

m [kg]		DRM					
	s	71S12	71M12	90M12	100M12	100L12	
FA67		33	35	44	52	55	
FA67		34	36	46	53	56	
FAF: + 6.3 kg / F: + 2.8 kg / FF: + 8.9 kg							



→ 15



F 67R37

M _a [Nm]			DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
FA67R37 2 2	176	820	117	350	315	151	450	450	215	650	650	385	1150	830	435	1300	1170
	200	820	133	400	360	172	510	510	245	740	740	435	1310	950	495	1480	1330
	238	820	159	475	430	200	610	610	290	880	880	520	1560	1130	585		1580
	261	820	174	520	470	220	670	670	320	960	960	570		1240	645		
	297	820	198	590	535	250	760	760	365	1100	1100	650		1410	735		
	333	820	220	665	600	285	850	850	410	1230	1230	725		1580	820		
	392	820	260	780	705	335	1000	1000	485	1450	1450	850			970		
	454	820	300	900	820	385	1160	1160	560			990			1120		
	500	820	330	1000	900	425	1280	1280	615			1090			1230		
FA67R37 2 3	539	820	355	1060	960	455	1370	1370	655			1160			1310		
	634	820	415	1250	1130	535	1610	1610	775			1370			1550		
	722	820	475	1420	1290	610			880			1560					
	864	820	565		1540	730			1050								
	984	820	645			830			1200								
	1126	820	740			950			1370								
	1256	820	820			1060			1530								
	1437	820	940			1210											
	1631	820	1070			1380											
	1859	820	1220			1570											
FA67R37 3 2	2126	820	1400														
	2372	820	1560														
	175	820	115	345	310	148	440	440	210	640	640	375	1130	820	425	1280	1150
	205	820	135	405	365	174	520	520	250	750	750	440	1330	960	500	1500	1350
	231	820	152	455	410	196	585	585	280	840	840	500	1500	1080	565		1520
	257	820	169	505	455	215	650	650	310	940	940	555		1200	625		
	305	820	200	600	545	255	775	775	370	1110	1110	660		1430	745		
	338	820	220	665	600	285	850	850	410	1240	1240	730		1590	820		
	384	820	250	755	685	325	970	970	465	1400	1400	830			930		
	437	820	285	860	780	370	1110	1110	530	1600	1600	940			1060		
	509	820	335	1000	910	430	1290	1290	620			1100			1240		
	572	820	375	1130	1020	480	1450	1450	700			1230			1400		
	641	820	420	1260	1140	540	1620	1620	780			1380			1560		
	755	820	495	1490	1350	635			920			1630					
	858	820	565		1530	725			1050								
	970	820	635			820			1180								
	1102	820	725			930			1340								
	1271	820	830			1070			1550								
FA67R37 3 3	1429	820	940			1210											
	1635	820	1070			1380											
	1884	820	1240			1590											
	2106	820	1380														
	2439	820	1580														

m [kg]		DRM					
	s	71S12	71M12	90M12	100M12	100L12	
FA67R37	2 2	44	45	54	62	65	
FA67R37	2 3	44	46	55	62	65	
FA67R37	3 2	45	46	56	63	66	
FA67R37	3 3	46	47	56	63	66	

FAF: + 6.3 kg / F: + 2.8 kg / FF: + 8.9 kg


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	M_a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M_{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
FA77 	5.76	1080							7.3	22	22	13	39	28	15	44	39
	6.64	1080							8.4	25	25	15	45	32	17	51	45
	7.39	1080							9.4	28	28	17	50	36	19	56	50
	8.26	1080	5.6	17	15	7.3	22	22	10	31	31	19	56	40	21	63	56
	9.30	1080	6.4	19	17	8.2	25	25	12	35	35	21	63	45	24	71	64
	12.20	1500							15	46	46	27	82	60	31	93	83
	14.06	1500							18	54	54	32	95	69	36	107	96
	15.64	1500							20	60	60	35	105	76	40	119	107
	17.49	1500	12	36	32	15	46	46	22	67	67	39	118	85	44	133	120
	19.70	1500	13	40	37	17	52	52	25	75	75	44	133	96	50	150	135
	21.43	1500	15	44	40	19	56	56	27	82	82	48	144	105	54	163	146
	25.50	1500	17	52	47	22	67	67	32	97	97	57	172	124	65	194	174
	28.75	1430	20	59	53	25	76	76	36	109	109	65	194	140	73	215	196
	31.51	1380	22	65	58	28	83	83	40	120	120	71	210	154	80	235	215
	36.58	1110	25	75	68	32	96	96	46	139	139	82	245	179	93	275	245
FA77 	25.54	1450							32	96	96	57	170	123	64	192	172
	29.91	1500							37	112	112	66	199	144	75	220	200
	33.74	1500							42	127	127	75	220	163	85	250	225
	38.23	1500	26	77	70	33	100	100	48	144	144	85	250	184	96	285	255
	43.58	1500	29	88	80	38	113	113	55	164	164	97	290	210	109	325	290
	48.37	1500	33	98	89	42	126	126	61	182	182	107	320	230	121	360	325
	55.27	1500	37	112	101	48	144	144	69	205	205	123	365	265	139	415	370
	58.32	1500	39	118	107	51	152	152	73	215	215	129	385	280	146	435	390
	66.46	1500	45	135	122	58	173	173	83	245	245	147	440	320	167	495	445
	72.50	1500	49	147	133	63	189	189	91	270	270	161	480	345	182	545	485
	75.02	1500	51	152	137	65	195	195	94	280	280	166	495	360	188	560	505
	85.52	1500	58	173	157	74	220	220	107	320	320	190	565	410	210	640	575
	94.93	1500	64	192	174	82	245	245	119	355	355	210	630	455	235	710	640
	108.46	1500	73	215	199	94	280	280	136	405	405	240	720	520	270	810	730
	114.45	1500	77	230	205	99	295	295	143	430	430	250	760	550	285	860	770
	130.42	1500	88	260	235	113	335	335	164	490	490	285	860	625	325	980	880
	142.27	1500	96	285	260	123	370	370	178	535	535	315	940	685	355	1070	960
	166.47	1500	112	335	305	144	430	430	205	625	625	365	1100	800	415	1250	1120
	188.40	1500	127	380	345	164	490	490	235	705	705	415	1250	900	470	1410	1270
	198.31	1500	134	400	360	172	515	515	245	745	745	435	1310	950	495	1490	1330
	225.79	1500	152	455	410	196	585	585	280	840	840	500	1500	1080	565	1690	1520
	262.93	1500	178	530	480	225	680	680									
	281.71	1500	190	570	515	240	730	730									

m [kg]		71S12	71M12	DRM 90M12	100M12	100L12
FA77		57	58	67	75	78
FA77		58	60	69	76	79

FAF: + 6.6 kg / F: + 3.8 kg / FF: + 14.4 kg

→ 15



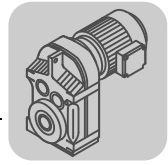
M _a [Nm]			DRM						
	i	M _{amax}	132S12			132M12			
		S1	S3	S1 /V	S1	S3	S1 /V		
		[Nm]	2.9	8.7	7.2	3.6	10.8	8.7	
FA77  2	5.76	1080	16	49	40	20	61	49	
	6.64	1080	19	56	47	23	70	56	
	7.39	1080	21	63	52	26	78	63	
	8.26	1080	23	70	58	29	87	70	
	9.30	1080	26	79	65	33	98	79	
	12.20	1500	35	104	86	43	129	104	
	14.06	1500	40	119	99	49	148	119	
	15.64	1500	44	133	110	55	165	133	
	17.49	1500	50	149	123	61	184	149	
	19.70	1500	56	167	138	69	205	167	
	21.43	1500	61	182	151	75	225	182	
	25.50	1500	72	215	179	90	265	215	
	28.75	1430	81	240	200	101	300	240	
	31.51	1380	89	265	220	111	330	265	
36.58	1110	104	310	255	129	385	310		
FA77  3	25.54	1450	71	210	177	89	265	210	
	29.91	1500	84	250	205	104	310	250	
	33.74	1500	94	280	230	117	350	280	
	38.23	1500	107	320	265	133	395	320	
	43.58	1500	122	365	300	151	450	365	
	48.37	1500	135	405	335	168	500	405	
	55.27	1500	155	460	380	192	575	460	
	58.32	1500	163	485	400	200	605	485	
	66.46	1500	186	555	460	230	690	555	
	72.50	1500	200	605	500	250	755	605	
	75.02	1500	205	625	520	260	780	625	
	85.52	1500	235	715	590	295	890	715	
	94.93	1500	265	795	655	325	980	795	
	108.46	1500	300	910	750	375	1120	910	
	114.45	1500	320	960	790	395	1190	960	
	130.42	1500	360	1090	900	450	1350	1090	
	142.27	1500	395	1190	980	490	1480	1190	
	166.47	1500	465	1390	1150	575	1730	1390	
	188.40	1500	525	1580	1300	650	1960	1580	
	198.31	1500	550	1660	1370	685	2060	1660	
	225.79	1500							
	262.93	1500							
	281.71	1500							
	m [kg]			DRM					
	s		132S12			132M12			
FA77	 2		93			105			
FA77	 3		94			105			
FAF: + 6.6 kg / F: + 3.8 kg / FF: + 14.4 kg									

→  15


F 77R37

M _a [Nm]			DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
FA77R37 2 2	292	1110	195	580	525	250	750	750	360	1080	1080	635	1910	1390	720	2170	1940
	346	1110	230	690	625	295	890	890	425	1280	1280	755		1640	850		
	370	1110	245	740	665	315	950	950	455	1370	1370	810		1760	910		
	433	1110	285	860	780	370	1110	1110	535	1600	1600	940		2060	1070		
	485	1110	320	970	870	415	1240	1240	600	1800	1800	1060			1200		
	571	1110	380	1140	1030	485	1460	1460	705	2120	2120	1250			1410		
	660	1110	440	1320	1190	565	1690	1690	810			1440			1630		
	706	1110	470	1410	1270	605	1810	1810	870			1540			1740		
	815	1110	540	1630	1470	695	2090	2090	1000			1780			2010		
FA77R37 2 3	893	1110	585	1760	1590	755			1090			1930			2180		
	1051	1110	690	2070	1870	890			1280								
	1185	1110	780		2110	1000			1450								
	1343	1110	880			1130			1640								
	1433	1110	940			1210			1750								
	1639	1110	1080			1380			2000								
	1759	1110	1150			1490			2150								
	2039	1110	1340			1720											
	2238	1110	1470			1890											
	2536	1110	1670			2140											
	2705	1110	1780														
	3095	1110	2030														
	3320	1110	2180														
FA77R37 3 2	199	1500	131	390	355	169	505	505	240	730	730	430	1290	930	485	1460	1310
	221	1500	146	435	395	187	560	560	270	810	810	475	1430	1040	540	1620	1450
	247	1500	163	485	440	205	625	625	300	900	900	530	1600	1160	600	1810	1620
	280	1500	185	550	500	235	710	710	340	1020	1020	605	1810	1310	685	2050	1840
	323	1500	210	635	575	270	820	820	395	1180	1180	695	2090	1520	790	2370	2120
	367	1500	240	725	655	310	930	930	445	1340	1340	790	2380	1720	890	2690	2410
	413	1500	270	810	735	345	1040	1040	505	1510	1510	890	2680	1940	1010		2720
	480	1500	315	940	850	405	1220	1220	585	1760	1760	1030		2250	1170		
	538	1500	350	1060	960	455	1360	1360	655	1970	1970	1160		2530	1310		
	615	1500	405	1210	1100	520	1560	1560	750	2250	2250	1330		2890	1500		
	710	1500	465	1400	1260	600	1800	1800	860	2600	2600	1530			1730		
	810	1500	530	1600	1440	685	2050	2050	990	2970	2970	1750			1980		
	910	1500	595	1790	1620	770	2310	2310	1110			1970			2220		
	1053	1500	690	2080	1880	890	2670	2670	1280			2280			2570		
	1200	1500	790	2370	2140	1010			1460			2590			2930		
	1354	1500	890	2670	2420	1140			1650			2930					
	1544	1500	1010		2760	1300			1880								
	1728	1500	1130			1460			2110								
FA77R37 3 3	2029	1500	1320			1690			2450								
	2284	1500	1480			1910			2760								
	2613	1500	1700			2180											
	2978	1500	1930			2490											
	3381	1500	2200			2830											
	3832	1500	2490														
	4435	1500	2880														

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
FA77R37 2 2		66	67	76	84	87	
FA77R37 2 3		66	67	76	84	87	
FA77R37 3 2		67	68	77	85	88	
FA77R37 3 3		67	68	78	85	88	
FAF: + 6.6 kg / F: + 3.8 kg / FF: + 14.4 kg							



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	M _a [Nm]		DRM																		
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12			132S12			132M12			
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	
			0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0	2.9	8.7	7.2	3.6	10.8	8.7	
FA87 	2	7.35	1530				9.3	28	28	17	50	36	19	56	50	21	62	52	26	77	62
		8.29	1530				11	32	32	19	56	40	21	63	57	23	70	58	29	87	70
		17.12	3000				22	65	65	38	115	84	43	130	117	48	145	120	60	180	145
		19.31	3000				25	74	74	43	130	94	49	147	132	55	164	136	68	200	164
		21.32	3000				27	81	81	48	144	104	54	162	146	60	181	150	75	220	181
		23.68	3000	21	62	62	30	90	90	53	159	116	60	180	162	67	200	166	83	245	200
		26.50	3000	23	70	70	34	101	101	59	178	129	67	200	181	75	225	186	93	275	225
		28.78	2450	25	76	76	37	110	110	65	194	140	73	215	197	81	240	200	101	300	240
	33.92	2610	30	89	89	43	129	129	76	225	166	86	255	230	96	285	235	119	355	285	
FA87 	3	39.30	2720				49	148	148	87	260	190	99	295	265	110	325	270	136	405	325
		45.28	2820				57	170	170	100	300	215	114	340	305	127	375	310	157	470	375
		50.36	2940				63	189	189	112	335	240	126	375	335	141	420	345	175	520	420
		76.39	3000				96	285	285	169	505	365	192	570	515	210	640	530	265	795	640
		88.01	3000				110	330	330	195	585	420	220	660	590	245	735	610	305	910	735
		97.89	3000				123	365	365	215	650	470	245	735	660	270	820	675	335	1010	820
		109.49	3000	95	285	285	137	410	410	240	725	525	270	820	735	305	910	760	380	1140	910
		123.29	3000	107	320	320	155	460	460	270	820	590	305	920	830	340	1030	850	425	1280	1030
		134.16	3000	116	345	345	168	500	500	295	890	645	335	1000	900	375	1120	930	465	1390	1120
		159.61	3000	139	415	415	200	600	600	350	1060	765	400	1200	1070	445	1330	1100	550	1660	1330
		179.97	3000	156	465	465	225	675	675	395	1190	860	450	1350	1210	500	1510	1240	620	1870	1510
		197.20	3000	171	510	510	245	740	740	435	1310	950	490	1480	1330	550	1650	1360	680	2050	1650
		228.93	3000	199	595	595	285	860	860	505	1520	1100	570	1720	1540	640	1920	1580	790	2380	1920
		255.37	3000	220	660	660	320	960	960	565	1690	1230	640	1920	1720	710	2140	1770	880	2650	2140
		270.68	3000	230	700	700	335	1010	1010	600	1800	1300	675	2030	1820	755	2270	1870	930	2810	2270

m [kg]		DRM																		
	s	71M12			90M12			100M12			100L12			132S12			132M12			
FA87		96			105			110			115			130			145			
FA87		99			110			115			120			135			145			
FAF: + 12.7 kg / F: + 5.7 kg / FF: + 21.3 kg																				




F 87R57

	M_a [Nm]		DRM														
	i	M_{amax}	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
FA87R57 2 2	193	3000	129	385	345	166	495	495	235	715	715	420	1260	910	475	1430	1280
	211	3000	141	420	380	181	540	540	260	780	780	460	1380	1000	520	1560	1400
	240	3000	160	480	430	205	615	615	295	890	890	525	1570	1140	590	1780	1600
	281	3000	187	560	505	240	720	720	345	1040	1040	615	1840	1330	695	2080	1870
	315	3000	210	630	570	270	810	810	390	1170	1170	690	2070	1500	780	2340	2100
	350	3000	230	700	630	300	900	900	430	1300	1300	765	2300	1660	860	2600	2330
	398	3000	265	795	720	340	1020	1020	490	1470	1470	870	2610	1890	980	2950	2650
	468	3000	310	930	840	400	1200	1200	575	1730	1730	1020	3070	2220	1150	3470	3120
	519	3000	345	1030	930	445	1330	1330	640	1920	1920	1130	3410	2470	1280	3850	3460
	592	3000	390	1180	1070	505	1520	1520	730	2190	2190	1290	3890	2820	1460	4390	3940
FA87R57 2 3	662	3000	440	1320	1190	565	1700	1700	820	2460	2460	1450	4350	3150	1640	4920	4410
	748	3000	490	1470	1330	630	1900	1900	910	2740	2740	1610	4850	3520	1830	5490	4920
	883	3000	580	1740	1570	745	2240	2240	1080	3240	3240	1910	5730	4150	2160		5810
	988	3000	650	1950	1760	830	2510	2510	1200	3620	3620	2130		4650	2410		
	1142	3000	750	2250	2040	960	2900	2900	1390	4190	4190	2470		5370	2790		
	1278	3000	840	2520	2280	1080	3240	3240	1560	4690	4690	2760			3120		
	1476	3000	970	2910	2640	1250	3750	3750	1800	5410	5410	3190			3610		
	1717	3000	1130	3390	3070	1450	4360	4360	2100			3710			4200		
	1913	3000	1260	3780	3420	1620	4860	4860	2340			4140			4680		
	2134	3000	1400	4210	3810	1800	5420	5420	2610			4620			5220		
	2524	3000	1660	4980	4510	2130			3080			5460					
	2857	3000	1880	5640	5110	2420			3490								
	3196	3000	2100		5710	2700			3910								
	3503	3000	2300			2960			4280								
	3919	3000	2580			3320			4790								
	4562	3000	3000			3860											
	4952	3000	3260			4190											
FA87R57 3 2	249	3000							300	910	910	535	1610	1170	605	1820	1640
	300	3000							365	1100	1100	645	1940	1410	730	2200	1970
	345	3000	225	680	615	290	870	870	420	1260	1260	745	2240	1620	840	2530	2270
	452	3000	295	890	800	380	1140	1140	550	1650	1650	970	2930	2120	1100	3310	2970
	515	3000	335	1010	920	435	1300	1300	630	1890	1890	1110	3340	2420	1260	3780	3390
	609	3000	400	1200	1080	515	1540	1540	745	2230	2230	1310	3950	2860	1490	4470	4010
	674	3000	440	1330	1200	570	1710	1710	820	2470	2470	1450	4370	3170	1640	4940	4440
	780	3000	510	1540	1390	660	1980	1980	950	2860	2860	1680	5060	3670	1900	5720	5140
	887	3000	580	1750	1580	750	2250	2250	1080	3250	3250	1920	5760	4170	2170		5840
	1010	3000	665	1990	1800	850	2560	2560	1230	3700	3700	2180		4750	2470		
	1148	3000	755	2260	2050	970	2910	2910	1400	4210	4210	2480		5400	2800		
	1300	3000	850	2570	2320	1100	3300	3300	1590	4770	4770	2810			3180		
	1493	3000	980	2950	2670	1260	3790	3790	1820	5480	5480	3230			3650		
	1709	3000	1120	3370	3050	1440	4340	4340	2090			3700			4180		
	1930	3000	1270	3810	3450	1630	4900	4900	2360			4170			4720		
	2199	3000	1440	4340	3930	1860	5580	5580	2690			4760			5380		
	2576	3000	1690	5090	4600	2180			3150			5570					
	2881	3000	1890	5690	5150	2440			3520								
	3244	3000	2130		5800	2740			3970								

Tabelle wird auf der Folgeseite fortgesetzt. Gewichtstabelle ist auf der Folgeseite.



M _a [Nm]			DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1 0.7	S3 2.1	S1 /V 1.9	S1 0.9	S3 2.7	S1 /V 2.7	S1 1.3	S3 3.9	S1 /V 3.9	S1 2.3	S3 6.9	S1 /V 5.0	S1 2.6	S3 7.8	S1 /V 7.0
FA87R57 	3721	3000	2420			3110			4490								
	4245	3000	2760			3550			5130								
	4954	3000	3220			4140			5990								
	5510	3000	3580			4610											
	6273	3000	4080			5250											
	7100	3000	4620			5940											
	8142	3000	5300														

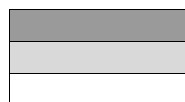
m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
FA87R57		110	115	125	130	135
FA87R57		115	115	125	130	135
FA87R57		115	115	125	135	135
FA87R57		115	115	125	135	140

FAF: + 12.7 kg / F: + 5.7 kg / FF: + 21.3 kg

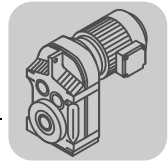

F 97

M_a [Nm]			DRM														
	i	M_{amax} [Nm]	90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0	2.9	8.7	7.2	3.6	10.8	8.7
FA97 	9.06	2360	11	34	34	20	61	44	23	69	62	26	77	64	32	96	77
	22.11	4300	28	84	84	50	149	108	56	168	151	63	188	155	78	230	188
	24.92	4300	32	95	95	56	168	122	63	190	170	71	210	175	88	260	210
	27.44	4300	35	104	104	62	185	134	70	205	187	78	230	193	96	285	230
	30.39	4300	39	116	116	68	200	148	77	230	205	86	255	210	107	320	255
	33.91	4300	43	129	129	76	225	166	86	255	230	96	285	235	119	355	285
	36.64	3070	46	139	139	82	245	179	93	275	250	104	310	255	129	385	310
	43.28	3070	55	165	165	97	290	210	110	325	295	123	365	300	152	455	365
FA97 	58.06	4300	73	215	215	129	385	275	146	435	390	162	485	400	200	600	485
	65.47	4300	82	245	245	145	435	315	164	490	440	183	545	450	225	680	545
	72.29	4300	91	270	270	160	480	345	181	540	485	200	605	500	250	750	605
	80.31	4300	101	300	300	178	530	385	200	600	540	220	670	555	275	830	670
	89.85	4300	113	335	335	199	595	430	225	675	605	250	750	620	310	930	750
	97.58	4300	122	365	365	215	645	470	240	730	655	270	810	675	335	1010	810
	112.99	4300	142	420	420	250	750	540	280	840	760	315	940	780	390	1170	940
	127.42	4300	160	475	475	280	840	610	315	950	860	355	1060	880	440	1320	1060
	140.71	4300	176	525	525	310	930	675	350	1050	940	390	1180	970	485	1460	1180
	156.30	4300	196	585	585	345	1040	750	390	1170	1050	435	1310	1080	540	1620	1310
	174.87	4300	215	655	655	385	1160	840	435	1310	1180	485	1460	1210	605	1820	1460
	189.92	4300	235	710	710	420	1260	910	475	1420	1280	530	1590	1310	655	1970	1590
	223.88	4300	280	840	840	495	1480	1070	560	1680	1510	625	1870	1550	775	2330	1870
	253.41	4300	315	950	950	560	1680	1220	635	1900	1710	705	2120	1750	870	2630	2120
	276.77	4300	345	1040	1040	610	1840	1330	690	2080	1860	770	2320	1920	960	2880	2320

m [kg]		DRM				
	s	90M12	100M12	100L12	132S12	132M12
FA97		165	175	175	190	205
FA97		170	180	180	195	210
FAF: + 21.7 kg / F: + 7.5 kg / FF: + 40.3 kg						



→ 15



F 97R57

	M _a [Nm]		DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
FA97R57 2 2	242	4300	161	480	435	205	620	620	295	890	890	530	1590	1150	595	1790	1610
	275	4300	183	550	495	235	705	705	340	1020	1020	600	1800	1310	680	2040	1830
	317	4300	210	630	570	270	810	810	390	1170	1170	690	2080	1510	785	2350	2110
	361	4300	240	720	650	305	920	920	445	1340	1340	790	2370	1710	890	2680	2400
	403	4300	265	800	725	345	1030	1030	495	1490	1490	880	2640	1920	990	2990	2680
	473	4300	315	940	850	405	1210	1210	585	1750	1750	1030	3100	2250	1170	3510	3150
	510	4300	340	1020	920	435	1310	1310	630	1890	1890	1110	3350	2420	1260	3790	3400
	569	4300	375	1130	1030	485	1460	1460	700	2110	2110	1240	3740	2710	1400	4220	3790
	667	4300	440	1330	1200	570	1710	1710	820	2470	2470	1460	4380	3170	1650	4950	4440
	760	4300	505	1520	1370	650	1950	1950	940	2820	2820	1660	4990	3620	1880	5640	5060
FA97R57 2 3	892	4300	590	1780	1610	760	2290	2290	1100	3310	3310	1950	5860	4240	2200	6620	5940
	1023	4300	670	2020	1820	860	2600	2600	1250	3750	3750	2210	6640	4810	2500	7510	6740
	1189	4300	780	2350	2120	1000	3020	3020	1450	4360	4360	2570	7720	5590	2910		7830
	1316	4300	860	2600	2350	1110	3340	3340	1610	4830	4830	2840	8540	6190	3220		
	1468	4300	960	2900	2620	1240	3730	3730	1790	5380	5380	3170		6910	3590		
	1741	4300	1140	3440	3110	1470	4420	4420	2130	6390	6390	3760		8190	4260		
	1971	4300	1290	3890	3520	1660	5000	5000	2410	7230	7230	4260			4820		
	2199	4300	1440	4340	3930	1860	5580	5580	2690	8070	8070	4760			5380		
	2448	4300	1610	4830	4370	2070	6220	6220	2990			5300			5990		
	3009	4300	1980	5940	5380	2540	7640	7640	3680			6510			7360		
	3357	4300	2210	6630	6000	2840	8530	8530	4100			7260			8210		
	3914	4300	2570	7730	7000	3310			4790			8470					
	4367	4300	2870		7810	3700			5340								
	5016	4300	3300			4240			6130								
	5680	4300	3740			4810											
	6338	4300	4170			5370											
FA97R57 3 2	195	4300							235	715	715	420	1260	910	475	1430	1280
	208	4300	137	410	370	176	525	525	250	760	760	450	1350	970	505	1520	1370
	245	4300	161	480	435	205	620	620	295	890	890	530	1590	1150	595	1790	1610
	285	4300	188	560	505	240	720	720	345	1040	1040	615	1850	1340	695	2090	1870
	363	4300	235	715	645	305	920	920	440	1330	1330	785	2350	1700	880	2660	2390
	406	4300	265	800	725	340	1030	1030	495	1490	1490	870	2630	1910	990	2980	2670
	467	4300	305	920	830	395	1180	1180	570	1710	1710	1010	3030	2190	1140	3420	3070
	529	4300	345	1040	940	445	1340	1340	645	1940	1940	1140	3430	2490	1290	3880	3480
	605	4300	395	1190	1080	510	1530	1530	740	2220	2220	1300	3920	2840	1480	4440	3980
	690	4300	450	1360	1230	580	1750	1750	840	2530	2530	1490	4480	3240	1680	5060	4540
	784	4300	515	1540	1400	660	1990	1990	950	2870	2870	1690	5090	3690	1910	5750	5160
	898	4300	590	1770	1600	760	2280	2280	1090	3290	3290	1940	5830	4220	2190	6590	5910
	1022	4300	670	2020	1820	860	2590	2590	1250	3750	3750	2210	6630	4810	2500	7500	6730
	1171	4300	770	2310	2090	990	2970	2970	1430	4290	4290	2530	7600	5510	2860	8590	7710
	1327	4300	870	2620	2370	1120	3370	3370	1620	4870	4870	2870		6240	3240		
	1527	4300	1000	3010	2730	1290	3880	3880	1860	5600	5600	3300		7180	3730		
	1722	4300	1130	3400	3080	1450	4370	4370	2100	6320	6320	3720		8100	4210		
	1970	4300	1290	3890	3520	1660	5000	5000	2410	7230	7230	4260			4820		
	2245	4300	1470	4430	4010	1900	5700	5700	2740	8240	8240	4860			5490		
	2553	4300	1680	5040	4560	2160	6480	6480	3120			5520			6240		
	2907	4300	1910	5740	5190	2460	7380	7380	3550			6290			7110		
	3352	4300	2200	6620	5990	2840	8520	8520	4100			7250			8200		
	3906	4300	2570	7720	6980	3300			4780			8450					

Table continued on next page. Weight table on next page.



M_a [Nm]			DRM														
i	M_{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
FA97R57 	4333	4300	2820	8460	7650	3620			5230								
	4961	4300	3230			4150			5990								
	5615	4300	3650			4700			6780								
	6469	4300	4210			5410			7820								
	7328	4300	4770			6130											
	8318	4300	5410			6960											
	9576	4300	6230			8010											
	10838	4300	7050														
	12324	4300	8020														

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
FA97R57 		170	175	185	190	195
FA97R57 		175	175	185	190	195
FA97R57 		180	180	190	195	200
FA97R57 		180	180	190	195	200

FAF: + 21.7 kg / F: + 7.5 kg / FF: + 40.3 kg



→ 15



F 107R77

	M _a [Nm]		DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1 0.7	S3 2.1	S1 /V 1.9	S1 0.9	S3 2.7	S1 /V 2.7	S1 1.3	S3 3.9	S1 /V 3.9	S1 2.3	S3 6.9	S1 /V 5.0	S1 2.6	S3 7.8	S1 /V 7.0
FA107R77 2 2	266	7840							325	980	980	580	1740	1260	655	1970	1770
	300	7840							370	1110	1110	655	1970	1420	740	2220	2000
	340	7840	225	680	615	290	870	870	420	1260	1260	745	2230	1610	840	2520	2260
	387	7840	255	770	700	330	990	990	475	1430	1430	840	2540	1840	950	2870	2580
	430	7840	285	860	775	365	1100	1100	530	1590	1590	940	2820	2040	1060	3190	2860
	491	7840	325	980	880	420	1260	1260	605	1820	1820	1070	3220	2330	1210	3640	3270
	518	7840	345	1030	930	440	1330	1330	640	1920	1920	1130	3400	2460	1280	3840	3450
	591	7840	390	1180	1060	505	1520	1520	730	2190	2190	1290	3880	2810	1460	4390	3940
FA107R77 2 3	644	7840	425	1280	1160	550	1650	1650	795	2390	2390	1410	4230	3060	1590	4780	4290
	696	7840							850	2550	2550	1500	4520	3270	1700	5110	4580
	800	7840	525	1580	1430	675	2030	2030	970	2930	2930	1730	5190	3760	1950	5870	5270
	923	7840	605	1820	1650	780	2340	2340	1120	3380	3380	1990	5990	4340	2250	6770	6080
	1015	7840	665	2000	1810	850	2570	2570	1240	3720	3720	2190	6590	4770	2480	7450	6680
	1193	7840	785	2350	2130	1010	3030	3030	1460	4380	4380	2580	7740	5610	2920	8760	7860
	1263	7840	830	2490	2250	1070	3210	3210	1540	4630	4630	2730	8200	5940	3090	9270	8320
	1436	7840	940	2830	2560	1210	3650	3650	1750	5270	5270	3100	9320	6750	3510	10500	9460
	1590	7840	1040	3140	2840	1340	4040	4040	1940	5830	5830	3440	10300	7480	3890	11600	10400
	1813	7840	1190	3580	3240	1530	4600	4600	2210	6650	6650	3920	11700	8530	4430	13300	11900
	2129	7840	1400	4200	3800	1800	5410	5410	2600	7810	7810	4600	13800	10000	5210	15600	14000
	2255	7840	1480	4450	4030	1910	5730	5730	2750	8270	8270	4880	14600	10600	5510		14800
	2563	7840	1680	5060	4580	2170	6510	6510	3130	9410	9410	5540		12000	6270		
	2839	7840	1870	5610	5070	2400	7210	7210	3470	10400	10400	6140		13300	6940		
	3347	7840	2200	6610	5980	2830	8500	8500	4090	12200	12200	7240			8190		
	3815	7840	2510	7540	6820	3230	9690	9690	4660	14000	14000	8260			9330		
	4016	7840	2640	7930	7180	3400	10200	10200	4910	14700	14700	8690			9820		
	4593	7840	3020	9080	8210	3890	11600	11600	5620			9940			11200		
	5383	7840	3540	10600	9620	4560	13600	13600									
FA107R77 3 2	190	7680							230	695	695	410	1230	890	465	1390	1250
	225	7680							275	820	820	485	1460	1050	550	1650	1480
	255	7680	168	500	455	215	645	645	310	930	930	550	1650	1200	620	1870	1680
	291	7680	192	575	520	245	735	735	355	1060	1060	630	1890	1360	710	2130	1910
	333	7680	215	655	595	280	840	840	405	1220	1220	720	2160	1560	810	2440	2190
	370	7680	240	730	660	310	940	940	450	1350	1350	800	2400	1740	900	2710	2430
	436	7680	285	860	775	365	1100	1100	530	1600	1600	940	2830	2050	1060	3200	2870
	489	7680							595	1790	1790	1050	3170	2300	1190	3590	3220
	560	7680							685	2050	2050	1210	3630	2630	1370	4110	3690
	640	7680	420	1260	1140	540	1620	1620	780	2340	2340	1380	4150	3010	1560	4690	4210
	736	7680							900	2700	2700	1590	4780	3460	1800	5400	4850
	834	7680	545	1640	1490	705	2110	2110	1020	3060	3060	1800	5410	3920	2040	6120	5490
	950	7680	625	1870	1690	800	2410	2410	1160	3480	3480	2050	6170	4470	2320	6970	6260
	1087	7680	715	2140	1940	920	2760	2760	1330	3990	3990	2350	7060	5110	2660	7980	7160
	1243	7680	810	2450	2220	1050	3150	3150	1520	4560	4560	2690	8070	5850	3040	9120	8190
	1401	7680	920	2760	2500	1180	3560	3560	1710	5140	5140	3030	9100	6590	3420	10200	9230
	1597	7680	1050	3150	2850	1350	4050	4050	1950	5860	5860	3450	10300	7510	3900	11700	10500
	1826	7680	1200	3600	3260	1540	4640	4640	2230	6700	6700	3950	11800	8590	4460	13400	12000
	2068	7680	1360	4080	3690	1750	5250	5250	2530	7590	7590	4470	13400	9730	5060	15100	13600
	2369	7680	1560	4680	4230	2000	6020	6020	2890	8690	8690	5120		11100	5790		
	2756	7680	1810	5440	4920	2330	7000	7000	3370	10100	10100	5960		12900	6740		
	3037	7680	2000	6000	5430	2570	7710	7710	3710	11100	11100	6570		14200	7430		

Table continued on next page. Weight table on next page.

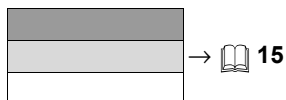


F..DRM – 50 Hz

F..DRM

M _a [Nm]			DRM														
	i	M _{amax}	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
FA107R77  3  3	3521	7680	2290	6870	6220	2940	8840	8840	4250	12700	12700	7530			8510		
	3948	7680	2570	7710	6970	3300	9910	9910	4770	14300	14300	8440			9540		
	4567	7680	2970	8920	8070	3820	11400	11400	5520			9770			11000		
	5223	7680	3400	10200	9230	4370	13100	13100	6310			11100			12600		
	5954	7680	3870	11600	10500	4980	14900	14900	7190			12700			14300		
	6767	7680	4400	13200	11900	5660			8180			14400					
	7674	7680	4990	14900	13500	6420			9270								
	8548	7680	5560		15100	7150			10300								
	10039	7680	6530			8400			12100								
	11348	7680	7380			9490											
	14767	7680	9610			12300											
	16888	7680	10900			14100											
	18933	7680	12300														
21652	7680	14000															

m [kg]		DRM									
	s	71S12		71M12		90M12		100M12		100L12	
FA107R77	 2  2	255		255		265		275		275	
FA107R77	 2  3	255		260		265		275		275	
FA107R77	 3  2	265		265		275		285		285	
FA107R77	 3  3	265		270		275		285		285	
FAF: + 21.0 kg / F: + 16.6 kg / FF: + 43.9 kg											





	M_a [Nm]		DRM					
	i	M_{amax}	132S12		132M12			
		[Nm]	S1 2.9	S3 8.7	S1 /V 7.2	S1 3.6	S3 10.8	S1 /V 8.7
FA107R77 2 2	266	7840	735	2200	1820	910	2730	2200
	300	7840	820	2480	2050	1020	3080	2480
	340	7840	930	2810	2330	1160	3490	2810
	387	7840	1060	3200	2650	1320	3980	3200
	430	7840	1180	3560	2950	1470	4420	3560
	491	7840	1350	4070	3360	1680	5050	4070
	518	7840	1430	4290	3550	1770	5330	4290
	591	7840	1630	4890	4050	2020	6080	4890
FA107R77 2 3	644	7840	1770	5330	4410	2200	6620	5330
	696	7840	1900	5700	4710	2350	7070	5700
	800	7840	2180	6550	5420	2710	8130	6550
	923	7840	2510	7550	6250	3120	9380	7550
	1015	7840	2770	8310	6870	3430	10300	8310
	1193	7840	3250	9770	8080	4040	12100	9770
	1263	7840	3440	10300	8560	4280	12800	10300
	1436	7840	3920	11700	9730	4860	14600	11700
	1590	7840	4340	13000	10700	5380		13000
	1813	7840	4940	14800	12200	6140		14800
	2129	7840	5810		14400	7210		
	2255	7840	6150		15200	7640		
	2563	7840	6990			8680		
	2839	7840	7750			9620		
	3347	7840	9130			11300		
	3815	7840	10400			12900		
	4016	7840	10900			13600		
	4593	7840						
	5383	7840						
FA107R77 3 2	190	7680	515	1550	1280	640	1930	1550
	225	7680	610	1840	1520	760	2280	1840
	255	7680	695	2080	1720	860	2590	2080
	291	7680	790	2380	1970	980	2950	2380
	333	7680	900	2720	2250	1120	3380	2720
	370	7680	1010	3030	2500	1250	3760	3030
	436	7680	1190	3570	2950	1470	4430	3570
	489	7680	1330	4000	3310	1650	4970	4000
	560	7680	1520	4580	3790	1890	5690	4580
	640	7680	1740	5240	4330	2160	6500	5240
	736	7680	2000	6020	4980	2490	7480	6020
	834	7680	2270	6830	5650	2820	8470	6830
	950	7680	2590	7780	6430	3210	9650	7780
	1087	7680	2960	8900	7360	3680	11000	8900
	1243	7680	3390	10100	8420	4210	12600	10100
	1401	7680	3820	11400	9490	4740	14200	11400
	1597	7680	4360	13000	10800	5410		13000
	1826	7680	4980	14900	12300	6180		14900
	2068	7680	5640		14000	7000		
	2369	7680	6460			8020		
	2756	7680	7520			9340		
	3037	7680	8290			10200		

Table continued on next page. Weight table on next page.



F..DRM – 50 Hz

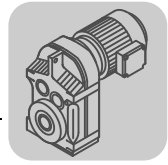
F..DRM

	M_a [Nm]		DRM					
	i	M_{amax} [Nm]	132S12		S1 /V 7.2	132M12		S1 /V 8.7
			S1 2.9	S3 8.7		S1 3.6	S3 10.8	
FA107R77 	3521	7680	9490			11700		
	3948	7680	10600			13200		
	4567	7680	12300			15200		
	5223	7680	14000					
	5954	7680						
	6767	7680						
	7674	7680						
	8548	7680						
	10039	7680						
	11348	7680						
	14767	7680						
	16888	7680						
	18933	7680						
	21652	7680						

m [kg]		DRM	
	s	132S12	132M12
FA107R77	 2  2	290	305
FA107R77	 2  3	290	305
FA107R77	 3  2	300	315
FA107R77	 3  3	300	315
FAF: + 21.0 kg / F: + 16.6 kg / FF: + 43.9 kg			



→ 15



F 127R77

	M _a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M _{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
FA127R77 	376	12000	245	740	670	315	950	950	460	1380	1380	810	2440	1760	920	2760	2470
	428	12000	280	840	765	360	1080	1080	520	1570	1570	920	2780	2010	1040	3140	2820
	495	12000	325	970	880	415	1250	1250	605	1810	1810	1070	3210	2330	1210	3630	3260
	549	12000	360	1080	980	465	1390	1390	670	2010	2010	1180	3560	2580	1340	4030	3610
	648	12000	425	1280	1150	545	1640	1640	790	2370	2370	1400	4200	3050	1580	4750	4270
	727	12000							880	2660	2660	1570	4720	3420	1770	5330	4790
	820	12000							1000	3010	3010	1770	5320	3850	2000	6020	5400
	930	12000	610	1830	1660	785	2360	2360	1130	3410	3410	2010	6040	4370	2270	6820	6120
	1077	12000	705	2120	1920	910	2730	2730	1310	3950	3950	2330	6990	5060	2630	7900	7090
	1220	12000	800	2410	2180	1030	3100	3100	1490	4470	4470	2640	7920	5740	2980	8950	8030
	1390	12000	910	2740	2480	1170	3530	3530	1700	5100	5100	3000	9020	6540	3400	10200	9160
	1606	12000	1050	3170	2870	1360	4080	4080	1960	5890	5890	3470	10400	7550	3930	11700	10500
	1784	12000	1170	3520	3190	1510	4530	4530	2180	6550	6550	3860	11500	8390	4360	13100	11700
	2038	12000	1340	4020	3640	1720	5180	5180	2490	7480	7480	4410	13200	9590	4980	14900	13400
	2357	12000	1550	4650	4210	1990	5990	5990	2880	8650	8650	5100	15300	11000	5760	17300	15500
	2672	12000	1760	5280	4770	2260	6790	6790	3270	9810	9810	5780	17300	12500	6540	19600	17600
FA127R77 	3031	12000	1970	5920	5350	2530	7610	7610	3660	10900	10900	6480	19400	14000	7320	21900	19700
	3454	12000	2240	6740	6100	2890	8670	8670	4170	12500	12500	7380	22100	16000	8350		22400
	3926	12000	2550	7660	6930	3280	9850	9850	4740	14200	14200	8390		18200	9490		
	4533	12000	2950	8850	8010	3790	11300	11300	5480	16400	16400	9690		21000	10900		
	5153	12000	3350	10000	9100	4310	12900	12900	6230	18600	18600	11000		23900	12400		
	5925	12000	3850	11500	10400	4950	14800	14800	7160	21400	21400	12600			14300		
	6715	12000	4370	13100	11800	5620	16800	16800	8110			14300			16200		
	7643	12000	4970	14900	13500	6390	19100	19100	9240			16300			18400		
	8831	12000	5740	17200	15600	7390	22100	22100	10600			18800			21300		
	10191	12000	6630	19900	18000	8530			12300			21800					
	11656	12000	7580	22700	20500	9750			14000								
	12912	12000	8400		22800	10800			15600								
	14722	12000	9580			12300											
	16656	12000	10800			13900			20100								
	19048	12000	12400			15900			23000								
	22323	12000	14500			18600											
	24478	12000	15900			20400											

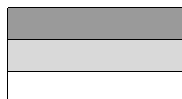
m [kg]		71S12	71M12	DRM 90M12	100M12	100L12
FA127R77		405	405	415	425	425
FA127R77		405	410	415	425	425
FAF: + 37.4 kg / F: + 36.5 kg / FF: + 81.1 kg						



→ 15



M _a [Nm]			DRM						
	i	M _{amax}	132S12		S1 /V	S1	132M12		
		[Nm]	S1	S3			S3	S1 /V	
			2.9	8.7			7.2	3.6	10.8
FA127R77  3  2	376	12000	1020	3070	2540	1270	3820	3070	
	428	12000	1160	3500	2900	1450	4350	3500	
	495	12000	1350	4050	3350	1670	5030	4050	
	549	12000	1490	4490	3720	1860	5580	4490	
	648	12000	1760	5300	4390	2190	6580	5300	
	727	12000	1980	5950	4920	2460	7390	5950	
	820	12000	2230	6710	5550	2770	8330	6710	
	930	12000	2530	7610	6300	3150	9450	7610	
	1077	12000	2940	8820	7300	3650	10900	8820	
	1220	12000	3330	9990	8260	4130	12400	9990	
	1390	12000	3790	11300	9420	4710	14100	11300	
	1606	12000	4380	13100	10800	5440	16300	13100	
	1784	12000	4870	14600	12000	6040	18100	14600	
	2038	12000	5560	16600	13800	6900	20700	16600	
	2357	12000	6430	19300	15900	7980	23900	19300	
	2672	12000	7290	21800	18100	9050		21800	
FA127R77  3  3	3031	12000	8170		20200	10100			
	3454	12000	9310		23100	11500			
	3926	12000	10500			13100			
	4533	12000	12200			15100			
	5153	12000	13800			17200			
	5925	12000	15900			19800			
	6715	12000	18100			22400			
	7643	12000	20600						
	8831	12000	23800						
	10191	12000							
	11656	12000							
	12912	12000							
	14722	12000							
	16656	12000							
	19048	12000							
	22323	12000							
	24478	12000							
m [kg]			DRM						
	s		132S12			132M12			
FA127R77	 3  2		440			455			
FA127R77	 3  3		440			455			
FAF: + 37.4 kg / F: + 36.5 kg / FF: + 81.1 kg									


 →  15



F 127R87

M _a [Nm]			DRM																	
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0	2.9	8.7	7.2	3.6	10.8	8.7
FA127R87 	418	12000				510	1530	1530	900	2710	1960	1020	3060	2750	1140	3420	2830	1410	4240	3420

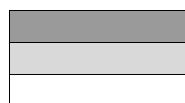
m [kg]		DRM					
	s	71M12	90M12	100M12	100L12	132S12	132M12
FA127R87	 3  2	435	445	450	455	470	480
FAF: + 37.4 kg / F: + 36.5 kg / FF: + 81.1 kg							

→ 15


F 157R97

	M_a [Nm]		DRM											
	i	M_{amax} [Nm]	71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
FA157R97 	302	18000				365	1100	1100	650	1960	1420	735	2210	1990
	446	18000				545	1630	1630	960	2890	2090	1090	3270	2930
	845	18000				1030	3100	3100	1820	5480	3970	2060	6200	5560
	953	18000				1160	3490	3490	2060	6190	4480	2330	6990	6280
	1169	18000	990	2970	2970	1430	4290	4290	2530	7590	5500	2860	8580	7700
	1308	18000	1100	3320	3320	1600	4800	4800	2830	8490	6150	3200	9600	8610
	1674	18000	1410	4250	4250	2040	6140	6140	3620	10800	7870	4090	12200	11000
	1944	18000				2370	7130	7130	4200	12600	9150	4750	14200	12800
	2185	18000				2670	8020	8020	4730	14100	10200	5340	16000	14300
FA157R97 	2427	18000	2050	6160	6160	2970	8910	8910	5250	15700	11400	5940	17800	15900
	2780	18000	2320	6980	6980	3360	10000	10000	5940	17800	12900	6720	20100	18100
	4130	18000				4990	14900	14900	8830	26500	19200	9980	29900	26800
	4831	18000				5840	17500	17500	10300	31000	22400	11600	35000	31400
	5404	18000	4520	13500	13500	6530	19600	19600	11500	34600	25100	13000		35100
	6295	18000	5260	15800	15800	7610	22800	22800	13400		29200	15200		
	7075	18000	5920	17700	17700	8550	25600	25600	15100		32900	17100		
	8026	18000				9700	29100	29100	17100			19400		
	9021	18000				10900	32700	32700	19200			21800		
	10033	18000				12100			21400			24200		
	12235	18000	10200	30700	30700	14700			26100			29500		
	13751	18000	11500	34500	34500	16600			29400			33200		
	16358	18000	13600			19700			34900					
	17984	18000	15000			21700								
	20212	18000	16900			24400								
	23464	18000	19600			28300								
	26173	18000	21900			31600								
	31434	18000	26300											

m [kg]		DRM			
	s	71M12	90M12	100M12	100L12
FA157R97		730	740	750	750
FA157R97		730	740	750	750
FAF: + 58.6 kg / F: + 20.6 kg / FF: + 127.5 kg					



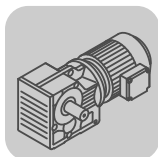
→ 15



M_a [Nm]			DRM					
	i	M_{amax}	132S12		S1 /V	132M12		S1 /V
		[Nm]	S1	S3		S1	S3	
			2.9	8.7		3.6	10.8	
FA157R97 	302	18000	820	2470	2040	1020	3070	2470
	446	18000	1210	3650	3020	1510	4530	3650
	845	18000	2300	6920	5720	2860	8590	6920
	953	18000	2600	7800	6450	3220	9680	7800
	1169	18000	3190	9570	7920	3960	11800	9570
	1308	18000	3570	10700	8860	4430	13200	10700
	1674	18000	4570	13700	11300	5670	17000	13700
	1944	18000	5300	15900	13100	6580	19700	15900
	2185	18000	5960	17800	14800	7400	22200	17800
	2427	18000	6620	19800	16400	8220	24600	19800
FA157R97 	2780	18000	7490	22400	18600	9300	27900	22400
	4130	18000	11100	33400	27600	13800		33400
	4831	18000	13000		32300	16100		
	5404	18000	14500			18000		
	6295	18000	16900			21000		
	7075	18000	19000			23600		
	8026	18000	21600			26800		
	9021	18000	24300			30200		
	10033	18000	27000			33500		
	12235	18000	33000					
	13751	18000						
	16358	18000						
	17984	18000						
	20212	18000						
	23464	18000						
	26173	18000						
	31434	18000						

m [kg]		DRM	
	s	132S12	132M12
FA157R97		760	780
FA157R97		770	780
FAF: + 58.6 kg / F: + 20.6 kg / FF: + 127.5 kg			





6 K..DRM – 50 Hz

6.1 K..DRM

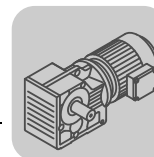
K 37

	M_a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M_{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
K37 	3.98	125	2.7	8.1	7.3	3.5	10	10	5.0	15	15	8.8	26	19	10.0	30	27
	5.36	140	3.6	11	9.8	4.7	14	14	6.7	20	20	12	36	26	13	40	36
	6.37	145	4.3	13	12	5.5	17	17	8.0	24	24	14	42	31	16	48	43
	6.80	150	4.6	14	12	5.9	18	18	8.5	26	26	15	45	33	17	51	46
	7.96	155	5.4	16	15	6.9	21	21	10.0	30	30	18	53	38	20	60	54
	8.91	160	6.0	18	16	7.7	23	23	11	34	34	20	59	43	22	67	60
	10.49	160	7.1	21	19	9.1	27	27	13	39	39	23	70	51	26	79	71
	12.14	160	8.2	25	22	11	32	32	15	46	46	27	81	59	30	91	82
	13.08	165	8.8	26	24	11	34	34	16	49	49	29	87	63	33	98	88
	15.31	175	10	31	28	13	40	40	19	58	58	34	102	74	38	115	103
	17.15	180	12	35	31	15	45	45	22	65	65	38	114	83	43	129	116
	20.19	185	14	41	37	18	53	53	25	76	76	45	134	97	51	152	136
	23.36	195	16	47	43	20	61	61	29	88	88	52	155	113	59	176	158
	24.99	200	17	51	46	22	65	65	31	94	94	55	166	121	63	188	169
	28.83	200	19	58	53	25	75	75	36	108	108	64	192	139	72	215	195
	29.96	200	20	61	55	26	78	78	38	113	113	66	199	144	75	225	200
	35.57	200	24	72	65	31	93	93	45	134	134	79	235	172	89	265	240
	37.97	200	26	77	70	33	99	99	48	143	143	84	250	183	95	285	255
	44.46	200	30	90	81	39	116	116	56	167	167	99	295	210	111	330	300
	49.79	200	34	101	91	43	130	130	62	187	187	110	330	240	125	370	335
	58.60	200	40	119	107	51	153	153	73	220	220	130	385	280	147		395
	67.80	200	46	137	124	59	177	177	85	255	255	150		325	170		
	72.54	200	49	147	133	63	189	189	91	270	270	161		345	182		
	83.69	200	56	169	153	73	215	215	105	310	310	186			205		
	97.81	200	66	198	179	85	250	250									
	106.38	200	72	215	195	92	275	275									

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
K37	3	19	20	29	37	40
KF: + 2.3 kg / KA: + -0.2 kg / KAF: + 1.5 kg						



→ 15

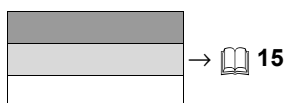


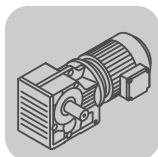
K 37R17

M _a [Nm]			DRM					
i	M _{amax} [Nm]		S1	71S12 S3	S1 /V	S1	71M12 S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7
K37R17  3  2	96	200	63	190	172	81	240	240
	110	200	72	215	197	93	275	275
	127	200	84	250	225	108	320	320
	136	200	90	265	240	115	345	345
	160	200	105	315	285	136		
	181	200	119	355	320	153		
	205	200	135		365	174		
	234	200	154			198		
	267	200	176			225		
	304	200	200			255		
	346	200	225			290		
	396	200	260			335		
	451	200	295			380		
	512	200	335					
	585	200	385					

m [kg]		DRM	
	s	71S12	71M12
K37R17	 3  2	21	23
K37R17	 3  3	21	23

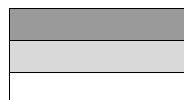
KF: + 2.3 kg / KA: + -0.2 kg / KAF: + 1.5 kg



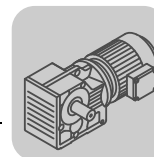

K 47

M _a [Nm]			DRM														
i	M _{amax}		71S12			71M12			90M12			100M12			100L12		
	[Nm]		S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
K47  3	4.64	205							5.8	17	17	10	31	22	12	35	31
	5.81	230	3.9	12	11	5.0	15	15	7.3	22	22	13	39	28	15	44	39
	6.58	240	4.4	13	12	5.7	17	17	8.2	25	25	15	44	32	16	49	44
	7.36	250	5.0	15	13	6.4	19	19	9.2	28	28	16	49	35	18	55	50
	8.56	270	5.8	17	16	7.4	22	22	11	32	32	19	57	41	21	64	58
	9.10	280	6.1	18	17	7.9	24	24	11	34	34	20	61	44	23	68	61
	10.56	280	7.1	21	19	9.2	27	27	13	40	40	23	70	51	26	79	71
	11.77	280	7.9	24	22	10	31	31	15	44	44	26	78	57	30	89	79
	12.19	350	8.2	25	22	11	32	32	15	46	46	27	81	59	31	92	82
	13.65	360	9.2	28	25	12	36	36	17	51	51	30	91	66	34	103	92
	15.86	380	11	32	29	14	41	41	20	60	60	35	106	76	40	119	107
	16.86	380	11	34	31	15	44	44	21	63	63	37	112	81	42	127	114
	19.58	400	13	40	36	17	51	51	25	74	74	43	130	94	49	147	132
	21.81	400	15	44	40	19	57	57	27	82	82	48	145	105	55	164	147
	24.06	400	16	49	44	21	63	63	30	90	90	53	160	116	60	181	162
	25.91	400	17	52	47	22	67	67	32	97	97	57	172	125	65	195	175
	29.32	400	20	59	54	25	76	76	37	110	110	65	195	141	74	220	198
	31.30	400	21	63	57	27	82	82	39	118	118	69	205	151	78	235	210
	35.39	400	24	72	65	31	92	92	44	133	133	79	235	171	89	265	235
	39.61	400	27	80	73	34	103	103	50	149	149	88	260	191	99	295	265
	46.03	400	31	93	84	40	120	120	58	173	173	102	305	220	115	345	310
	48.95	400	33	99	90	42	127	127	61	184	184	109	325	235	123	365	330
	56.83	400	38	115	104	49	148	148	71	210	210	126	375	270	143	425	380
	63.30	400	43	128	116	55	165	165	79	235	235	140	420	305	159	475	425
	69.84	400	47	141	128	61	182	182	88	260	260	155	460	335	175	525	470
	75.20	400	51	152	138	65	196	196	94	280	280	167	500	360	189	565	505
	85.12	400	57	172	156	74	220	220	107	320	320	189	565	410	210	640	570
	90.86	400	61	184	166	79	235	235	114	340	340	200	600	435	225	680	610
104.37	400	70	210	191	91	270	270	131	390	390	230	690	500	260	785	700	
121.48	400	82	245	220	105	315	315										
131.87	400	89	265	240	114	340	340										

m [kg]		DRM										
	s	71S12			71M12		90M12		100M12		100L12	
K47		25			26		36		43		46	
KF: + 3.2 kg / KA: + -0.9 kg / KAF: + 2.0 kg												



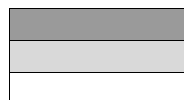
→ 15



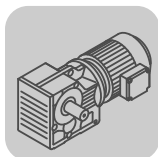
K 47R37

M _a [Nm]			71S12			71M12			DRM 90M12			100M12			100L12		
	i	M _{amax} [Nm]	S1 0.7	S3 2.1	S1 /V 1.9	S1 0.9	S3 2.7	S1 /V 2.7	S1 1.3	S3 3.9	S1 /V 3.9	S1 2.3	S3 6.9	S1 /V 5.0	S1 2.6	S3 7.8	S1 /V 7.0
K47R37 	94	400	62	186	168	80	235	235	115	345	345	200	610	440	230	690	615
	99	400	65	196	177	84	250	250	121	360	360	210	640	465	240	725	650
	112	400	74	220	200	95	280	280	137	410	410	240	725	525	270		735
	131	400	86	255	230	111	330	330	160	480	480	280		615	320		
	153	400	101	300	270	130	385	385	187	560	560	330		720	370		
	171	400	113	335	305	145	430	430	205	625	625	370			415		
	198	400	130	390	350	168	500	500	240	725	725	425			480		
	225	400	148	440	400	191	570	570	275			485			550		
	256	400	169	505	455	215	650	650	310			550			625		
	289	400	190	570	515	240	730	730	350			625			705		
	327	400	215	645	580	275			400			705					
	375	400	245	740	670	315			455								
	426	400	280		760	360			520								
	495	400	325			415			605								
	552	400	360			465			675								
	639	400	420			540			780								
	718	400	470			605											
	831	400	545			700											
	945	400	620														
	1097	400	720														

m [kg]		71S12	71M12	DRM 90M12	100M12	100L12
	s					
K47R37	 3  2	36	37	46	54	57
K47R37	 3  3	36	37	46	54	57
KF: + 3.2 kg / KA: + -0.9 kg / KAF: + 2.0 kg						

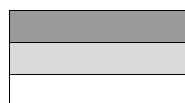


→ 15

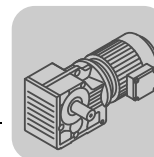

K 57

M_a [Nm]			DRM														
i	M_{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
K57  3	4.69	300							5.9	18	18	10	31	23	12	35	32
	6.57	345							8.2	25	25	15	44	32	16	49	44
	7.55	365	5.1	15	14	6.6	20	20	9.5	28	28	17	50	36	19	57	51
	8.71	390	5.9	18	16	7.6	23	23	11	33	33	19	58	42	22	66	59
	9.59	405	6.5	19	18	8.3	25	25	12	36	36	21	64	46	24	72	65
	11.26	415	7.6	23	21	9.8	29	29	14	42	42	25	75	54	28	85	76
	11.92	415	8.0	24	22	10	31	31	15	45	45	26	79	57	30	90	80
	13.25	510							17	50	50	29	88	64	33	100	89
	15.22	535	10	31	28	13	40	40	19	57	57	34	101	73	38	114	103
	17.57	555	12	36	32	15	46	46	22	66	66	39	117	85	44	132	119
	19.34	575	13	39	35	17	50	50	24	73	73	43	129	93	48	145	131
	22.71	600	15	46	42	20	59	59	28	85	85	50	151	110	57	171	153
	24.05	600	16	49	44	21	63	63	30	90	90	53	160	116	60	181	162
	27.34	600	18	55	50	24	71	71	34	103	103	61	182	132	69	205	185
	30.28	600	20	61	55	26	79	79	38	114	114	67	200	146	76	225	200
	35.70	600	24	72	65	31	93	93	45	134	134	79	235	172	90	265	240
	38.49	600	26	78	71	33	100	100	48	145	145	85	255	186	97	285	255
	44.43	600	30	90	81	39	116	116	56	167	167	99	295	210	111	330	295
	48.89	600	33	99	90	42	127	127	61	184	184	108	325	235	123	365	330
	57.42	600	39	116	105	50	150	150	72	215	215	127	380	275	144	430	385
	60.81	600	41	123	111	53	158	158	76	225	225	135	400	290	152	455	410
	69.12	600	47	140	127	60	180	180	87	255	255	153	455	330	173	515	465
	76.56	600	52	155	140	66	199	199	96	285	285	170	505	365	192	575	515
	90.26	600	61	183	165	78	235	235	113	335	335	200	600	435	225	675	605
	102.88	600	69	205	189	89	265	265	129	385	385	225	680	495	255	770	690
	108.29	600	73	215	198	94	280	280	136	405	405	240	720	520	270	810	730
	123.85	600	84	250	225	108	320	320	155	465	465	270	820	595	310	930	830
	145.14	600	98	290	265	126	375	375									

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
K57	 3	31	32	42	49	52
KF: + 4.7 kg / KA: + -2.1 kg / KAF: + 3.6 kg						



→ 15

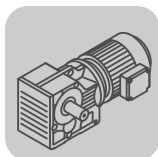


K 57R37

M _a [Nm]			71S12			71M12			DRM 90M12			100M12			100L12		
i	M _{amax}	[Nm]	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
K57R37 	97	600	64	192	174	82	245	245	119	355	355	210	630	455	235	710	635
	111	600	73	215	199	94	280	280	136	405	405	240	720	520	270	810	730
	129	600	85	255	230	109	325	325	158	470	470	275	830	605	315	940	850
	145	600	96	285	255	123	365	365	177	530	530	310	940	680	350	1060	950
	166	600	109	325	295	141	420	420	200	605	605	355	1070	780	405		1090
	192	600	127	375	340	163	485	485	230	700	700	415		900	465		
	215	600	142	425	380	182	545	545	260	785	785	465		1010	525		
	246	600	162	485	440	205	625	625	300	900	900	530		1150	600		
	280	600	185	550	500	235	710	710	340	1020	1020	605			685		
	319	600	210	630	570	270	810	810	390	1170	1170	690			780		
	362	600	235	715	645	305	920	920	440			780			880		
	421	600	275	830	750	355	1070	1070	515			910			1030		
	473	600	310	930	840	400			575			1020			1150		
	544	600	355	1070	970	460			665			1170					
	615	600	405		1100	520			750								
	699	600	460			590			850								
	806	600	530			680			980								
	906	600	595			765			1100								
	1036	600	680			870											
	1174	600	770			990											
	1354	600	890			1140											
	1539	600	1010														
	1743	600	1140														

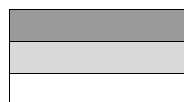
m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
K57R37	 3  2	42	43	52	59	62
K57R37	 3  3	42	43	52	60	63
KF: + 4.7 kg / KA: + -2.1 kg / KAF: + 3.6 kg						



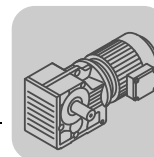

K 67

M_a [Nm]			DRM														
i	M_{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
K67 	5.20	350							6.5	20	20	12	35	25	13	39	35
	7.28	420							9.1	27	27	16	48	35	18	55	49
	8.37	440	5.7	17	15	7.3	22	22	10	31	31	19	56	40	21	63	57
	9.66	480	6.5	20	18	8.4	25	25	12	36	36	21	64	47	24	73	65
	10.63	500	7.2	22	19	9.2	28	28	13	40	40	24	71	51	27	80	72
	12.48	530	8.4	25	23	11	32	32	16	47	47	28	83	60	31	94	84
	13.22	670							17	50	50	29	88	64	33	99	89
	15.19	700	10	31	28	13	40	40	19	57	57	34	101	73	38	114	103
	17.54	740	12	36	32	15	46	46	22	66	66	39	117	85	44	132	118
	19.30	760	13	39	35	17	50	50	24	73	73	43	128	93	48	145	130
	22.66	780	15	46	42	20	59	59	28	85	85	50	151	109	57	170	153
	24.00	800	16	49	44	21	62	62	30	90	90	53	160	116	60	181	162
	27.28	820	18	55	50	24	71	71	34	103	103	61	182	132	68	205	184
	30.22	820	20	61	55	26	79	79	38	114	114	67	200	146	76	225	200
	35.62	820	24	72	65	31	93	93	45	134	134	79	235	172	89	265	240
	38.39	800	26	78	70	33	100	100	48	144	144	85	255	185	96	285	255
	44.32	820	30	90	81	38	115	115	56	167	167	98	290	210	111	330	295
	48.77	820	33	99	89	42	127	127	61	183	183	108	320	235	122	365	325
	57.28	820	39	116	105	50	149	149	72	215	215	127	380	275	144	430	385
	60.66	820	41	123	111	53	158	158	76	225	225	135	400	290	152	455	405
	68.95	820	47	140	126	60	180	180	86	255	255	153	455	330	173	515	465
	76.37	820	52	155	140	66	199	199	96	285	285	169	505	365	191	570	515
	90.04	820	61	182	165	78	230	230	113	335	335	200	595	430	225	675	605
	102.62	820	69	205	188	89	265	265	129	385	385	225	680	490	255	770	690
	108.03	820	73	215	198	94	280	280	135	405	405	235	715	520	270	810	725
	123.54	820	83	250	225	107	320	320	155	460	460	270	820	595	305	920	830
	144.79	820	98	290	265	126	375	375									

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
K67		36	38	48	55	58
KF: + 5.6 kg / KA: + -2.7 kg / KAF: + 3.0 kg						



→ 15



K 67R37

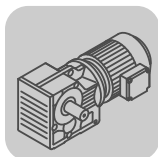
M _a [Nm]			DRM														
i	M _{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
K67R37  3  2	122	820	80	240	215	103	310	310	149	445	445	260	790	570	295	890	800
	144	820	95	280	255	122	365	365	176	525	525	310	930	675	350	1050	940
	166	820	109	325	295	141	420	420	200	605	605	355	1070	780	405	1210	1090
	191	820	126	375	340	162	485	485	230	700	700	410	1240	890	465	1400	1250
	217	820	143	425	385	184	550	550	265	795	795	465	1400	1020	530	1590	1430
	246	820	162	485	440	205	625	625	300	900	900	530	1590	1150	600		1620
	279	820	184	550	495	235	705	705	340	1020	1020	600		1310	680		
	323	820	210	635	575	270	820	820	395	1180	1180	695		1520	790		
	361	820	235	710	645	305	910	910	440	1320	1320	780			880		
	420	820	275	830	750	355	1060	1060	510	1540	1540	900			1020		
	471	820	310	930	840	395	1190	1190	575			1010			1150		
	542	820	355	1070	960	455	1370	1370	660			1170			1320		
	613	820	400	1210	1090	515	1550	1550	750			1320			1500		
	697	820	455	1370	1240	590			850			1500					
	793	820	520	1560	1410	670			970								
	903	820	595		1610	765			1100								
	1034	820	680			870			1260								
	1171	820	770			990			1430								
	1351	820	890			1140											
	1535	820	1010			1300											
	1739	820	1140			1470											
K67R37  3  3	1981	820	1280														
	2244	820	1460														

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
K67R37  3  2		47	48	58	65	68	
K67R37  3  3		48	49	58	66	68	

KF: + 5.6 kg / KA: + -2.7 kg / KAF: + 3.0 kg



→ 15



K..DRM – 50 Hz K..DRM

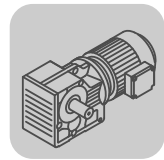
K 77

M _a [Nm]			DRM																				
i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12			132S12			132M12			
		S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	
		0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0	2.9	8.7	7.2	3.6	10.8	8.7	
K77  3	7.24	820							9.1	27	27	16	48	35	18	54	49	20	61	50	25	75	61
	8.48	890							11	32	32	19	56	41	21	64	57	24	71	59	29	88	71
	9.56	940							12	36	36	21	64	46	24	72	65	27	80	66	33	100	80
	10.84	990	7.3	22	20	9.4	28	28	14	41	41	24	72	52	27	82	73	30	91	75	38	113	91
	12.36	1000	8.3	25	23	11	32	32	15	46	46	27	82	60	31	93	83	35	104	86	43	129	104
	13.52	1340							17	51	51	30	90	65	34	102	91	38	113	94	47	141	113
	15.84	1400							20	60	60	35	105	76	40	119	107	44	133	110	55	165	133
	17.87	1450							22	67	67	40	119	86	45	134	121	50	150	124	62	186	150
	20.25	1500	14	41	37	18	53	53	25	76	76	45	135	98	51	152	137	57	170	141	70	210	170
	23.08	1550	16	47	42	20	60	60	29	87	87	51	154	111	58	174	156	65	194	160	80	240	194
	25.62	1550	17	52	47	22	67	67	32	96	96	57	170	124	64	193	173	72	210	178	89	265	210
	29.27	1550	20	59	54	25	76	76	37	110	110	65	195	141	73	220	198	82	245	200	102	300	245
	30.89	1550	21	63	57	27	80	80	39	116	116	69	205	149	77	230	205	86	255	210	107	320	255
	35.20	1550	24	71	65	31	92	92	44	132	132	78	230	170	88	260	235	98	295	240	122	365	295
	38.39	1500	26	78	70	33	100	100	48	144	144	85	255	185	96	285	255	107	320	265	133	395	320
	40.04	1550							50	151	151	89	265	193	100	300	270	112	335	275	139	415	335
	45.16	1550							57	170	170	100	300	215	113	335	300	126	375	310	157	470	375
	51.18	1550	35	104	94	44	133	133	64	193	193	114	340	245	128	385	345	143	425	355	178	530	425
	58.34	1550	39	118	107	51	152	152	73	215	215	129	385	280	146	435	390	163	485	405	200	605	485
	64.75	1550	44	131	119	56	169	169	81	240	240	144	430	310	162	485	435	181	540	445	220	670	540
	73.99	1550	50	150	136	64	193	193	93	275	275	164	490	355	186	555	495	205	620	510	255	770	620
	78.07	1550	53	158	143	68	200	200	98	290	290	173	515	375	196	585	525	215	655	540	270	810	655
	88.97	1550	60	180	163	77	230	230	112	330	330	197	590	425	220	665	600	245	745	615	305	920	745
	97.05	1550	66	197	178	84	250	250	122	365	365	215	645	465	240	730	655	270	810	670	335	1010	810
	113.56	1550	77	225	205	99	295	295	142	425	425	250	755	545	280	850	765	315	950	785	390	1180	950
	128.52	1550	87	260	235	112	330	330	161	480	480	285	850	615	320	960	860	355	1070	890	445	1330	1070
	135.28	1550	91	270	245	117	350	350	170	505	505	300	900	650	335	1010	910	375	1130	930	465	1400	1130
	154.02	1550	104	310	280	134	400	400	193	575	575	340	1020	740	385	1150	1030						
	179.37	1450	121	360	325	156	465	465															
	192.18	1450	130	385	350	167	500	500															

m [kg]		DRM							
	s	71S12	71M12	90M12	100M12	100L12	132S12	132M12	
K77	3	62	64	72	80	83	98	110	
KF: + 8.3 kg / KA: + 7.5 kg / KAF: + 0.4 kg									



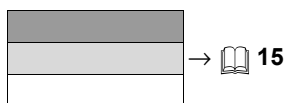
→ 15

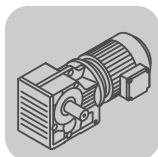


K 77R37

M _a [Nm]			DRM														
i	M _{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
K77R37  3  2	154	1550	101	300	275	130	390	390	188	565	565	330	1000	720	375	1130	1010
	175	1550	115	345	310	148	440	440	210	640	640	375	1130	820	425	1280	1150
	195	1550	129	385	345	165	495	495	235	715	715	420	1260	910	475	1430	1280
	221	1550	146	435	395	187	560	560	270	810	810	475	1430	1040	540	1620	1450
	252	1550	166	495	450	210	640	640	305	920	920	545	1630	1180	615	1850	1660
	290	1550	191	570	515	245	735	735	350	1060	1060	625	1880	1360	705	2120	1910
	328	1550	215	645	585	275	830	830	400	1200	1200	710	2130	1540	800	2400	2160
	367	1550	240	725	655	310	930	930	445	1340	1340	790	2380	1720	890	2690	2410
	428	1550	280	840	765	360	1080	1080	520	1570	1570	920	2780	2010	1040		2820
	485	1550	315	950	860	410	1230	1230	590	1780	1780	1050		2280	1180		
	552	1550	360	1090	980	465	1400	1400	675	2020	2020	1190		2590	1350		
	622	1550	405	1220	1110	525	1580	1580	760	2280	2280	1340		2920	1520		
	709	1550	465	1400	1260	600	1800	1800	860	2600	2600	1530			1730		
	815	1550	535	1610	1450	690	2070	2070	990	2990	2990	1760			1990		
	924	1550	605	1820	1650	780	2340	2340	1130			2000			2260		
	1053	1550	690	2080	1880	890	2670	2670	1280			2280			2570		
	1218	1550	800	2400	2170	1030	3090	3090	1490			2630			2980		
	1388	1550	910	2740	2480	1170			1690			3000					
	1514	1550	990	2990	2700	1280			1850								
	1772	1550	1160			1500			2160								
	2050	1550	1350			1730			2500								
K77R37  3  3	2370	1550	1540			1980			2860								
	2717	1550	1760			2270											
	2901	1550	1880			2420											
	3485	1550	2260			2910											
	3961	1550	2570														
	4489	1550	2920														

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
K77R37	 3  2	71	72	81	89	92
K77R37	 3  3	71	72	82	89	92
KF: + 8.3 kg / KA: + -7.5 kg / KAF: + 0.4 kg						



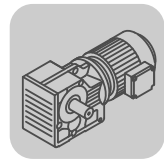

K 87

M_a [Nm]			DRM																	
i	M_{amax}	[Nm]	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0	2.9	8.7	7.2	3.6	10.8	8.7
K87  3	11.17	1500				14	42	42	25	74	54	28	84	75	31	94	78	39	116	94
	16.00	1800	14	42	42	20	60	60	35	106	77	40	120	108	45	134	111	56	167	134
	19.45	2300				24	73	73	43	129	94	49	146	131	54	163	135	68	200	163
	22.41	2300				28	84	84	50	149	108	56	169	151	63	188	156	78	230	188
	24.92	2500				31	94	94	55	166	120	62	187	168	70	205	173	87	255	205
	27.88	2600	24	73	73	35	105	105	62	186	134	70	205	188	78	230	194	97	290	230
	31.39	2700	27	82	82	39	118	118	70	205	151	79	235	210	88	260	215	109	325	260
	49.16	2700				62	185	185	109	325	235	123	365	330	137	410	340	171	510	410
	56.64	2700				71	210	210	126	375	270	142	425	380	158	475	390	197	585	475
	63.00	2700				79	235	235	140	415	300	158	470	425	176	525	435	215	655	525
	70.46	2700	61	183	183	88	265	265	156	465	335	177	530	475	197	590	485	240	730	590
	79.34	2700	69	205	205	99	295	295	176	525	380	199	595	535	220	665	550	275	820	665
	86.34	2700	75	220	220	108	320	320	192	570	415	215	645	580	240	720	595	295	890	720
	102.71	2700	89	265	265	129	385	385	225	680	495	255	770	690	285	860	710	355	1060	860
	115.82	2700	101	300	300	145	435	435	255	770	555	290	870	780	320	970	800	400	1200	970
	126.91	2700	110	330	330	159	475	475	280	840	610	315	950	850	350	1060	880	440	1320	1060
	147.32	2700	128	380	380	185	550	550	325	980	710	365	1100	990	410	1230	1020	510	1530	1230
	164.34	2700	143	425	425	205	615	615	360	1090	790	410	1230	1100	455	1370	1140	570	1710	1370
	174.19	2700	151	450	450	215	655	655	385	1150	830	435	1310	1170	485	1460	1200	600	1810	1460
	197.37	2700	171	510	510	245	740	740	435	1310	950	490	1480	1330						

m [kg]		DRM					
s		71M12	90M12	100M12	100L12	132S12	132M12
K87	 3	99	110	115	120	135	145
KF: + 9.2 kg / KA: + -12.1 kg / KAF: + 1.1 kg							



→ 15

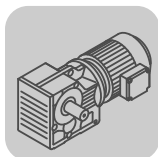


K 87R57

M _a [Nm]			DRM														
i	M _{amax} [Nm]		71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
K87R57  3  2	141	2600	93	275	250	119	355	355	173	515	515	305	910	660	345	1030	920
	159	2700	105	310	280	135	400	400	195	580	580	340	1030	745	385	1160	1040
	183	2700	121	360	325	155	465	465	220	670	670	395	1180	860	445	1340	1200
	201	2700	132	395	355	170	510	510	245	735	735	435	1300	940	490	1470	1320
	236	2700	156	465	420	200	595	595	285	860	860	510	1530	1110	575	1730	1550
	250	2700	165	490	445	210	635	635	305	910	910	540	1620	1170	610	1830	1640
	294	2700	194	580	525	245	745	745	355	1070	1070	635	1900	1380	715	2150	1930
	330	2700	215	650	590	275	830	830	400	1210	1210	710	2140	1550	800	2420	2170
	373	2700	245	735	665	315	940	940	455	1360	1360	800	2420	1750	910	2730	2450
	426	2700	280	840	760	360	1080	1080	520	1560	1560	920	2760	2000	1040	3120	2800
	474	2700	310	930	840	400	1200	1200	580	1740	1740	1020	3070	2230	1160	3480	3120
	562	2700	370	1110	1000	475	1420	1420	685	2060	2060	1210	3650	2640	1370	4120	3700
	638	2700	420	1260	1140	540	1620	1620	780	2340	2340	1380	4140	3000	1560	4680	4200
	726	2700	475	1430	1290	615	1840	1840	880	2660	2660	1570	4710	3410	1770	5330	4780
	837	2700	550	1650	1490	705	2120	2120	1020	3070	3070	1810		3930	2040		
	951	2700	625	1880	1700	800	2410	2410	1160	3490	3490	2050		4470	2320		
	1078	2700	710	2130	1920	910	2740	2740	1310	3950	3950	2330		5070	2630		
	1229	2700	800	2420	2190	1040	3120	3120	1500	4510	4510	2660			3000		
	1415	2700	930	2790	2530	1190	3590	3590	1730	5190	5190	3060			3460		
	1657	2700	1090	3270	2960	1400	4210	4210	2020			3580			4050		
	1854	2700	1220	3660	3310	1570	4710	4710	2260			4010			4530		
	2088	2700	1370	4120	3730	1760	5300	5300	2550			4520			5110		
K87R57  3  3	2371	2700	1540	4630	4190	1980			2860			5070					
	2728	2700	1770	5320	4820	2280			3290								
	3107	2700	2020			2600			3750								
	3609	2700	2340			3020			4360								
	4037	2700	2620			3370			4880								
	4562	2700	2970			3810											
	5240	2700	3410			4380											
	5930	2700	3860			4960											
	6832	2700	4440														
	7854	2700	5110														

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
K87R57  3  2		115	115	125	135	135	
K87R57  3  3		115	120	130	135	140	
KF: + 9.2 kg / KA: + 12.1 kg / KAF: + 1.1 kg							

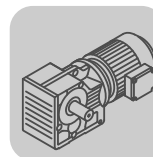



K 97

	M_a [Nm]		DRM														
	i	M_{amax} [Nm]	90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0	2.9	8.7	7.2	3.6	10.8	8.7
K97  3	24.75	4300	31	93	93	55	165	119	62	186	167	69	205	172	86	255	205
	27.91	4300	35	105	105	62	186	135	70	205	188	78	230	194	97	290	230
	30.82	4300	39	116	116	68	205	149	77	230	205	86	255	210	107	320	255
	34.23	4300	43	129	129	76	225	165	86	255	230	96	285	235	119	355	285
	38.30	4300	48	144	144	85	250	185	96	285	255	107	320	265	133	395	320
	62.55	4300	78	235	235	139	415	300	157	470	420	175	520	430	215	650	520
	70.54	4300	88	265	265	156	465	340	177	530	475	197	590	485	240	730	590
	77.89	4300	98	290	290	173	515	375	195	585	525	215	650	540	270	810	650
	86.52	4300	108	325	325	192	575	415	215	650	580	240	725	600	300	900	725
	96.80	4300	121	360	360	210	640	465	240	725	650	270	810	670	335	1000	810
	105.13	4300	132	395	395	230	695	505	260	790	705	290	880	730	365	1090	880
	123.93	4300	155	465	465	270	820	595	310	930	830	345	1030	860	430	1290	1030
	140.28	4300	176	525	525	310	930	675	350	1050	940	390	1170	970	485	1460	1170
	153.21	4300	192	575	575	335	1010	735	380	1150	1030	425	1280	1060	530	1590	1280
	176.05	4300	220	660	660	390	1170	840	440	1320	1180	490	1470	1220	610	1830	1470

m [kg]		DRM					
s		90M12	100M12	100L12	132S12	132M12	
K97		170	175	180	195	205	
KF: + 20.1 kg / KA: + -18.2 kg / KAF: + 6.7 kg							


 →  **15**

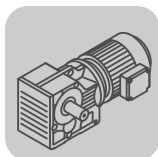


K 97R57

M _a [Nm]			DRM														
i	M _{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
K97R57  3  2	199	4300	131	390	355	169	505	505	240	730	730	430	1290	930	485	1460	1310
	232	4300	153	455	410	197	585	585	280	850	850	500	1500	1090	565	1700	1520
	258	4300	170	510	460	215	655	655	315	940	940	555	1670	1210	630	1890	1700
	305	4300	200	600	545	255	775	775	370	1110	1110	660	1980	1430	745	2230	2000
	342	4300							415	1250	1250	740	2220	1600	830	2510	2250
	382	4300	250	755	680	320	970	970	465	1400	1400	820	2480	1790	930	2800	2510
	437	4300	285	860	780	370	1110	1110	530	1600	1600	940	2830	2050	1060	3200	2870
	504	4300	330	990	900	425	1280	1280	615	1850	1850	1090	3270	2370	1230	3700	3320
	573	4300	375	1130	1020	485	1450	1450	700	2100	2100	1240	3720	2690	1400	4200	3770
	652	4300	425	1280	1160	550	1650	1650	795	2390	2390	1410	4230	3060	1590	4780	4290
	743	4300	485	1460	1320	625	1880	1880	900	2720	2720	1600	4820	3490	1810	5450	4890
	855	4300	560	1690	1520	720	2170	2170	1040	3130	3130	1850	5550	4020	2090	6270	5630
	957	4300	630	1890	1710	810	2430	2430	1170	3510	3510	2070	6210	4500	2340	7020	6300
	1102	4300	725	2170	1970	930	2800	2800	1340	4040	4040	2380	7150	5180	2690	8090	7260
	1261	4300	830	2490	2250	1060	3200	3200	1540	4620	4620	2730	8190	5930	3080		8300
	1430	4300	940	2820	2550	1210	3630	3630	1750	5250	5250	3090		6730	3500		
	1625	4300	1070	3210	2900	1370	4130	4130	1980	5960	5960	3510		7640	3970		
	1856	4300	1220	3660	3310	1570	4710	4710	2270	6810	6810	4010			4540		
	2123	4300	1390	4190	3790	1790	5390	5390	2590	7790	7790	4590			5190		
	2419	4300	1590	4780	4320	2040	6140	6140	2960			5230			5920		
K97R57  3  3	2757	4300	1790	5380	4870	2300	6920	6920	3330			5890			6660		
	3108	4300	2020	6070	5490	2600	7800	7800	3750			6640			7510		
	3583	4300	2330	6990	6330	2990			4330			7660					
	4082	4300	2650	7970	7210	3410			4930								
	4669	4300	3030		8250	3900			5640								
	5391	4300	3510			4510			6510								
	6027	4300	3920			5040			7280								
	6970	4300	4530			5830			8420								
	8054	4300	5240			6740											
	9083	4300	5910			7600											
	10317	4300	6710														
	11677	4300	7600														
	13182	4300	8580														

m [kg]		DRM				
	s	71S12	71M12	90M12	100M12	100L12
K97R57	 3  2	175	175	185	190	195
K97R57	 3  3	175	175	185	195	195
KF: + 20.1 kg / KA: + -18.2 kg / KAF: + 6.7 kg						

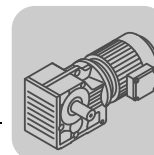



K 107R77

	M_a [Nm]		DRM														
	i	M_{amax}	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
K107R77 	140	7200							171	510	510	300	900	655	340	1020	920
	154	7200							188	565	565	330	1000	720	375	1130	1010
	174	7200							210	635	635	375	1130	810	425	1270	1140
	196	8000							235	715	715	420	1270	920	475	1430	1290
	222	8000							270	810	810	480	1440	1040	540	1630	1460
	251	8000	165	495	445	210	635	635	305	920	920	540	1630	1180	610	1840	1650
	286	8000	188	565	510	240	725	725	350	1050	1050	615	1850	1340	700	2100	1880
	318	8000	205	625	565	265	800	800	385	1160	1160	685	2060	1490	775	2330	2090
	364	8000	235	715	650	305	920	920	445	1330	1330	785	2360	1710	890	2670	2390
	408	8000							495	1490	1490	880	2650	1920	990	2990	2680
	461	8000							560	1690	1690	990	2990	2160	1120	3380	3030
	522	8000	340	1030	930	440	1320	1320	635	1910	1910	1130	3390	2450	1270	3830	3430
	615	8000	405	1210	1100	520	1560	1560	750	2250	2250	1330	3990	2890	1500	4510	4050
	696	8000	455	1370	1240	585	1760	1760	850	2550	2550	1500	4520	3270	1700	5110	4580
	793	8000	520	1560	1410	670	2010	2010	970	2910	2910	1710	5150	3730	1940	5820	5220
	904	8000	595	1780	1610	765	2290	2290	1100	3310	3310	1950	5870	4250	2210	6630	5950
	1030	8000	675	2030	1840	870	2610	2610	1260	3780	3780	2230	6690	4840	2520	7560	6780
	1166	8000	765	2300	2080	980	2960	2960	1420	4280	4280	2520	7570	5480	2850	8560	7680
	1336	8000	880	2640	2380	1130	3390	3390	1630	4900	4900	2890	8670	6280	3270	9810	8800
	1554	8000	1020	3070	2770	1310	3950	3950	1900	5700	5700	3360	10000	7310	3800	11400	10200
	1713	8000	1120	3380	3060	1450	4350	4350	2090	6280	6280	3700	11100	8060	4190	12500	11200
K107R77 	1939	8000	1260	3780	3420	1620	4860	4860	2340	7030	7030	4140	12400	9010	4680	14000	12600
	2286	8000	1480	4460	4030	1910	5740	5740	2760	8290	8290	4890	14600	10600	5520		14800
	2599	8000	1690	5070	4590	2170	6520	6520	3140	9420	9420	5560		12000	6280		
	2977	8000	1930	5810	5260	2490	7470	7470	3590	10700	10700	6360		13800	7190		
	3358	8000	2180	6550	5930	2810	8430	8430	4060	12100	12100	7180		15600	8120		
	3810	8000	2480	7440	6730	3180	9560	9560	4600	13800	13800	8150			9210		
	4359	8000	2830	8510	7700	3640	10900	10900	5270	15800	15800	9320			10500		
	5138	8000	3340	10000	9080	4300	12900	12900	6210			10900			12400		
	5662	8000	3680	11000	10000	4730	14200	14200	6840			12100			13600		
	6184	8000	4020	12000	10900	5170	15500	15500	7470			13200			14900		
	7270	8000	4730	14200	12800	6080			8790			15500					
	8328	8000	5420		14700	6970			10000								
	9524	8000	6200			7970			11500								
	10677	8000	6950			8930			12900								
	12211	8000	7950			10200			14700								
	14311	8000	9310			11900											

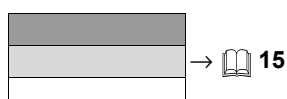
m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
K107R77		300	300	310	320	320	
K107R77		300	305	310	320	320	
KF: + 12.1 kg / KA: + 27.2 kg / KAF: + 3.2 kg							

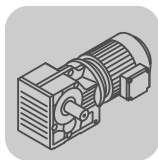
15



M _a [Nm]			DRM					
	i	M _{amax}	S1	132S12	S1	S1	132M12	S1
		[Nm]	2.9	S3	/V		S3	/V
				8.7	7.2	3.6	10.8	8.7
K107R77  3  2	140	7200	380	1140	940	470	1420	1140
	154	7200	420	1260	1040	520	1560	1260
	174	7200	475	1420	1170	585	1760	1420
	196	8000	535	1600	1320	660	1990	1600
	222	8000	605	1810	1500	750	2250	1810
	251	8000	685	2050	1700	850	2550	2050
	286	8000	780	2340	1930	960	2900	2340
	318	8000	860	2600	2150	1070	3230	2600
	364	8000	990	2980	2460	1230	3700	2980
	408	8000	1110	3340	2760	1380	4140	3340
	461	8000	1250	3770	3120	1560	4680	3770
	522	8000	1420	4270	3530	1760	5300	4270
	615	8000	1670	5030	4160	2080	6250	5030
	696	8000	1900	5700	4710	2350	7070	5700
	793	8000	2160	6490	5370	2680	8060	6490
	904	8000	2460	7400	6120	3060	9190	7400
	1030	8000	2810	8430	6980	3490	10400	8430
	1166	8000	3180	9540	7900	3950	11800	9540
	1336	8000	3640	10900	9050	4520	13500	10900
	1554	8000	4240	12700	10500	5260	15800	12700
1713	8000	4670	14000	11600	5800		14000	
K107R77  3  3	1939	8000	5230	15600	12900	6490		15600
	2286	8000	6160		15300	7650		
	2599	8000	7010			8700		
	2977	8000	8030			9960		
	3358	8000	9050			11200		
	3810	8000	10200			12700		
	4359	8000	11700			14500		
	5138	8000	13800					
	5662	8000	15200					
	6184	8000						
	7270	8000						
	8328	8000						
	9524	8000						
	10677	8000						
	12211	8000						
	14311	8000						

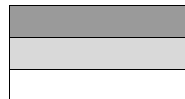
m [kg]		DRM			
	s	132S12		132M12	
K107R77	 3  2	335		350	
K107R77	 3  3	335		350	
KF: + 12.1 kg / KA: + -27.2 kg / KAF: + -3.2 kg					



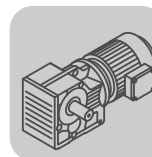

K 127R77

	M_a [Nm]		DRM														
	i	M_{amax}	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
K127R77 	418	13000	275	820	745	350	1060	1060	510	1530	1530	900	2710	1960	1020	3060	2750
	477	13000							580	1750	1750	1030	3090	2240	1160	3500	3140
	549	13000	360	1080	980	465	1390	1390	670	2010	2010	1180	3560	2580	1340	4030	3610
	610	13000	400	1200	1090	515	1550	1550	745	2230	2230	1320	3960	2870	1490	4470	4010
	704	13000	460	1390	1250	595	1780	1780	860	2580	2580	1520	4570	3310	1720	5160	4630
	790	13000							960	2900	2900	1710	5130	3710	1930	5800	5200
	899	13000	590	1770	1600	760	2280	2280	1100	3300	3300	1940	5830	4230	2200	6600	5920
	1025	13000	675	2020	1830	860	2600	2600	1250	3760	3760	2210	6650	4820	2500	7520	6750
	1177	13000	775	2320	2100	990	2990	2990	1440	4320	4320	2540	7640	5540	2880	8640	7750
	1342	13000	880	2650	2400	1130	3410	3410	1640	4920	4920	2900	8710	6310	3280	9850	8840
	1541	13000	1010	3040	2750	1300	3910	3910	1880	5650	5650	3330	10000	7250	3770	11300	10100
	1757	13000	1150	3470	3140	1480	4460	4460	2150	6450	6450	3800	11400	8270	4300	12900	11500
	1926	13000	1260	3800	3440	1630	4890	4890	2350	7070	7070	4170	12500	9060	4710	14100	12600
K127R77 	2268	13000							2740	8220	8220	4850	14500	10500	5480	16400	14700
	2607	13000	1690	5090	4600	2180	6540	6540	3150	9450	9450	5570	16700	12100	6300	18900	16900
	3009	13000	1950	5870	5310	2510	7550	7550	3630	10900	10900	6430	19300	13900	7270	21800	19500
	3311	13000	2150	6460	5850	2770	8310	8310	4000	12000	12000	7080	21200	15300	8000	24000	21500
	3889	13000	2530	7590	6870	3250	9760	9760	4700	14100	14100	8310	24900	18000	9400		25300
	4423	13000	2870	8630	7810	3700	11100	11100	5340	16000	16000	9460		20500	10600		
	5027	13000	3270	9810	8880	4200	12600	12600	6070	18200	18200	10700		23300	12100		
	5804	13000	3770	11300	10200	4850	14500	14500	7010	21000	21000	12400			14000		
	6565	13000	4270	12800	11600	5490	16400	16400	7930	23800	23800	14000			15800		
	7482	13000	4870	14600	13200	6260	18700	18700	9040			16000			18000		
	8443	13000	5490	16400	14900	7060	21200	21200	10200			18000			20400		
	9819	13000	6390	19100	17300	8210	24600	24600	11800			21000			23700		
	10915	13000	7100	21300	19200	9130			13100			23300					
	12440	13000	8090	24200	21900	10400			15000								
	14975	13000	9750			12500			18100								
	16006	13000	10400			13300											
	17550	13000	11400			14600											

m [kg]		DRM					
	s	71S12	71M12	90M12	100M12	100L12	
K127R77		450	450	460	465	470	
K127R77		450	450	460	470	470	
KF: + 42.3 kg / KA: + -28.2 kg / KAF: + 9.2 kg							



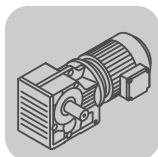
→ 15



M _a [Nm]			DRM					
	i	M _{amax} [Nm]	S1	132S12 S3	S1 /V	S1	132M12 S3	S1 /V
			2.9	8.7	7.2	3.6	10.8	8.7
K127R77  3  2	418	13000	1140	3420	2830	1410	4240	3420
	477	13000	1300	3900	3230	1610	4840	3900
	549	13000	1490	4490	3720	1860	5580	4490
	610	13000	1660	4990	4130	2060	6200	4990
	704	13000	1920	5760	4770	2380	7150	5760
	790	13000	2150	6470	5350	2670	8030	6470
	899	13000	2450	7360	6090	3040	9140	7360
	1025	13000	2790	8390	6940	3470	10400	8390
	1177	13000	3210	9640	7970	3980	11900	9640
	1342	13000	3660	10900	9090	4540	13600	10900
	1541	13000	4200	12600	10400	5220	15600	12600
	1757	13000	4790	14300	11900	5950	17800	14300
K127R77  3  3	1926	13000	5250	15700	13000	6520	19500	15700
	2268	13000	6110	18300	15100	7590	22700	18300
	2607	13000	7030	21000	17400	8720		21000
	3009	13000	8110	24300	20100	10000		24300
	3311	13000	8930		22100	11000		
	3889	13000	10400			13000		
	4423	13000	11900			14800		
	5027	13000	13500			16800		
	5804	13000	15600			19400		
	6565	13000	17700			21900		
	7482	13000	20100			25000		
	8443	13000	22700					
	9819	13000						
	10915	13000						
	12440	13000						
	14975	13000						
	16006	13000						
	17550	13000						

m [kg]		DRM	
	s	132S12	132M12
K127R77	 3  2	485	500
K127R77	 3  3	485	500
KF: + 42.3 kg / KA: + -28.2 kg / KAF: + 9.2 kg			



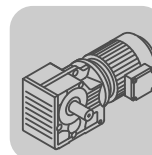

K 127R87

M _a [Nm]			DRM																	
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0	2.9	8.7	7.2	3.6	10.8	8.7
K127R87  3  2	330	13000				400	1210	1210	710	2140	1550	800	2420	2170	900	2700	2230	1110	3350	2700
	367	13000				445	1340	1340	790	2380	1720	890	2690	2410	1000	3000	2480	1240	3730	3000
	418	13000				510	1530	1530	900	2710	1960	1020	3060	2750	1140	3420	2830	1410	4240	3420
	536	13000				655	1960	1960	1160	3480	2520	1310	3930	3530	1460	4390	3630	1810	5440	4390

m [kg]		DRM					
	s	71M12	90M12	100M12	100L12	132S12	132M12
K127R87	 3  2	480	485	495	500	510	530
KF: + 42.3 kg / KA: + -28.2 kg / KAF: + 9.2 kg							



→ 15



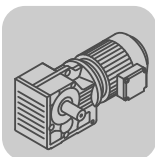
K 157R97

M _a [Nm]			DRM											
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
K157R97 	504	18000				615	1850	1850	1090	3270	2370	1230	3700	3320
	567	18000				690	2080	2080	1220	3680	2660	1380	4160	3730
	854	18000				1040	3130	3130	1840	5540	4010	2090	6270	5620
	942	18000				1150	3450	3450	2030	6110	4430	2300	6910	6200
	1093	18000				1330	4010	4010	2360	7090	5140	2670	8020	7200
	1229	18000				1500	4510	4510	2660	7980	5780	3000	9020	8090
	1365	18000	1150	3460	3460	1670	5010	5010	2950	8860	6420	3340	10000	8990
	1659	18000	1400	4210	4210	2030	6090	6090	3590	10700	7800	4060	12100	10900
K157R97 	2322	18000				2800	8420	8420	4960	14900	10700	5610	16800	15100
	2610	18000				3150	9460	9460	5580	16700	12100	6310	18900	16900
	3051	18000	2550	7660	7660	3680	11000	11000	6520	19500	14100	7370	22100	19800
	3516	18000				4250	12700	12700	7520	22500	16300	8500	25500	22800
	3979	18000	3330	9990	9990	4810	14400	14400	8510	25500	18500	9620	28800	25900
	4514	18000				5450	16300	16300	9650	28900	20900	10900	32700	29300
	5074	18000				6130	18400	18400	10800	32500	23500	12200		33000
	5931	18000	4960	14800	14800	7170	21500	21500	12600		27500	14300		
	6881	18000	5760	17200	17200	8320	24900	24900	14700		32000	16600		
	7734	18000	6470	19400	19400	9350	28000	28000	16500		35900	18700		
	8718	18000	7290	21800	21800	10500	31600	31600	18600			21000		
	10114	18000	8460	25300	25300	12200			21600			24400		
	11368	18000	9510	28500	28500	13700			24300			27400		
	13097	18000	10900	32800	32800	15800			28000			31600		
	14721	18000	12300			17800			31400			35600		
	15729	18000	13100			19000			33600					
	17679	18000	14700			21300								

m [kg]		DRM			
	s	71M12	90M12	100M12	100L12
K157R97		750	760	770	770
K157R97		760	770	770	780
KF: + 78.4 kg / KA: + -36.9 kg / KAF: + 21.7 kg					



→ 15



K..DRM – 50 Hz

K..DRM

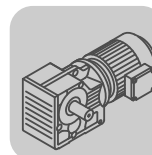
M_a [Nm]			DRM					
	i	M_{amax} [Nm]	S1	132S12 S3	S1 /V	S1	132M12 S3	S1 /V
			2.9	8.7	7.2	3.6	10.8	8.7
K157R97  3  2	504	18000	1370	4120	3410	1700	5120	4120
	567	18000	1540	4640	3840	1920	5760	4640
	854	18000	2330	6990	5780	2890	8680	6990
	942	18000	2570	7710	6380	3190	9570	7710
	1093	18000	2980	8950	7400	3700	11100	8950
	1229	18000	3350	10000	8330	4160	12400	10000
	1365	18000	3720	11100	9250	4620	13800	11100
	1659	18000	4520	13500	11200	5620	16800	13500
K157R97  3  3	2322	18000	6260	18700	15500	7770	23300	18700
	2610	18000	7040	21100	17400	8730	26200	21100
	3051	18000	8220	24600	20400	10200	30600	24600
	3516	18000	9480	28400	23500	11700	35300	28400
	3979	18000	10700	32100	26600	13300		32100
	4514	18000	12100		30200	15100		
	5074	18000	13600		33900	16900		
	5931	18000	15900			19800		
	6881	18000	18500			23000		
	7734	18000	20800			25800		
	8718	18000	23500			29100		
	10114	18000	27200			33800		
	11368	18000	30600					
	13097	18000	35300					
	14721	18000						
	15729	18000						
	17679	18000						

m [kg]		DRM	
	s	132S12	132M12
K157R97	 3  2	790	800
K157R97	 3  3	790	800

KF: + 78.4 kg / KA: + -36.9 kg / KAF: + 21.7 kg



→ 15



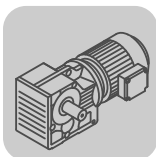
K 167R97

	M _a [Nm]		DRM											
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
K167R97  3  2	481	32000				585	1760	1760	1040	3120	2260	1170	3530	3160
	632	32000				770	2320	2320	1360	4100	2970	1540	4640	4160
	944	32000				1150	3460	3460	2040	6130	4440	2310	6930	6220
	1101	32000				1340	4040	4040	2380	7150	5180	2690	8080	7250
	1296	32000	1090	3290	3290	1580	4750	4750	2800	8410	6100	3170	9510	8540
	1408	32000	1190	3570	3570	1720	5160	5160	3040	9140	6620	3440	10300	9270
	1704	32000	1440	4330	4330	2080	6250	6250	3680	11000	8020	4170	12500	11200
	2182	32000	1840	5540	5540	2670	8010	8010	4720	14100	10200	5340	16000	14300
K167R97  3  3	2755	32000	2300	6910	6910	3330	9990	9990	5890	17600	12800	6660	19900	17900
	3376	32000	2820	8470	8470	4080	12200	12200	7220	21600	15700	8160	24400	21900
	4079	32000	3410	10200	10200	4930	14700	14700	8720	26100	18900	9860	29500	26500
	4788	32000				5780	17300	17300	10200	30700	22200	11500	34700	31100
	5355	32000	4480	13400	13400	6470	19400	19400	11400	34300	24900	12900	38800	34800
	6562	32000	5490	16400	16400	7930	23800	23800	14000	42100	30500	15800	47600	42700
	8628	32000	7220	21600	21600	10400	31200	31200	18400	55300	40100	20800	62500	56100
	10264	32000	8590	25700	25700	12400	37200	37200	21900		47700	24800		
	11573	32000	9680	29000	29000	13900	41900	41900	24700		53800	27900		
	13238	32000	11000	33200	33200	16000	48000	48000	28300		61500	32000		
	15000	32000	12500	37600	37600	18100	54400	54400	32000			36200		
	17406	32000	14500	43700	43700	21000	63100	63100	37200			42000		
	19723	32000	16500	49500	49500	23800			42100			47600		

m [kg]		DRM			
	s	71M12	90M12	100M12	100L12
K167R97  3  2		1150	1160	1160	1170
K167R97  3  3		1150	1160	1170	1170
KH: + -38.0 kg					



→ 15



K..DRM – 50 Hz

K..DRM

M _a [Nm]			DRM					
	i	M _{amax} [Nm]	132S12		S1 /V 7.2	132M12		
			S1	S3		S1	S3	S1 /V 8.7
			2.9	8.7		3.6	10.8	8.7
K167R97  	481	32000	1310	3930	3260	1630	4890	3930
	632	32000	1720	5170	4280	2140	6420	5170
	944	32000	2570	7730	6390	3190	9590	7730
	1101	32000	3000	9010	7460	3730	11100	9010
	1296	32000	3530	10600	8780	4390	13100	10600
	1408	32000	3840	11500	9540	4770	14300	11500
	1704	32000	4650	13900	11500	5770	17300	13900
	2182	32000	5950	17800	14700	7390	22100	17800
K167R97  	2755	32000	7430	22200	18400	9220	27600	22200
	3376	32000	9100	27300	22600	11300	33900	27300
	4079	32000	11000	33000	27300	13600	40900	33000
	4788	32000	12900	38700	32000	16000	48000	38700
	5355	32000	14400	43300	35800	17900	53700	43300
	6562	32000	17700	53100	43900	21900		53100
	8628	32000	23200		57700	28800		
	10264	32000	27600			34300		
	11573	32000	31200			38700		
	13238	32000	35700			44300		
	15000	32000						
	17406	32000	46900			58200		
	19723	32000						

m [kg]		DRM	
	s	132S12	132M12
K167R97	 	1180	1190
K167R97	 	1180	1200
KH: + -38.0 kg			



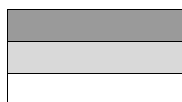
→ 15



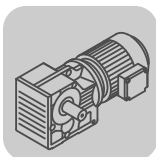
K 187R97

M _a [Nm]			DRM											
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
K187R97  3  2	1046	50000				1280	3840	3840	2260	6790	4920	2560	7680	6890
	1196	50000				1460	4390	4390	2580	7760	5620	2920	8780	7880
	1605	50000				1960	5890	5890	3470	10400	7550	3920	11700	10500
	1821	50000				2220	6680	6680	3940	11800	8570	4450	13300	12000
	2054	50000				2510	7540	7540	4440	13300	9660	5020	15000	13500
	2268	50000				2770	8320	8320	4910	14700	10600	5550	16600	14900
	2519	50000	2130	6400	6400	3080	9240	9240	5450	16300	11800	6160	18400	16600
	3062	50000	2590	7780	7780	3740	11200	11200	6630	19800	14400	7490	22400	20100
K187R97  3  3	3609	50000	3050	9170	9170	4410	13200	13200	7810	23400	16900	8830	26500	23700
	4370	50000				5280	15800	15800	9340	28000	20300	10500	31700	28400
	4817	50000				5820	17400	17400	10300	30900	22400	11600	34900	31300
	5358	50000				6470	19400	19400	11400	34300	24900	12900	38800	34800
	5991	50000	5010	15000	15000	7240	21700	21700	12800	38400	27800	14400	43400	39000
	6747	50000	5640	16900	16900	8150	24400	24400	14400	43300	31300	16300	48900	43900
	7343	50000	6140	18400	18400	8870	26600	26600	15700	47100	34100	17700	53200	47800
	8126	50000				9820	29400	29400	17300	52100	37700	19600	58900	52900
	9363	50000				11300	33900	33900	20000	60000	43500	22600	67900	60900
	10413	50000				12500	37700	37700	22200	66800	48400	25100	75500	67700
	11647	50000	9740	29200	29200	14000	42200	42200	24900	74700	54100	28100	84400	75800
	13116	50000	10900	32900	32900	15800	47500	47500	28000	84100	60900	31700	95100	85300
	14272	50000	11900	35800	35800	17200	51700	51700	30500	91500	66300	34500		92900
	16978	50000	14200	42600	42600	20500	61500	61500	36300		78900	41000		
	19144	50000	16000	48000	48000	23100	69400	69400	40900		89000	46200		
	24353	50000	20300	61100	61100	29400	88300	88300	52000			58800		
	27165	50000	22700	68200	68200	32800	98500	98500	58100			65600		
	32625	50000	27300	81900	81900	39400			69700			78800		

m [kg]		DRM			
s		71M12	90M12	100M12	100L12
K187R97  3  2		1730	1740	1750	1750
K187R97  3  3		1730	1740	1750	1750
KH: + -67.0 kg					



→ 15

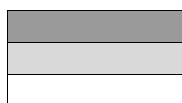


K..DRM – 50 Hz

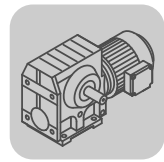
K..DRM

M_a [Nm]			DRM					
	i	M_{amax}	S1	132S12	S1	S1	132M12	S1
		[Nm]	2.9	8.7	/V	3.6	S3	/V
					7.2		10.8	8.7
K187R97  3  2	1046	50000	2850	8560	7090	3540	10600	8560
	1196	50000	3260	9790	8100	4050	12100	9790
	1605	50000	4380	13100	10800	5430	16300	13100
	1821	50000	4970	14900	12300	6170	18500	14900
	2054	50000	5600	16800	13900	6960	20800	16800
	2268	50000	6190	18500	15300	7680	23000	18500
	2519	50000	6870	20600	17000	8530	25600	20600
	3062	50000	8350	25000	20700	10300	31100	25000
K187R97  3  3	3609	50000	9850	29500	24400	12200	36600	29500
	4370	50000	11700	35300	29200	14600	43800	35300
	4817	50000	12900	38900	32200	16100	48300	38900
	5358	50000	14400	43300	35800	17900	53800	43300
	5991	50000	16100	48400	40100	20000	60100	48400
	6747	50000	18100	54500	45100	22500	67700	54500
	7343	50000	19800	59400	49100	24500	73700	59400
	8126	50000	21900	65700	54400	27200	81600	65700
	9363	50000	25200	75700	62700	31300	94000	75700
	10413	50000	28000	84200	69700	34800		84200
	11647	50000	31400	94200	77900	38900		94200
	13116	50000	35300		87800	43900		
	14272	50000	38400		95500	47700		
	16978	50000	45700			56800		
	19144	50000	51600			64100		
	24353	50000	65600			81500		
	27165	50000	73200			90900		
	32625	50000						

m [kg]		DRM	
	s	132S12	132M12
K187R97	 3  2	1760	1780
K187R97	 3  3	1770	1780
KH: + -67.0 kg			



→ 15



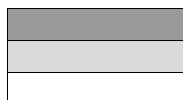
7 S..DRM – 50 Hz

7.1 S..DRM

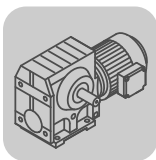
S 37

	M _a [Nm]		71S12			71M12			90M12			100M12			100L12		
	i	M _{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
S37 	3.97	32	2.7	8.1	7.4	3.5	10	10	5.0	15	15	8.9	27	19	10	30	27
	4.86	33	3.3	10.0	9.0	4.3	13	13	6.2	19	19	11	33	24	12	37	33
	5.38	34	3.7	11	10.0	4.7	14	14	6.8	20	20	12	36	26	14	41	37
	6.33	35	4.3	13	12	5.6	17	17	8.0	24	24	14	43	31	16	48	43
	6.80	43	4.6	14	13	6.0	18	18	8.6	26	26	15	46	33	17	52	46
	8.00	45	5.5	16	15	7.0	21	21	10	30	30	18	54	39	20	61	55
	9.02	46	6.2	18	17	7.9	24	24	11	34	34	20	61	44	23	69	62
	10.23	47	7.0	21	19	9.0	27	27	13	39	39	23	69	50	26	78	70
	10.91	48	7.5	22	20	9.6	29	29	14	42	42	24	73	53	28	83	75
	12.48	48	8.5	26	23	11	33	33	16	48	48	28	84	61	32	95	85
	13.39	49	9.1	27	25	12	35	35	17	51	51	30	90	65	34		91
	15.53	50	11	32	29	14	41	41	20	59	59	35		76	39		
	18.24	52	12	37	34	16	48	48									
	19.13	71	13	39	35	17	50	50	24	73	73	43	129	93	49		131
	19.89	52	14	41	37	17	52	52									
	22.50	73	15	46	42	20	59	59	29	86	86	51		110	57		
	25.38	74	17	52	47	22	67	67	32	97	97	57		124	64		
	28.76	75	20	59	53	25	76	76	36	109	109	65		140	73		
	30.68	76	21	63	57	27	81	81	39	117	117	69		150	78		
	35.10	78	24	72	65	31	93	93	45	134	134	79			89		
	37.66	79	26	77	70	33	99	99	48	143	143	85			96		
	43.68	81	30	90	81	38	115	115	55			98			111		
	51.30	81	35	105	95	45	135	135									
	53.83	80	37	110	100	47	142	142	68			121			137		
	55.93	81	38	115	104	49	147	147									
	63.33	82	43	130	117	56			80			142			161		
	71.44	84	49	146	132	63			91			160					
	80.96	85	55	166	150	71			103								
	86.36	86	59		160	76			110								
	98.80	87	68			87			125								
	106.00	88	72			93			135								
	122.94	91	84			108			156								
	144.40	92	99			127											
	157.43	92	108			138											

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
S37	31.2	13	14	24	31	34
SF: + 1.3 kg / SA: + -0.3 kg / SAF: + 1.3 kg						

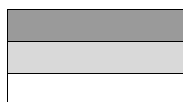


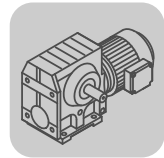
→ 15


S 37R17

M_a [Nm]			DRM					
	i	M_{amax}	S1	71S12	S1	S1	71M12	S1
		[Nm]	0.7	S3	/V	0.9	S3	/V
				2.1	1.9		2.7	2.7
S37R17 	110	92	73			94		
	118	92	79			101		
	144	92	96			123		
	158	92	105			135		
	179	92	119			154		
	202	92	135			173		
	232	92	155					
	265	92	177					

m [kg]		DRM	
	s	71S12	71M12
S37R17 		16	17
S37R17 		16	17
SF: + 1.3 kg / SA: + -0.3 kg / SAF: + 1.3 kg			


 →  **15**



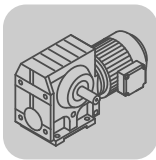
S 47

	M _a [Nm]		DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
S47 	4.00	61	2.7	8.2	7.4	3.5	11	11	5.1	15	15	9.0	27	20	10	30	27
	4.76	72	3.3	9.8	8.8	4.2	13	13	6.0	18	18	11	32	23	12	36	33
	5.39	74	3.7	11	10.0	4.7	14	14	6.8	21	21	12	36	26	14	41	37
	6.40	76	4.4	13	12	5.6	17	17	8.1	24	24	14	43	31	16	49	44
	6.83	78	4.7	14	13	6.0	18	18	8.7	26	26	15	46	33	17	52	47
	7.28	103	5.0	15	14	6.4	19	19	9.2	28	28	16	49	36	18	55	50
	8.64	109	5.9	18	16	7.6	23	23	11	33	33	19	58	42	22	66	59
	9.23	109	6.3	19	17	8.1	24	24	12	35	35	21	62	45	23	70	63
	10.80	109	7.4	22	20	9.5	28	28	14	41	41	24	73	53	27	82	74
	12.10	109	8.3	25	22	11	32	32	15	46	46	27	81	59	31	92	83
	14.24	110	9.7	29	26	13	38	38	18	54	54	32	96	70	36	108	97
	16.47	110	11	34	31	14	43	43	21	63	63	37	111	80	42	125	113
	17.62	110	12	36	33	15	46	46	22	67	67	40	119	86	45	134	120
	19.54	144							25	74	74	44	132	95	50	149	134
	20.33	110	14	42	38	18	54	54	26	77	77	46	137	99	52	155	139
	23.20	152	16	48	43	20	61	61	29	88	88	52	156	113	59	177	159
	24.77	155	17	51	46	22	65	65	31	94	94	56	167	121	63	189	169
	29.00	155	20	59	54	25	76	76	37	110	110	65	195	142	74	220	198
	32.48	155	22	67	60	29	86	86	41	124	124	73	215	159	82	245	220
	38.23	155	26	78	71	34	101	101	49	146	146	86	255	187	97	290	260
	44.22	155	30	91	82	39	117	117	56	168	168	99	295	215	112		300
	47.32	155	32	97	88	42	125	125	60	180	180	106		230	120		
	54.59	155	37	112	101	48	144	144	69	205	205	123		265	139		
	56.61	165							72	215	215	127		275	144		
	63.80	155	44	131	118	56	168	168									
	67.20	167	46	138	125	59	177	177	85	255	255	151		325	171		
	69.39	155	47	142	129	61	183	183									
	71.75	167	49	147	133	63	189	189	91	270	270	161			182		
	84.00	167	57	172	156	74	220	220	107	315	315	189			210		
	94.08	168	64	193	174	83	245	245	119			210			235		
	110.73	168	76	225	205	97	290	290	141			245			280		
	128.10	168	88	260	235	113			163			285			325		
	137.05	168	94	280	250	120			174			305					
	158.12	170	108	320	290	139			200								
	184.80	170	126			162											
	201.00	170	137			177											

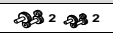
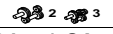
m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
S47		16	17	27	34	37
SF: + 3.6 kg / SA: + 1.1 kg / SAF: + 2.8 kg						



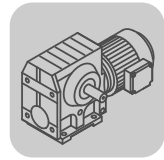
→ 15


S 47R17

M_a [Nm]			DRM					
	i	M_{amax}	S1	71S12	S1	S1	71M12	S1
		[Nm]	0.7	S3	/V	0.9	S3	/V
				2.1	1.9		2.7	2.7
S47R17 	131	185	87	260	235	112	335	335
	148	185	99	295	265	127		
	165	185	110	330	295	141		
	187	185	125		335	160		
	200	185	133		360	172		
	229	185	153			196		
	257	185	171			220		
	294	185	196			250		
	336	185	220			285		
	388	185	255			330		
	438	185	290					
	506	185	335					

m [kg]		DRM	
	s	71S12	71M12
S47R17		19	20
S47R17		19	20
SF: + 3.6 kg / SA: + 1.1 kg / SAF: + 2.8 kg			


→  **15**

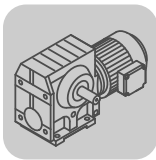


S 57

	M _a [Nm]		DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
S57 	4.00	88	2.7	8.2	7.4	3.5	11	11	5.1	15	15	9.0	27	20	10	30	27
	4.76	93	3.3	9.8	8.8	4.2	13	13	6.0	18	18	11	32	23	12	36	33
	5.39	95	3.7	11	10.0	4.7	14	14	6.8	21	21	12	36	26	14	41	37
	6.40	98	4.4	13	12	5.6	17	17	8.1	24	24	14	43	31	16	49	44
	6.83	100	4.7	14	13	6.0	18	18	8.7	26	26	15	46	33	17	52	47
	7.28	146	5.0	15	14	6.4	19	19	9.2	28	28	16	49	36	18	55	50
	8.64	166	5.9	18	16	7.6	23	23	11	33	33	19	58	42	22	66	59
	9.23	169	6.3	19	17	8.1	24	24	12	35	35	21	62	45	23	70	63
	10.80	169	7.4	22	20	9.5	28	28	14	41	41	24	73	53	27	82	74
	12.10	169	8.3	25	22	11	32	32	15	46	46	27	81	59	31	92	83
	14.24	169	9.7	29	26	13	38	38	18	54	54	32	96	70	36	108	97
	16.47	168	11	34	31	14	43	43	21	63	63	37	111	80	42	125	113
	17.62	168	12	36	33	15	46	46	22	67	67	40	119	86	45	134	120
	19.54	215							25	74	74	44	132	95	50	149	134
	20.33	168	14	42	38	18	54	54	26	77	77	46	137	99	52	155	139
	23.20	245	16	48	43	20	61	61	29	88	88	52	156	113	59	177	159
	24.77	245	17	51	46	22	65	65	31	94	94	56	167	121	63	189	169
	29.00	245	20	59	54	25	76	76	37	110	110	65	195	142	74	220	198
	32.48	245	22	67	60	29	86	86	41	124	124	73	215	159	82	245	220
	38.23	245	26	78	71	34	101	101	49	146	146	86	255	187	97	290	260
	44.22	245	30	91	82	39	117	117	56	168	168	99	295	215	112	335	300
	47.32	245	32	97	88	42	125	125	60	180	180	106	315	230	120	360	320
	54.59	245	37	112	101	48	144	144	69	205	205	123	365	265	139	415	370
	56.61	265							72	215	215	127	380	275	144	430	385
	63.80	245	44	131	118	56	168	168									
	67.20	285	46	138	125	59	177	177	85	255	255	151	450	325	171	510	455
	69.39	245	47	142	129	61	183	183									
	71.75	290	49	147	133	63	189	189	91	270	270	161	480	350	182	545	490
	84.00	295	57	172	156	74	220	220	107	315	315	189	565	405	210		570
	94.08	295	64	193	174	83	245	245	119	355	355	210		455	235		
	110.73	295	76	225	205	97	290	290	141	420	420	245		540	280		
	128.10	295	88	260	235	113	335	335	163	485	485	285			325		
	137.05	295	94	280	250	120	360	360	174	520	520	305			345		
	158.12	295	108	320	290	139	415	415	200			355			400		
	184.80	295	126	375	340	162	485	485									
	201.00	295	137	410	370	177	525	525									

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
S57		20	21	30	38	41
SF: + 3.8 kg / SA: + -0.3 kg / SAF: + 2.6 kg						

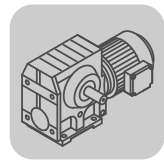



S 57R17

M_a [Nm]			DRM					
	i	M_{amax}	S1	71S12	S1	S1	71M12	S1
		[Nm]	0.7	S3	/V	0.9	S3	/V
				2.1	1.9		2.7	2.7
S57R17 	131	300	87	260	235	112	335	335
	165	300	110	330	295	141	420	420
	187	300	125	370	335	160	480	480
	204	300	136	405	365	175	520	520
	229	300	153	455	410	196	585	585
	269	300	179	535	485	230		
	294	300	196	585	530	250		
	336	300	220			285		
	388	300	255			330		
	438	300	290			375		
	506	300	335			430		
	574	300	380			490		
	655	300	435			560		
	750	300	500					
	865	300	575					

m [kg]		DRM	
	s	71S12	71M12
S57R17		23	24
S57R17		23	24
SF: + 3.8 kg / SA: + -0.3 kg / SAF: + 2.6 kg			


→  **15**

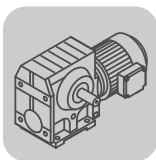


S 67

	M _a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M _{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
S67 	7.56	295							9.6	29	29	17	51	37	19	58	52
	8.69	335	5.9	18	16	7.6	23	23	11	33	33	20	59	42	22	66	59
	10.03	340	6.9	21	19	8.8	26	26	13	38	38	23	68	49	25	76	69
	11.03	340	7.5	23	20	9.7	29	29	14	42	42	25	74	54	28	84	75
	12.96	340	8.9	27	24	11	34	34	16	49	49	29	87	63	33	99	89
	13.73	340	9.4	28	25	12	36	36	17	52	52	31	92	67	35	105	94
	15.60	340	11	32	29	14	41	41	20	59	59	35	105	76	40	119	107
	17.28	340	12	35	32	15	46	46	22	66	66	39	116	84	44	132	118
	20.37	340	14	42	38	18	54	54	26	78	78	46	137	99	52	155	139
	23.22	340	16	48	43	20	61	61	29	88	88	52	156	113	59	177	159
	24.44	340	17	50	45	21	64	64	31	93	93	55	165	119	62	186	167
	26.93	480	18	55	50	24	71	71	34	103	103	60	181	131	68	205	184
	29.63	480	20	61	55	26	78	78	38	113	113	67	200	145	75	225	200
	34.80	480	24	71	65	31	92	92	44	132	132	78	230	170	88	260	235
	36.85	480	25	76	68	32	97	97	47	140	140	83	245	180	94	280	250
	41.89	480	29	86	78	37	110	110	53	159	159	94	280	200	106	315	285
	46.40	480	32	95	86	41	122	122	59	177	177	104	310	225	118	350	315
	54.70	480	37	112	101	48	144	144	69	205	205	123	365	265	139	415	370
	62.35	480	43	128	116	55	164	164	79	235	235	140	415	300	158	470	425
	65.63	480	45	135	122	58	173	173	83	245	245	147	440	320	167	495	445
	75.06	480	51	154	139	66	198	198	95	285	285	169	505	365	191	570	510
	78.00	520							99	295	295	175	525	380	198	590	530
	85.83	520	59	176	159	75	225	225	109	325	325	193	575	415	215	650	585
	100.80	520	69	205	187	89	265	265	128	380	380	225	675	490	255	765	685
	106.75	520	73	215	198	94	280	280	135	405	405	235	715	520	270	810	725
	121.33	520	83	245	225	107	315	315	154	460	460	270	810	590	305	920	820
	134.40	520	92	275	245	118	350	350	171	510	510	300	900	655	340	1020	910
	158.45	520	108	320	290	139	415	415	200	600	600	355		770	400		
	180.60	520	123	370	330	159	475	475	225	685	685	405		880	455		
	190.11	520	130	385	350	167	500	500	240	720	720	425		920	480		
	217.41	520	149	445	400	191	570	570	275	820	820	485			550		

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
S67	232	31	32	42	49	52
SF: + 6.5 kg / SA: + 1.0 kg / SAF: + 5.5 kg						



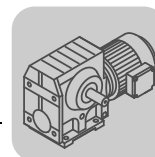

S 67R37

M_a [Nm]			DRM														
i	M_{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
S67R37 	156	570	104	310	280	134	400	400	193	575	575	340	1020	740	385		1040
	168	570	112	335	300	144	430	430	205	620	620	365	1100	800	415		1120
	198	570	132	395	355	170	505	505	245	735	735	430		940	490		
	221	570	147	440	400	190	565	565	270	820	820	480		1050	545		
	246	570	164	490	445	210	630	630	300	910	910	535			605		
	281	570	187	560	505	240	720	720	345	1040	1040	615			695		
	319	570	210	635	575	270	820	820	395			695			790		
	365	570	240	730	660	310	930	930	450			795			900		
	424	570	280	840	765	360	1090	1090	525			920			1050		
	469	570	310	930	840	400			580			1020					
	543	570	360	1080	980	465			670								
	615	570	410		1110	525			760								
	712	570	470			610			880								
	809	570	535			690			1000								
S67R37 	914	570	600			770			1110								
	1045	570	685			880											
	1194	570	785			1010											
	1363	570	890														
	1559	570	1020														

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
S67R37 		42	43	52	59	62	
S67R37 		42	43	52	60	63	
SF: + 6.5 kg / SA: + 1.0 kg / SAF: + 5.5 kg							



→ 15

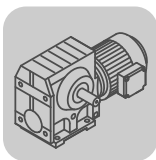


S 77

M _a [Nm]			DRM																				
i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12			132S12			132M12			
		S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	
		0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0	2.9	8.7	7.2	3.6	10.8	8.7	
S77  2	8.06	680							10	31	31	18	54	39	20	61	55	23	68	57	28	85	68
	9.44	725							12	36	36	21	64	46	24	72	65	27	80	66	33	100	80
	10.65	720							14	41	41	24	72	52	27	81	73	30	90	75	37	112	90
	12.07	720	8.2	25	22	11	32	32	15	46	46	27	81	59	31	92	82	34	103	85	42	127	103
	13.76	710	9.4	28	26	12	36	36	17	52	52	31	93	67	35	105	94	39	117	97	48	145	117
	15.28	710	10	31	28	13	40	40	19	58	58	34	103	75	39	116	104	43	130	107	54	161	130
	17.45	710	12	36	32	15	46	46	22	66	66	39	118	85	44	133	119	49	148	123	61	184	148
	18.42	705	13	38	34	16	49	49	23	70	70	41	124	90	47	140	126	52	156	129	65	194	156
	20.99	705	14	43	39	18	55	55	27	80	80	47	141	102	53	160	143	59	178	148	74	220	178
	22.89	705	16	47	42	20	60	60	29	87	87	51	154	112	58	174	156	65	194	161	80	240	194
	25.07	1020							32	95	95	56	169	122	64	191	171	71	210	176	88	260	210
	28.41	1050	19	58	53	25	75	75	36	108	108	64	191	139	72	215	194	80	240	200	100	295	240
	32.38	1090	22	66	60	28	85	85	41	123	123	73	215	158	82	245	220	92	270	225	114	340	270
	35.94	1100	25	74	67	32	95	95	46	137	137	81	240	175	91	270	245	102	305	250	126	375	305
	41.07	1100	28	84	76	36	108	108	52	156	156	92	275	200	104	310	280	116	345	285	144	430	345
	43.33	1100	30	89	80	38	114	114	55	165	165	97	290	210	110	325	295	123	365	300	152	455	365
	49.38	1100	34	101	92	43	130	130	63	188	188	111	330	240	125	375	335	140	415	345	174	520	415
	53.87	1100	37	110	100	47	142	142	68	205	205	121	360	260	137	410	365	152	455	375	189	565	455
	56.92	990							72	215	215	128	380	275	144	430	385	161	480	400	200	600	480
	63.03	1100	43	129	117	55	166	166	80	235	235	142	420	305	160	475	430	178	535	440	220	660	535
	66.67	1040							85	250	250	150	445	325	169	505	455	189	565	465	230	700	565
	71.33	1100	49	146	132	63	188	188	91	270	270	160	480	345	181	540	485	200	605	500	250	750	605
	75.09	1100	51	154	139	66	198	198	95	285	285	169	505	365	191	570	510	210	635	525	260	790	635
	85.22	1100	58	175	158	75	220	220	108	320	320	191	570	415	215	645	580	240	720	595	295	890	720
	97.14	1140	66	199	180	85	255	255	123	365	365	215	650	470	245	735	660	270	820	680	340	1020	820
	107.83	1170	74	220	200	95	280	280	137	410	410	240	725	525	270	820	735	305	910	755	375	1130	910
	123.20	1200	84	250	225	108	320	320	156	465	465	275	820	600	310	930	840	345	1040	860	430	1290	1040
	130.00	1210	89	265	240	114	340	340	165	490	490	290	870	630	325	980	880	365	1100	910	455	1370	1100
	148.15	1240	101	300	270	130	390	390	188	560	560	330	990	720	375	1120	1010	415	1250	1040	520	1560	1250
	161.60	1260	110	330	295	142	425	425	205	615	615	360	1080	785	410	1230	1100	455	1370	1130	565	1700	1370
	189.09	1270	129	385	350	166	495	495	235	715	715	420	1270	920	475	1430	1290	535	1600	1320	660	1990	1600
	214.00	1270	146	435	395	188	560	560	270	810	810	480	1440	1040	540	1620	1460	605	1810	1500	750	2250	1810
	225.26	1270	154	460	415	198	590	590	285	850	850	505	1510	1090	570	1710	1530	635	1910	1580	790	2370	1910
	256.47	1270	175	525	475	225	675	675	325	970	970	575	1720	1250	650	1950	1750						

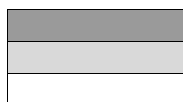
m [kg]		DRM							
S77	s	71S12	71M12	90M12	100M12	100L12	132S12	132M12	
S77		52	53	62	69	72	87	100	
SF: + 9.7 kg / SA: + -0.5 kg / SAF: + 6.2 kg									



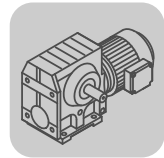

S 77R37

M_a [Nm]			DRM														
i	M_{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
S77R37 	219	1240	146	435	395	188	560	560	270	810	810	475	1430	1040	540	1620	1460
	250	1240	167	500	450	210	640	640	305	920	920	545	1640	1190	615	1850	1660
	289	1240	193	575	520	245	740	740	355	1070	1070	630	1900	1370	715	2140	1920
	327	1240	215	650	590	280	840	840	405	1210	1210	715	2140	1550	810	2430	2180
	389	1240	255	775	700	330	1000	1000	480	1440	1440	850		1850	960		
	438	1240	290	870	790	375	1120	1120	540	1620	1620	950		2080	1080		
	499	1240	330	990	900	425	1280	1280	615	1850	1850	1090		2370	1230		
	574	1240	380	1140	1030	490	1470	1470	710	2130	2130	1250			1420		
	637	1240	420	1270	1150	545	1630	1630	785	2360	2360	1390			1570		
	714	1240	475	1420	1290	610	1830	1830	880			1560			1760		
	837	1240	555	1670	1510	715	2150	2150	1030			1830			2070		
	954	1240	635	1900	1720	810	2450	2450	1180			2090			2360		
	1100	1240	730	2200	1990	940			1360			2410					
S77R37  	1245	1240	820	2460	2220	1050			1520								
	1404	1240	920			1180			1710								
	1600	1240	1050			1350			1950								
	1745	1240	1140			1470			2130								
	1813	1240	1190			1530			2210								
	2083	1240	1370			1760											
	2374	1240	1560			2010											
	2753	1240	1810			2330											
	3098	1270	2040														
	3540	1270	2330														

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
S77R37 		60	61	71	78	81	
S77R37 	 	61	62	71	78	81	

SF: + 9.7 kg / SA: + -0.5 kg / SAF: + 6.2 kg


→ 15



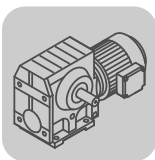
S 87

	M_a [Nm]		DRM																	
	i	M_{amax} [Nm]	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0	2.9	8.7	7.2	3.6	10.8	8.7
S87 	12.21	1240				15	46	46	27	82	60	31	93	83	35	104	86	43	129	104
	14.06	1240				18	54	54	32	95	69	36	107	96	40	119	99	49	148	119
	15.64	1240				20	60	60	35	105	76	40	119	107	44	133	110	55	165	133
	17.49	1240	15	46	46	22	67	67	39	118	85	44	133	120	50	149	123	61	184	149
	19.70	1240	17	52	52	25	75	75	44	133	96	50	150	135	56	167	138	69	205	167
	21.43	1240	19	56	56	27	82	82	48	144	105	54	163	146	61	182	151	75	225	182
	25.50	1240	22	67	67	32	97	97	57	172	124	65	194	174	72	215	179	90	265	215
	27.28	1600				35	104	104	61	184	133	69	205	186	77	230	192	96	285	230
	31.43	1600				40	120	120	71	210	153	80	235	210	89	265	220	110	330	265
	34.96	1600				44	133	133	78	235	171	89	265	235	99	295	245	123	365	295
	39.10	1600	34	103	103	50	149	149	88	260	191	99	295	265	111	330	270	137	410	330
	44.03	1600	39	116	116	56	168	168	99	295	210	112	335	300	125	370	305	155	460	370
	47.91	1600	42	126	126	61	182	182	108	320	230	122	360	325	136	405	335	168	505	405
	57.00	1600	50	150	150	72	215	215	128	380	275	145	430	385	161	480	400	200	600	480
	64.27	1600	56	169	169	82	240	240	144	430	310	163	485	435	182	545	450	225	675	545
	70.43	1600	62	186	186	89	265	265	158	470	340	179	535	480	199	595	490	245	740	595
	81.76	1600	72	215	215	104	310	310	184	550	395	205	620	555	230	690	570	285	860	690
	86.15	1880				109	325	325	193	580	420	215	655	585	240	730	605	300	900	730
	91.20	1510	80	240	240	116	345	345	200	610	445	230	690	620	255	770	640	320	960	770
	99.26	1960				126	375	375	220	665	480	250	755	675	280	840	695	345	1040	840
	110.40	2000				140	420	420	245	740	535	280	840	750	310	930	775	385	1160	930
	123.48	2060	108	325	325	157	470	470	275	830	600	310	940	840	345	1040	860	430	1300	1040
	139.05	2100	122	365	365	176	525	525	310	930	675	350	1050	950	390	1180	970	485	1460	1180
	151.30	2150	133	395	395	192	575	575	335	1010	735	380	1150	1030	425	1280	1060	530	1590	1280
	180.00	2210	158	470	470	225	685	685	400	1210	870	455	1370	1220	505	1520	1260	630	1890	1520
	202.96	2260	178	530	530	255	770	770	455	1360	990	515	1540	1380	570	1720	1420	710	2130	1720
	222.40	2280	195	585	585	280	840	840	495	1490	1080	560	1690	1510	625	1880	1560	780	2340	1880
	258.18	2280	225	680	680	325	980	980	575	1730	1260	655	1960	1760	730	2190	1810	900	2720	2190
	288.00	2280	250	755	755	365	1090	1090	645	1930	1400	730	2190	1960	810	2440	2020	1010	3030	2440

m [kg]		DRM					
	s	71M12	90M12	100M12	100L12	132S12	132M12
S87		89	98	105	110	125	135
SF: + 21.7 kg / SA: + -2.4 kg / SAF: + 13.8 kg							



→ 15

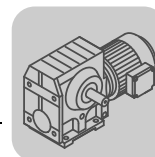

S 87R57

M_a [Nm]			DRM														
i	M_{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
S87R57 	205	1980	137	410	370	176	525	525	250	760	760	445	1340	970	505	1520	1360
	222	1980	148	440	400	190	570	570	270	820	820	485	1450	1050	545	1640	1480
	255	1980	170	510	460	215	655	655	315	940	940	555	1670	1210	630	1890	1700
	281	2400							345	1040	1040	615	1840	1330	695	2080	1870
	323	2400	215	645	580	275	830	830	400	1200	1200	705	2120	1530	800	2400	2150
	378	2450							465	1400	1400	820	2480	1800	930	2800	2520
	435	2450	290	870	785	370	1110	1110	535	1610	1610	950	2860	2070	1070	3230	2900
	485	2500							600	1800	1800	1060	3180	2310	1200	3600	3230
	558	2500	370	1110	1010	475	1430	1430	690	2070	2070	1220	3660	2650	1380	4140	3720
	624	2500	415	1240	1120	535	1600	1600	770	2310	2310	1360	4100	2970	1540	4630	4160
	719	2500	475	1430	1300	615	1840	1840	890	2670	2670	1570	4720	3420	1780		4790
	831	2500	550	1660	1500	710	2130	2130	1020	3080	3080	1820		3950	2050		
	930	2500	620	1860	1680	795	2390	2390	1150	3450	3450	2030		4430	2300		
	1032	2500	685	2060	1860	880	2650	2650	1270	3830	3830	2260		4910	2550		
	1191	2500	790	2380	2150	1020	3060	3060	1470	4420	4420	2610			2950		
	1332	2500	880	2660	2410	1140	3420	3420	1640	4940	4940	2910			3290		
	1631	2500	1080	3260	2950	1390	4190	4190	2020			3570			4040		
	1824	2500	1210	3640	3300	1560	4690	4690	2250			3990			4510		
	2054	2500	1370	4110	3710	1760			2540			4500					
	2335	2500	1550	4670	4220	2000			2890								
	2586	2500	1720		4680	2210			3200								
	2905	2500	1930			2490			3590								
	3475	2500	2310			2980			4300								
S87R57 	3872	2500	2550			3280			4730								
	4606	2500	3030			3900											
	5187	2500	3410			4390											
	5875	2500	3870			4970											
	6706	2500	4410														

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
S87R57		105	105	115	125	125	
S87R57		105	105	115	125	130	
SF: + 21.7 kg / SA: + -2.4 kg / SAF: + 13.8 kg							



→ 15



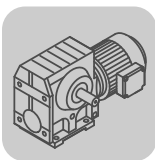
S 97

	M _a [Nm]		DRM																	
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0	2.9	8.7	7.2	3.6	10.8	8.7
S97  2	17.05	2570				22	65	65	38	115	83	43	130	117	48	145	120	60	180	145
	19.23	2600				24	73	73	43	130	94	49	146	131	54	163	135	68	200	163
	21.23	2600				27	81	81	48	143	104	54	162	145	60	180	149	75	220	180
	23.59	2600	21	62	62	30	90	90	53	159	115	60	180	161	67	200	166	83	245	200
	26.39	2600	23	70	70	33	100	100	59	178	129	67	200	180	75	220	185	93	275	220
	36.05	3300				46	137	137	81	240	176	91	270	245	102	305	250	127	380	305
	40.65	3300				52	155	155	91	270	198	103	305	275	115	345	285	143	425	345
	44.89	3300				57	171	171	101	300	215	114	340	305	127	380	315	158	470	380
	49.87	3300	44	131	131	63	190	190	112	335	240	127	375	340	141	420	350	175	525	420
	55.79	3300	49	147	147	71	210	210	125	375	270	142	420	380	158	470	390	196	585	470
	60.59	3300	53	160	160	77	230	230	136	405	295	154	460	410	172	510	425	210	635	510
	71.43	3300	63	188	188	91	270	270	160	480	345	181	540	485	200	605	500	250	750	605
	80.85	3230	71	210	210	103	305	305	182	540	390	205	615	550	225	685	565	280	850	685
	116.92	3510				148	445	445	260	785	570	295	890	795	330	990	820	410	1230	990
	131.85	3650				167	500	500	295	880	640	330	1000	900	370	1110	920	460	1390	1110
	145.60	3730				185	550	550	325	980	710	365	1100	990	410	1230	1020	510	1530	1230
	161.74	3840	142	425	425	205	615	615	360	1080	785	410	1230	1100	455	1370	1130	565	1700	1370
	180.95	3920	159	475	475	225	685	685	405	1210	880	455	1370	1230	510	1530	1270	635	1900	1530
	196.52	4000	173	515	515	245	745	745	440	1320	950	495	1490	1340	555	1660	1380	690	2070	1660
	231.67	4000	200	610	610	290	880	880	520	1560	1130	585	1760	1580	655	1960	1620	810	2440	1960
	262.22	4000	230	690	690	330	990	990	585	1760	1270	665	1990	1790	740	2220	1840	920	2760	2220
	286.40	4000	250	750	750	360	1090	1090	640	1920	1390	725	2180	1950	810	2430	2010	1000	3010	2430

m [kg]		DRM						
	s	71M12	90M12	100M12	100L12	132S12	132M12	
S97	 2	150	155	165	165	180	195	
SF: + 32.7 kg / SA: + 5.4 kg / SAF: + 20.7 kg								



→ 15

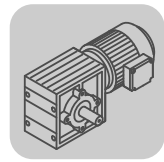

S 97R57

M_a [Nm]			DRM														
i	M_{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
S97R57 2 2	205	4200	137	410	370	176	525	525	250	760	760	445	1340	970	505	1520	1360
	219	4200							270	810	810	475	1430	1040	540	1620	1460
	252	4200	168	500	455	215	645	645	310	930	930	550	1650	1200	620	1870	1680
	287	4200	191	570	515	245	735	735	355	1060	1060	625	1880	1360	710	2130	1910
	327	4200	215	650	590	280	840	840	405	1210	1210	715	2140	1550	810	2430	2180
	376	4200	250	750	680	320	960	960	465	1390	1390	820	2470	1790	930	2790	2500
	420	4200	280	840	760	360	1080	1080	520	1560	1560	920	2760	2000	1040	3120	2800
	484	4200	320	960	870	415	1240	1240	595	1790	1790	1060	3180	2300	1190	3590	3220
	538	4200	355	1070	970	460	1380	1380	665	1990	1990	1170	3530	2560	1330	3990	3580
	626	4200	415	1250	1130	535	1610	1610	775	2320	2320	1370	4110	2980	1550	4650	4170
	714	4200	475	1420	1290	610	1830	1830	880	2650	2650	1560	4690	3400	1760	5300	4760
	824	4200	545	1640	1490	705	2110	2110	1020	3060	3060	1800	5410	3920	2040	6120	5490
	928	4200	615	1850	1680	795	2380	2380	1140	3440	3440	2030	6100	4420	2290	6890	6180
	1070	4200	710	2140	1930	910	2750	2750	1320	3970	3970	2340	7030	5090	2650	7950	7130
	1223	4200	810	2440	2210	1040	3140	3140	1510	4540	4540	2680	8040	5820	3020		8150
	1394	4200	920	2780	2520	1190	3580	3580	1720	5180	5180	3050		6640	3450		
S97R57 2 3	1574	4200	1030	3110	2810	1330	4000	4000	1920	5770	5770	3400		7400	3850		
	1860	4200	1220	3670	3320	1570	4720	4720	2270	6820	6820	4020			4550		
	2081	4200	1370	4110	3720	1760	5280	5280	2540	7640	7640	4500			5090		
	2329	4200	1530	4600	4160	1970	5910	5910	2850			5040			5700		
	2654	4200	1740	5240	4740	2240	6740	6740	3240			5740			6490		
	3108	4200	2040	6140	5550	2630	7900	7900	3800			6720			7600		
	3453	4200	2270	6820	6170	2920			4220			7470					
	4017	4200	2640	7940	7180	3400			4910								
	4444	4200	2920		7940	3760			5430								
	4937	4200	3250			4180			6040								
	5780	4200	3800			4890			7070								
	6640	4200	4370			5620			8120								
	7554	4200	4970			6400											
	8608	4200	5670			7290											
	10078	4200	6640														
	11267	4200	7420														

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
S97R57	2 2	160	165	175	180	185	
S97R57	2 3	165	165	175	180	185	
SF: + 32.7 kg / SA: + -5.4 kg / SAF: + 20.7 kg							



→ 15



8 W..DRM – 50 Hz

8.1 W..DRM

W 20

	M _a [Nm]		DRM					
	i	M _{amax}	S1	71S12 S3	S1 /V	S1	71M12 S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7
	6.57	20	4.5	14	12	5.8	18	18
	8.20	20	5.7	17	15	7.3	22	22
	10.25	25	7.1	21	19	9.1	27	27
	14.33	30	9.9	30	27	13	38	38
	16.50	30	11	34	31	15	44	44
	19.50	35	13	40	37	17	52	52
	24.50	40	17	51	46	22	65	65
	27.50	40	19	57	52	24	73	73
	32.50	40	22	67	61	29		
	39.00	40	27		73	35		
	48.00	40	33			43		
	60.00	40	41			53		
	75.00	40	52			67		

m [kg]		DRM	
	s	71S12	71M12
W20		9.1	10
WF: + 0.1 kg / WA: + -0.3 kg / WAF: + -0.3 kg			

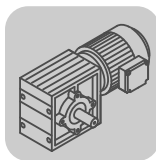
W 30

	M _a [Nm]		DRM					
	i	M _{amax}	S1	71S12 S3	S1 /V	S1	71M12 S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7
	6.57	40	4.5	14	12	5.8	18	18
	8.20	40	5.7	17	15	7.3	22	22
	10.25	50	7.1	21	19	9.1	27	27
	14.33	60	9.9	30	27	13	38	38
	16.33	60	11	34	31	15	44	44
	19.50	70	13	40	37	17	52	52
	24.50	70	17	51	46	22	65	65
	27.50	70	19	57	52	24	73	73
	32.50	70	22	67	61	29	87	87
	39.00	70	27	81	73	35	104	104
	48.00	70	33	100	90	43	128	128
	60.00	70	41	124	113	53		
	75.00	70	52			67		

m [kg]		DRM	
	s	71S12	71M12
W30		12	13
WF: + 0.4 kg / WA: + -0.3 kg / WAF: + 0.0 kg			



→ 15

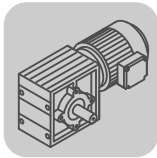

W 37

M _a [Nm]			DRM								
	i	M _{amax} [Nm]	71S12			71M12			90M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9
W37  2	3.20	70	2.2	6.6	5.9	2.8	8.4	8.4	4.1	12	12
	3.93	70	2.7	8.1	7.3	3.5	10	10	5.0	15	15
	5.11	70	3.5	10	9.5	4.5	13	13	6.5	19	19
	5.77	70	3.9	12	11	5.1	15	15	7.3	22	22
	6.97	70	4.8	14	13	6.1	18	18	8.8	27	27
	8.55	70	5.8	18	16	7.5	23	23	11	33	33
	9.92	70	6.8	20	18	8.7	26	26	13	38	38
	10.67	90	7.3	22	20	9.4	28	28	14	41	41
	11.65	70	8.0	24	22	10	31	31			
	12.70	70	8.7	26	24	11	33	33			
	13.89	90	9.5	28	26	12	37	37	18	53	53
	15.67	90	11	32	29	14	41	41	20	60	60
	18.94	90	13	39	35	17	50	50	24	72	72
	21.33	110	15	44	40	19	56	56	27	81	81
	23.25	90	16	48	43	20	61	61	30	89	89
	26.96	90	18	55	50	24	71	71	34	103	103
	27.78	110	19	57	52	24	73	73	35	106	106
	31.33	110	21	64	58	28	83	83	40	119	119
	31.67	90	22	65	59	28	83	83			
	34.52	90	24	71	64	30	91	91			
	37.88	110	26	78	70	33	100	100	48	144	144
	46.49	110	32	95	86	41	123	123	59	177	177
	53.92	110	37	111	100	47	142	142	68	205	205
	63.33	110	43	130	117	56	167	167			
	69.05	110	47	142	128	61	182	182			

m [kg]		DRM									
	s	71S12			71M12			90M12			
W37	 2	13			14			23			
WF: + 0.0 kg / WA: + 0.0 kg / WAF: + 0.0 kg											



→ 15

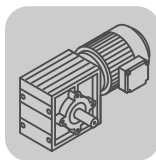


W 37R17

M _a [Nm]			DRM					
i	M _{amax} [Nm]		S1	71S12 S3	S1 /V	S1	71M12 S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7
W37R17  2  2	48	90	32	96	87	41	123	123
	53	90	35	106	96	45	136	136
	63	90	42	126	114	54	162	162
	73	90	49	146	132	63		
	82	110	55	164	148	70	210	210
	96	110	64	192	174	82		
	109	110	73	215	197	93		
	125	110	83			107		
	141	110	94			121		
	160	110	107			137		
	184	110	123			158		
	207	110	138			178		
	233	110	155			200		
	267	110	178					
	286	110	191					
	327	110	215					

m [kg]		DRM	
	s	71S12	71M12
W37R17	 2  2	15	17
W37R17	 2  3	15	17
WF: + 0.0 kg / WA: + 0.0 kg / WAF: + 0.0 kg			

	→  15

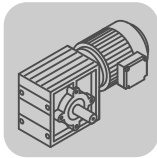

W 47

	M_a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M_{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	1.9	0.9	2.7	2.7	1.3	3.9	3.9	2.3	6.9	5.0	2.6	7.8	7.0
W47 	3.27	110	2.2	6.7	6.1	2.9	8.6	8.6	4.1	12	12	7.3	22	16	8.3	25	22
	3.89	110	2.7	8.0	7.2	3.4	10	10	4.9	15	15	8.7	26	19	9.9	30	27
	4.40	110	3.0	9.0	8.2	3.9	12	12	5.6	17	17	9.9	30	21	11	34	30
	5.23	110	3.6	11	9.7	4.6	14	14	6.6	20	20	12	35	26	13	40	36
	5.58	110	3.8	11	10	4.9	15	15	7.1	21	21	13	38	27	14	42	38
	6.53	110	4.5	13	12	5.7	17	17	8.3	25	25	15	44	32	17	50	45
	7.32	110	5.0	15	14	6.4	19	19	9.3	28	28	16	49	36	19	56	50
	8.61	110	5.9	18	16	7.6	23	23	11	33	33	19	58	42	22	66	59
	9.96	110	6.8	20	18	8.8	26	26	13	38	38	22	67	49	25	76	68
	10.66	110	7.3	22	20	9.4	28	28	14	41	41	24	72	52	27	81	73
	11.32	160	7.7	23	21	9.9	30	30	14	43	43	25	76	55	29	86	77
	12.30	110	8.4	25	23	11	32	32	16	47	47	28	83	60	31	94	84
	13.44	160	9.2	28	25	12	35	35	17	51	51	30	91	66	34	102	92
	14.35	160	9.8	29	27	13	38	38	18	55	55	32	97	70	36	109	98
	16.80	160	11	34	31	15	44	44	21	64	64	38	113	82	43	128	115
	18.82	160	13	39	35	17	50	50	24	72	72	42	127	92	48	143	129
	22.15	160	15	45	41	19	58	58	28	84	84	50	149	108	56	169	151
	25.07	180	17	51	46	22	66	66	32	95	95	56	169	122	64	191	171
	25.62	160	18	53	48	23	68	68	33	98	98	58	173	125	65	195	175
	26.76	180	18	55	50	24	71	71	34	102	102	60	180	131	68	200	183
	27.41	160	19	56	51	24	72	72	35	104	104	62	185	134	70	205	187
	31.33	180	21	64	58	28	83	83	40	119	119	70	210	153	80	235	210
	31.62	160	22	65	59	28	83	83	40	120	120	71	210	154	80	240	215
	35.09	180	24	72	65	31	92	92	45	134	134	79	235	171	89	265	235
	41.30	180	28	85	77	36	109	109	52	157	157	93	275	200	105	310	280
	47.78	180	33	98	89	42	126	126	61	182	182	107	320	230	121		325
	51.12	180	35	105	95	45	135	135	65	195	195	115	340	245	130		345
	58.98	180	40	121	109	52	155	155	75	220	220	132		285	150		
	68.93	180	47	141	128	61	182	182									
	74.98	180	51	154	139	66	198	198									

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
W47	23	18	19	29	37	40
WF: + 0.5 kg / WA: + -1.5 kg / WAF: + -0.7 kg						



→ 15

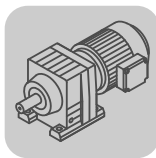


W 47R17

M _a [Nm]			DRM					
i	M _{amax}	[Nm]	S1	71S12 S3	S1 /V	S1	71M12 S3	S1 /V
			0.7	2.1	1.9	0.9	2.7	2.7
W47R17  2  2	72	160	48	144	130	62	185	185
	77	160	51	154	139	66	198	198
	85	160	57	170	154	73	215	215
	95	160	63	190	172	81	240	240
	105	160	70	210	190	90	270	270
	120	180	80	240	215	103	305	305
	124	160	83	245	220	106	315	315
	141	180	94	280	255	121		
	159	180	106	315	285	136		
	183	180	122		330	157		
	210	180	140			180		
	237	180	158			200		
	265	180	177			225		
	270	180	180			230		
	291	180	194			245		
	318	180	210			270		
	359	180	235			305		
	386	180	255			330		
	434	180	285					
	473	180	315					
	536	180	355					

m [kg]		DRM	
	s	71S12	71M12
W47R17	 2  2	21	22
W47R17	 2  3	21	22
WF: + 0.5 kg / WA: + -1.5 kg / WAF: + -0.7 kg			

	→  15



9 R..DRM – 60 Hz

9.1 RX..DRM

RX 57

M_a [Nm]			DRM														
	i	M_{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
RX57 	1.30	63	0.8	2.3	1.9	0.9	2.7	2.7	1.4	4.2	4.1	2.4	7.3	5.8	2.7	8.1	7.6
	1.48	68	0.9	2.6	2.2	1.0	3.1	3.1	1.6	4.8	4.7	2.8	8.3	6.6	3.1	9.2	8.6
	1.65	69	1.0	2.9	2.4	1.1	3.4	3.4	1.8	5.4	5.2	3.1	9.3	7.3	3.4	10	9.6
	1.92	69	1.1	3.4	2.8	1.3	4.0	4.0	2.1	6.3	6.1	3.6	11	8.5	4.0	12	11
	2.04	69	1.2	3.6	3.0	1.4	4.2	4.2	2.2	6.7	6.4	3.8	11	9.1	4.2	13	12
	2.37	69	1.4	4.2	3.5	1.6	4.9	4.9	2.6	7.7	7.5	4.4	13	11	4.9	15	14
	2.64	69	1.6	4.7	3.9	1.8	5.5	5.5	2.9	8.6	8.3	5.0	15	12	5.5	16	15
	2.91	67	1.7	5.2	4.3	2.0	6.0	6.0	3.2	9.5	9.2	5.5	16	13	6.0	18	17
	3.14	65	1.9	5.6	4.7	2.2	6.5	6.5	3.4	10	9.9	5.9	18	14	6.5	20	18
	3.55	69	2.1	6.3	5.3	2.5	7.4	7.4	3.9	12	11	6.7	20	16	7.4	22	21
	3.79	69	2.2	6.7	5.6	2.6	7.9	7.9	4.1	12	12	7.1	21	17	7.9	24	22
	4.35	68	2.6	7.7	6.4	3.0	9.0	9.0	4.7	14	14	8.2	24	19	9.0	27	25
	5.07	36	3.0	9.0	7.5	3.5	11	11									
	5.50	39	3.3	9.8	8.2	3.8	11	11									

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
RX57		16	17	27	35	38
RXF: + 1.9 kg						

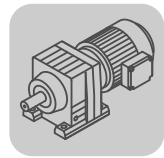
RX 67

M_a [Nm]			DRM														
	i	M_{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
RX67 	1.40	104							1.5	4.6	4.4	2.6	7.9	6.2	2.9	8.7	8.2
	1.61	114	1.0	2.9	2.4	1.1	3.3	3.3	1.7	5.2	5.1	3.0	9.1	7.2	3.3	10	9.4
	1.86	126	1.1	3.3	2.8	1.3	3.9	3.9	2.0	6.1	5.9	3.5	10	8.3	3.9	12	11
	2.04	134	1.2	3.6	3.0	1.4	4.2	4.2	2.2	6.7	6.4	3.8	11	9.1	4.2	13	12
	2.40	123	1.4	4.3	3.6	1.7	5.0	5.0	2.6	7.8	7.6	4.5	14	11	5.0	15	14
	2.54	118	1.5	4.5	3.8	1.8	5.3	5.3	2.8	8.3	8.0	4.8	14	11	5.3	16	15
	2.89	106	1.7	5.1	4.3	2.0	6.0	6.0	3.1	9.4	9.1	5.4	16	13	6.0	18	17
	3.20	100	1.9	5.7	4.7	2.2	6.6	6.6	3.5	10	10	6.0	18	14	6.6	20	19
	3.77	87	2.2	6.7	5.6	2.6	7.8	7.8	4.1	12	12	7.1	21	17	7.8	23	22
	4.30	80	2.5	7.6	6.4	3.0	8.9	8.9	4.7	14	14	8.1	24	19	8.9	27	25
	4.53	82	2.7	8.1	6.7	3.1	9.4	9.4	4.9	15	14	8.5	26	20	9.4	28	26
	5.18	75	3.1	9.2	7.7	3.6	11	11	5.6	17	16	9.7	29	23	11	32	30
	6.07	43	3.6	11	9.0	4.2	13	13									

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
RX67		19	20	30	37	40
RXF: + 4.0 kg						



→ 15



RX 77

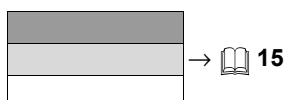
M _a [Nm]			DRM																				
i	M _{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9	2.5	7.5	6.2	2.7	8.1	7.1
RX77  1	1.42	155							1.5	4.6	4.5	2.7	8.0	6.3	2.9	8.8	8.3	3.5	11	8.7	3.8	11	10.0
	1.67	173							1.8	5.4	5.3	3.1	9.4	7.4	3.5	10	9.7	4.1	12	10	4.5	13	12
	1.88	187							2.0	6.1	5.9	3.5	11	8.4	3.9	12	11	4.6	14	12	5.0	15	13
	2.13	200	1.3	3.8	3.2	1.5	4.4	4.4	2.3	6.9	6.7	4.0	12	9.5	4.4	13	12	5.3	16	13	5.7	17	15
	2.43	215	1.4	4.3	3.6	1.7	5.0	5.0	2.6	7.9	7.7	4.6	14	11	5.0	15	14	6.0	18	15	6.5	19	17
	2.70	215	1.6	4.8	4.0	1.9	5.6	5.6	2.9	8.8	8.5	5.1	15	12	5.6	17	16	6.7	20	17	7.2	22	19
	3.08	193	1.8	5.5	4.6	2.1	6.4	6.4	3.3	10	9.7	5.8	17	14	6.4	19	18	7.6	23	19	8.2	25	22
	3.25	182	1.9	5.8	4.8	2.2	6.7	6.7	3.5	11	10	6.1	18	14	6.7	20	19	8.0	24	20	8.7	26	23
	3.70	153	2.2	6.6	5.5	2.6	7.7	7.7	4.0	12	12	6.9	21	16	7.7	23	22	9.1	27	23	9.9	30	26
	4.04	143	2.4	7.2	6.0	2.8	8.4	8.4	4.4	13	13	7.6	23	18	8.4	25	24	10.0	30	25	11	32	28
	4.73	123	2.8	8.4	7.0	3.3	9.8	9.8	5.1	15	15	8.9	27	21	9.8	29	28	12	35	29	13	38	33
	5.35	103	3.2	9.5	7.9	3.7	11	11	5.8	17	17	10	30	24	11	33	31	13	40	33	14	43	38
	5.63	110	3.3	10	8.3	3.9	12	12	6.1	18	18	11	32	25	12	35	33	14	42	34	15	45	39
	6.41	103	3.8	11	9.5	4.4	13	13	7.0	21	20	12	36	28	13	40	37						
	7.47	53	4.4	13	11	5.2	15	15															
8.00	57	4.7	14	12	5.5	17	17																

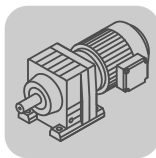
m [kg]		DRM																				
	s	71S12			71M12			90M12			100M12			100L12			132S12			132M12		
RX77		30			31			40			47			50			65			78		
RXF: + 2.3 kg																						

RX 87

M _a [Nm]			DRM																	
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9	2.5	7.5	6.2	2.7	8.1	7.1
RX87  1	2.15	385				2.3	7.0	6.8	4.0	12	9.6	4.5	13	13	5.3	16	13	5.7	17	15
	2.48	405				2.7	8.1	7.8	4.7	14	11	5.1	15	14	6.1	18	15	6.6	20	17
	2.76	405				3.0	9.0	8.7	5.2	16	12	5.7	17	16	6.8	20	17	7.4	22	19
	3.09	405	2.1	6.4	6.4	3.4	10	9.8	5.8	17	14	6.4	19	18	7.6	23	19	8.2	25	22
	3.48	405	2.4	7.2	7.2	3.8	11	11	6.5	20	15	7.2	22	20	8.6	26	21	9.3	28	24
	3.78	305	2.6	7.8	7.8	4.1	12	12	7.1	21	17	7.8	24	22	9.3	28	23	10	30	27
	4.50	290	3.1	9.3	9.3	4.9	15	14	8.4	25	20	9.3	28	26	11	33	28	12	36	32
	5.07	250	3.5	11	11	5.5	17	16	9.5	29	23	11	32	30	13	38	31	14	41	36
	5.56	225	3.8	12	12	6.0	18	18	10	31	25	12	35	32	14	41	34	15	44	39
	6.45	192	4.5	13	13	7.0	21	20	12	36	29	13	40	38	16	48	40	17	52	45
	7.20	140	5.0	15	15	7.8	23	23	14	41	32	15	45	42	18	53	44	19	58	51
	7.63	149	5.3	16	16	8.3	25	24	14	43	34	16	47	44	19	57	47	20	61	54
8.65	139	6.0	18	18	9.4	28	27	16	49	38	18	54	50							

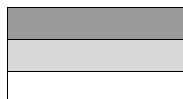
m [kg]		DRM													
	s	71M12			90M12		100M12		100L12		132S12		132M12		
RX87		47			56		64		67		82		95		
RXF: + 5.0 kg															

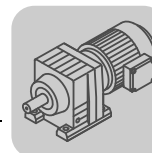



RX 97

M_a [Nm]			DRM																	
i	M_{amax}	[Nm]	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9	2.5	7.5	6.2	2.7	8.1	7.1
RX97 	2.92	595				3.2	9.5	9.2	5.5	16	13	6.1	18	17	7.2	22	18	7.8	23	20
	3.30	595				3.6	11	10	6.2	19	15	6.8	21	19	8.2	24	20	8.8	26	23
	3.64	595				4.0	12	12	6.8	20	16	7.6	23	21	9.0	27	22	9.7	29	26
	4.04	595	2.8	8.4	8.4	4.4	13	13	7.6	23	18	8.4	25	24	10.0	30	25	11	32	28
	4.52	595	3.1	9.4	9.4	4.9	15	14	8.5	25	20	9.4	28	26	11	33	28	12	36	32
	4.91	395	3.4	10	10	5.3	16	16	9.2	28	22	10	31	29	12	36	30	13	39	34
	5.79	420	4.0	12	12	6.3	19	18	11	33	26	12	36	34	14	43	35	15	46	41
	6.56	300	4.5	14	14	7.1	21	21	12	37	29	14	41	38	16	49	40	17	52	46
	7.16	260	5.0	15	15	7.8	23	23	13	40	32	15	45	42	18	53	44	19	57	50
	8.23	225	5.7	17	17	8.9	27	26	15	46	37	17	51	48	20	61	50	22	66	58

m [kg]		DRM					
s		71M12	90M12	100M12	100L12	132S12	132M12
RX97		72	80	87	90	105	120
RXF: + 8.6 kg							


 →  **15**



9.2 R..DRM

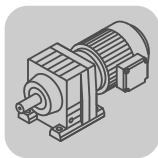
R 07

	M _a [Nm]		DRM					
	i	M _{amax}	S1	71S12 S3	S1 /V	S1	71M12 S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1
R07 	3.21	31	1.9	5.6	4.7	2.2	6.6	6.6
	3.68	33	2.2	6.5	5.4	2.5	7.5	7.5
	3.95	34	2.3	6.9	5.8	2.7	8.1	8.1
	4.57	36	2.7	8.0	6.7	3.1	9.4	9.4
	4.92	37	2.9	8.6	7.2	3.4	10	10
	5.76	40	3.4	10	8.4	3.9	12	12
	6.83	43	4.0	12	10	4.7	14	14
	7.48	43	4.4	13	11	5.1	15	15
	7.85	49	4.6	14	11	5.4	16	16
	9.01	50	5.3	16	13	6.2	18	18
	9.67	50	5.7	17	14	6.6	20	20
	11.18	50	6.5	20	16	7.6	23	23
	12.06	50	7.1	21	18	8.2	25	25
	14.12	50	8.3	25	21	9.6	29	29
	16.73	50	9.8	29	24	11	34	34
	18.31	50	11	32	27	13	38	38
R07 	21.73	50	13	38	31	15	44	44
	23.32	50	13	40	34	16	47	47
	26.97	50	16	47	39	18	55	55
	29.08	50	17	50	42	20	59	59
	34.05	50	20	59	49	23	69	69
	38.51	50	22	67	56	26	78	78
	40.34	50	23	70	58	27	82	82
	41.31	50	24	72	60	28	84	84
	44.16	50	26	77	64	30	89	89
	47.78	50	28	83	69	32	97	97
	51.52	50	30	89	75	35		
	60.32	50	35		87	41		
	71.47	50	41			48		
	78.24	50	45			53		

m [kg]		DRM	
	s	71S12	71M12
R07		8.8	10
R07		9.0	10

RF: + 0.0 kg

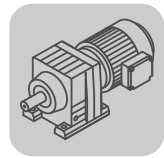



R 17

	M_a [Nm]		DRM					
	i	M_{amax} [Nm]	S1	71S12 S3	S1 /V	S1	71M12 S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1
R17 	3.83	45	2.2	6.7	5.6	2.6	7.9	7.9
	4.51	48	2.6	7.9	6.6	3.1	9.2	9.2
	5.09	51	3.0	8.9	7.5	3.5	10	10
	5.76	53	3.4	10	8.4	3.9	12	12
	6.15	54	3.6	11	9.0	4.2	13	13
	7.04	55	4.1	12	10	4.8	14	14
	7.55	56	4.4	13	11	5.2	15	15
	8.63	72	5.1	15	13	5.9	18	18
	10.15	77	5.9	18	15	6.9	21	21
	11.45	81	6.7	20	17	7.8	23	23
	12.98	85	7.6	23	19	8.9	27	27
	13.84	85	8.1	24	20	9.5	28	28
	15.84	85	9.3	28	23	11	32	32
	16.99	85	10.0	30	25	12	35	35
	19.71	85	12	35	29	13	40	40
	23.15	85	14	41	34	16	47	47
R17 	25.23	85	15	44	37	17	52	52
	24.07	85	14	42	35	16	49	49
	28.32	85	16	49	41	19	57	57
	31.94	85	18	55	46	22	65	65
	36.20	85	21	63	52	24	73	73
	38.61	85	22	67	56	26	78	78
	44.18	85	26	77	64	30	89	89
	47.44	85	27	82	69	32	96	96
	53.76	85	31	93	78	36	109	109
	57.35	85	33	100	83	39	116	116
	65.61	85	38	114	95	44	133	133
	70.39	85	41	122	102	48	143	143
	81.64	85	47	142	118	55	165	165

m [kg]		DRM	
	s	71S12	71M12
R17		9.8	11
R17		10	11
RF: + -0.1 kg			


→ **15**

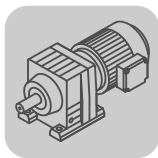


R 27

	M _a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M _{amax} [Nm]	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
R27 	3.37	79	2.0	5.9	4.9	2.3	6.9	6.9	3.6	11	11	6.3	19	15	6.9	21	19
	4.00	85	2.3	7.0	5.9	2.7	8.2	8.2	4.3	13	12	7.4	22	18	8.2	25	23
	4.27	87	2.5	7.5	6.3	2.9	8.8	8.8	4.6	14	13	7.9	24	19	8.8	26	25
	5.00	95	2.9	8.8	7.3	3.4	10	10	5.4	16	16	9.3	28	22	10	31	29
	5.60	99	3.3	9.8	8.2	3.8	11	11	6.0	18	17	10	31	25	11	34	32
	6.59	106	3.9	12	9.6	4.5	14	14	7.1	21	21	12	37	29	14	41	38
	7.63	112	4.5	13	11	5.2	16	16	8.2	25	24	14	42	34	16	47	44
	8.16	116	4.8	14	12	5.6	17	17	8.8	26	25	15	45	36	17	50	47
	9.41	122	5.5	17	14	6.4	19	19	10	30	29	17	52	41	19	58	54
	10.13	122	5.9	18	15	6.9	21	21	11	33	32	19	56	44	21	62	58
	11.86	129	6.9	21	17	8.1	24	24	13	38	37	22	66	52	24	73	68
	13.28	130	7.8	23	19	9.1	27	27	14	43	41	25	74	58	27	82	76
	15.63	130	9.2	27	23	11	32	32	17	50	49	29	87	69	32	96	90
	18.08	130	11	32	26	12	37	37	19	58	56	34	101	79	37	111	104
	19.35	130	11	34	28	13	40	40	21	62	60	36	108	85	40	119	111
	22.32	130	13	39	33	15	46	46	24	72	70	41	124	98	46	137	129
	26.09	130	15	46	38	18	53	53									
	28.37	130	17	50	42	19	58	58									
R27 	24.47	130	14	42	35	17	50	50	26	78	76	45	135	106	50	149	139
	28.78	130	17	50	42	19	58	58	31	92	89	53	158	125	58	175	164
	32.47	130	19	56	47	22	66	66	34	103	100	59	178	141	66	197	185
	36.79	130	21	64	53	25	75	75	39	117	114	67	200	160	75	220	205
	39.25	130	23	68	57	26	79	79	42	125	121	72	215	170	79	235	220
	44.90	130	26	78	65	30	91	91	48	143	139	82	245	195	91		255
	48.17	130	28	84	70	33	98	98	51	153	149	88		205	98		
	55.87	130	32	97	81	38	113	113	59	178	172	102		240	113		
	61.30	130	35	106	89	41	124	124	65	195	189	112			124		
	69.47	130	40	121	100	47	141	141	74	220	210	127			141		
	74.11	130	43	129	107	50	150	150	79	235	225	136			150		
	84.78	130	49	147	123	57	172	172	90			155			172		
	90.96	130	53	158	132	61	184	184	96			167			184		
	105.49	130	61	183	153	71	210	210	112			193			210		
	123.91	130	72	215	179	84	250	250									
	135.09	130	78	230	195	91											

m [kg]		71S12	71M12	DRM 90M12	100M12	100L12
R27		11	12	21	29	32
R27		11	12	21	29	32
RF: + -0.1 kg						

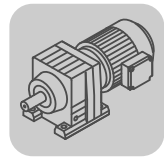



R 27R17

M_a [Nm]			DRM					
	i	M_{amax}	S1	71S12	S1	S1	71M12	S1
		[Nm]	0.6	1.8	/V	0.7	2.1	/V
					1.5			2.1
R27R17  2 	90	130	51	154	129	60	180	180
	104	130	59	178	149	69	205	205
	118	130	67	200	169	79	235	235
	135	130	77	230	193	90		
	156	130	89		220	104		
	179	130	102		255	119		
	203	130	116			135		
	227	130	130			151		
	256	130	146			171		
	290	130	166			193		
	329	130	188			215		
	381	130	215			250		
R27R17  3 	94	130	53	159	133	62	186	186
	110	130	62	186	155	72	215	215
	124	130	70	210	175	82	245	245
	141	130	80	235	199	93		
	150	130	85	250	210	99		
	166	130	94		230	109		
	177	130	100		245	117		
	200	130	113			132		
	229	130	129			151		
	259	130	146			171		
	296	130	167			195		
	339	130	191			220		
	387	130	215			255		
	432	130	240					

m [kg]		DRM	
	s	71S12	71M12
R27R17	 2 	13	15
R27R17	 2 	14	15
R27R17	 3 	14	15
R27R17	 3 	14	15
RF: + -0.1 kg			


 →  **15**

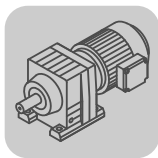


R 37

	M _a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M _{amax} [Nm]	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
R37  2	3.41	112	2.0	6.0	5.0	2.3	7.0	7.0	3.7	11	11	6.3	19	15	7.0	21	20
	4.05	122	2.4	7.1	5.9	2.8	8.3	8.3	4.3	13	13	7.5	23	18	8.3	25	23
	4.32	126	2.5	7.6	6.3	3.0	8.9	8.9	4.6	14	13	8.0	24	19	8.9	27	25
	5.06	135	3.0	8.9	7.4	3.5	10	10	5.4	16	16	9.4	28	22	10	31	29
	5.67	142	3.3	10.0	8.3	3.9	12	12	6.1	18	18	11	32	25	12	35	33
	6.67	144	3.9	12	9.8	4.6	14	14	7.2	21	21	12	37	29	14	41	38
	7.97	156	4.7	14	12	5.4	16	16	8.6	26	25	15	44	35	16	49	46
	9.47	167	5.5	17	14	6.5	19	19	10	31	30	18	53	42	19	58	55
	10.11	170	5.9	18	15	6.9	21	21	11	33	32	19	56	44	21	62	58
	11.83	183	6.9	21	17	8.1	24	24	13	38	37	22	66	52	24	73	68
	13.25	190	7.8	23	19	9.1	27	27	14	43	41	25	74	58	27	81	76
	15.60	200	9.1	27	23	11	32	32	17	50	49	29	87	69	32	96	90
	18.05	200	11	32	26	12	37	37	19	58	56	33	100	79	37	111	104
	19.31	200	11	34	28	13	40	40	21	62	60	36	107	85	40	119	111
	22.27	200	13	39	33	15	46	46	24	72	70	41	124	98	46	137	128
	26.03	185	15	46	38	18	53	53									
	28.32	200	17	50	41	19	58	58									
R37  3	24.42	200	14	42	35	16	49	49	26	78	75	45	134	106	49	148	139
	28.73	200	17	50	42	19	58	58	30	91	89	53	158	125	58	175	163
	32.40	200	19	56	47	22	66	66	34	103	100	59	178	141	66	197	184
	36.72	200	21	64	53	25	74	74	39	117	113	67	200	159	74	220	205
	39.17	200	23	68	57	26	79	79	42	125	121	72	215	170	79	235	220
	44.81	200	26	78	65	30	91	91	48	143	138	82	245	194	91	270	250
	48.08	200	28	83	70	32	97	97	51	153	148	88	260	205	97	290	270
	55.76	200	32	97	81	38	113	113	59	177	172	102	305	240	113	335	315
	61.18	200	35	106	89	41	124	124	65	195	189	112	335	265	124	370	345
	69.33	200	40	120	100	47	140	140	74	220	210	127	380	300	140		390
	73.96	200	43	128	107	50	150	150	78	235	225	136		320	150		
	84.61	200	49	147	122	57	171	171	90	265	260	155		365	171		
	90.77	200	53	158	131	61	184	184	96	285	280	166		390	184		
	105.28	200	61	183	152	71	210	210	112	335	320	193			210		
	123.66	200	72	210	179	83	250	250									
	134.82	200	78	230	195	91	270	270									

m [kg]		DRM				
	s	71S12	71M12	90M12	100M12	100L12
R37	 2	17	18	27	34	37
R37	 3	17	18	27	35	38
RF: + 1.5 kg						

	→  15

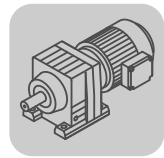

R 37R17

M_a [Nm]			DRM					
	i	M_{amax}	S1	71S12	S1	S1	71M12	S1
		[Nm]	0.6	1.8	/V	0.7	2.1	/V
R37R17  2 	90	200	51	154	129	60	180	180
	104	200	59	178	149	69	205	205
	127	200	73	215	182	85	250	250
	135	200	77	230	193	90	270	270
	156	200	89	265	220	104	310	310
	179	200	102	305	255	119	355	355
	202	200	115	345	285	135		
	226	200	129	385	320	151		
	265	200	152		375	177		
	289	200	165			193		
	328	200	188			215		
	378	200	215			250		
	439	200	250			290		
	498	200	280			325		
R37R17  2 	577	200	325			380		
	653	200	365					
R37R17  3 	94	200	53	159	133	62	186	186
	110	200	62	186	155	72	215	215
	124	200	70	210	175	82	245	245
	130	200	73	220	184	86	255	255
	150	200	85	250	210	99	295	295
	172	200	97	290	240	113	340	340
	199	200	112	335	280	131	390	390
	228	200	129	385	320	150		
	259	200	146		365	171		
	296	200	167			195		
	338	200	191			220		
	387	200	215			255		
	431	200	240			280		
	508	200	285			330		
	566	200	315			370		
	647	200	365					

m [kg]		DRM	
	s	71S12	71M12
R37R17	 2 	19	20
R37R17	 2 	19	21
R37R17	 3 	19	21
R37R17	 3 	20	21
RF: + 1.5 kg			



→ 15

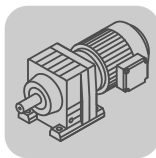


R 47

	M _a [Nm]		DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
R47  2	3.83	144	2.2	6.7	5.6	2.6	7.9	7.9	4.1	12	12	7.1	21	17	7.9	24	22
	4.34	146	2.5	7.6	6.4	3.0	8.9	8.9	4.7	14	14	8.0	24	19	8.9	27	25
	4.85	150	2.8	8.5	7.1	3.3	9.9	9.9	5.2	16	15	9.0	27	21	9.9	30	28
	5.64	155	3.3	9.9	8.3	3.9	12	12	6.1	18	18	10	31	25	12	35	32
	6.00	156	3.5	11	8.8	4.1	12	12	6.4	19	19	11	33	26	12	37	35
	6.96	159	4.1	12	10	4.8	14	14	7.5	22	22	13	39	31	14	43	40
	7.76	163	4.5	14	11	5.3	16	16	8.3	25	24	14	43	34	16	48	45
	8.01	205	4.7	14	12	5.5	16	16	8.6	26	25	15	45	35	16	49	46
	9.07	220	5.3	16	13	6.2	19	19	9.7	29	28	17	50	40	19	56	52
	10.15	230	5.9	18	15	6.9	21	21	11	33	32	19	56	45	21	62	58
	11.79	245	6.9	21	17	8.1	24	24	13	38	37	22	66	52	24	73	68
	12.54	250	7.3	22	18	8.6	26	26	13	40	39	23	70	55	26	77	72
	14.56	265	8.5	26	21	9.9	30	30	16	47	45	27	81	64	30	90	84
	16.22	275	9.5	28	24	11	33	33	17	52	51	30	90	71	33	100	93
	17.89	290	10	31	26	12	37	37	19	58	56	33	100	79	37	110	103
	19.27	295	11	34	28	13	40	40	21	62	60	36	107	85	40	119	111
	21.81	300	13	38	32	15	45	45	23	70	68	40	121	96	45	134	126
	23.28	300	14	41	34	16	48	48	25	75	73	43	130	102	48	143	134
	26.74	300	16	47	39	18	55	55	29	86	84	50	149	117	55	164	154
	31.12	220	18	55	46	21	64	64									
	33.79	240	20	59	49	23	69	69									
R47  3	23.59	300	14	41	34	16	48	48	25	75	73	43	130	102	48	143	134
	26.70	300	15	46	39	18	54	54	28	85	82	49	147	116	54	162	152
	29.88	300	17	52	43	20	61	61	32	95	92	55	164	130	61	182	170
	34.73	300	20	60	50	23	70	70	37	111	107	64	191	151	70	210	198
	36.93	300	21	64	53	25	75	75	39	118	114	68	200	160	75	220	210
	42.87	300	25	74	62	29	87	87	45	136	132	79	235	186	87	260	240
	47.75	300	28	83	69	32	97	97	51	152	147	87	260	205	97	290	270
	52.69	300	30	91	76	36	107	107	56	168	163	97	285	225	107	320	295
	56.73	300	33	98	82	38	115	115	60	181	175	104	310	245	115	340	320
	64.21	300	37	111	93	43	130	130	68	200	198	118	350	275	130	390	365
	68.54	300	40	119	99	46	139	139	73	215	210	126	375	295	139	415	390
	76.23	300	44	132	110	51	154	154	81	240	235	140	415	330	154	460	430
	84.90	300	49	147	123	57	172	172	90	270	260	156	465	365	172	515	480
	93.68	300	54	163	136	63	190	190	99	295	285	172	510	405	190	565	530
	100.86	300	58	175	146	68	200	200	107	320	310	185	550	435	200		570
	114.17	300	66	198	165	77	230	230	121	360	350	205		495	230		
	121.87	300	71	210	176	82	245	245	129	385	375	220		525	245		
	139.99	300	81	240	200	95	280	280	149	445	430	255			280		
	162.94	300	94	280	235	110	330	330									
	176.88	300	102	305	255	119	355	355									

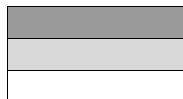
m [kg]		DRM					
	s	71S12	71M12	90M12	100M12	100L12	
R47	 2	20	21	31	38	41	
R47	 3	20	22	32	39	42	
RF: + 0.1 kg							



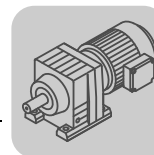

R 47R37

M_a [Nm]			DRM														
i	M_{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
R47R37 2 2	98	300	56	168	140	65	196	196	103	305	295	177	530	420	196	585	550
	109	300	62	187	156	73	215	215	114	340	330	197	590	465	215		
	129	300	74	220	184	86	255	255	135	405	390	230		550	255		
	154	300	88	260	220	103	305	305	161	480	465	275			305		
	182	300	104	310	260	121	360	360	191	570	550	325			360		
	195	300	111	330	275	130	390	390	200		590	350			390		
	228	300	130	390	325	152	455	455	235			410			455		
	255	300	146	435	360	170	510	510	265			460			510		
	301	300	172	515	430	200			315			540					
	348	300	199	595	495	230			360								
	372	300	210		530	245			385								
	429	300	245			285			445								
	502	300	285			330											
	546	300	310			360											
R47R37 2 3	471	300	265			310			485								
	554	300	310			365			570								
	624	300	350			410											
	708	300	395			465											
	755	300	425			495											
	863	300	485			565											
	927	300	520														
R47R37 3 2	344	300	194	580	485	225			355								
	408	300	230		575	265			420								
	436	300	245			285			450								
	510	300	285			335			525								
	572	300	320			375			590								
	673	300	380			440											
	804	300	450			525											
	955	300	535														
	1020	300	575														

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
R47R37	2 2	31	32	41	49	52	
R47R37	2 3	31	32	41	49	52	
R47R37	3 2	31	32	42	49	52	
R47R37	3 3	32	33	42	49	52	
RF: + 0.1 kg							



→ 15

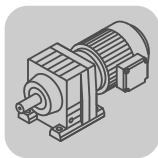


R 57

	M _a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M _{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
R57 	4.39	280							4.7	14	14	8.1	24	19	9.0	27	25
	5.05	305	3.0	8.9	7.4	3.5	10	10	5.4	16	16	9.4	28	22	10	31	29
	5.82	320	3.4	10	8.5	4.0	12	12	6.2	19	18	11	32	26	12	36	34
	6.41	335	3.8	11	9.4	4.4	13	13	6.9	21	20	12	36	28	13	39	37
	7.53	350	4.4	13	11	5.1	15	15	8.1	24	24	14	42	33	15	46	43
	7.97	355	4.7	14	12	5.4	16	16	8.6	26	25	15	44	35	16	49	46
	9.06	375	5.3	16	13	6.2	19	19	9.7	29	28	17	50	40	19	56	52
	9.35	370	5.5	16	14	6.4	19	19	10	30	29	17	52	41	19	57	54
	10.79	390	6.3	19	16	7.4	22	22	12	35	34	20	60	47	22	66	62
	11.88	405	7.0	21	17	8.1	24	24	13	38	37	22	66	52	24	73	68
	13.95	430	8.2	25	20	9.5	29	29	15	45	44	26	78	61	29	86	80
	14.77	435	8.7	26	22	10	30	30	16	48	46	27	82	65	30	91	85
	16.79	450	9.8	30	25	11	34	34	18	54	52	31	93	74	34	103	97
	18.60	450	11	33	27	13	38	38	20	60	58	34	103	82	38	114	107
	21.93	450	13	39	32	15	45	45	24	71	69	41	122	96	45	135	126
	24.99	450	15	44	37	17	51	51	27	80	78	46	139	110	51	154	144
	26.31	450	15	46	39	18	54	54	28	85	82	49	146	116	54	162	152
R57 	26.97	450	16	47	39	18	55	55	29	86	83	49	148	117	55	164	153
	30.18	450	17	52	44	20	61	61	32	96	93	55	166	131	61	183	172
	35.07	450	20	61	51	24	71	71	37	112	108	64	193	152	71	210	200
	37.30	450	22	65	54	25	76	76	40	119	115	68	205	162	76	225	210
	43.30	450	25	75	63	29	88	88	46	138	134	79	235	188	88	260	245
	48.23	450	28	84	70	33	98	98	51	153	149	88	265	205	98	290	270
	53.22	450	31	92	77	36	108	108	56	169	164	98	290	230	108	320	300
	57.29	450	33	99	83	39	116	116	61	182	177	105	310	245	116	345	325
	64.85	450	38	113	94	44	131	131	69	205	200	119	355	280	131	390	365
	69.23	450	40	120	100	47	140	140	73	220	210	127	380	300	140	420	390
	80.55	450	47	140	117	54	163	163	85	255	245	148	440	345	163	485	455
	89.71	450	52	156	130	61	182	182	95	285	275	164	490	385	182	545	510
	98.99	450	57	172	143	67	200	200	105	315	305	181	540	425	200	600	560
	106.58	450	62	185	154	72	215	215	113	335	325	195	585	460	215	645	605
	120.63	450	70	205	175	81	240	240	128	380	370	220	660	520	240	730	685
	128.77	450	75	220	186	87	260	260	137	405	395	235	705	555	260	780	730
	147.92	450	86	255	210	100	295	295	157	470	455	270	810	640	295	890	840
	172.17	450	100	295	245	116	345	345									
	186.89	450	108	320	270	126	375	375									

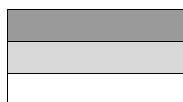
m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
R57	2	25	26	36	43	46
R57	3	26	27	37	44	47
RF: + 3.4 kg / RM: + 15.4 kg						

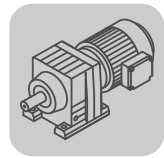
→ 15


R 57R37

M_a [Nm]			DRM														
	i	M_{amax}	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
R57R37 	134	450	77	225	192	89	265	265	140	420	405	240	725	570	265	800	750
	146	450	83	250	205	97	290	290	153	455	445	260	790	625	290	870	820
	159	450	91	270	225	106	315	315	167	495	480	285	860	680	315		890
	188	450	107	320	265	125	375	375	197	590	570	340		800	375		
	220	450	126	375	310	147	440	440	230	690	670	395			440		
	246	450	141	420	350	164	490	490	255	770	750	445			490		
	262	450	150	445	370	175	520	520	270	820	795	470			520		
	290	450	166	495	410	193	580	580	300		880	525			580		
	324	450	185	555	460	215	645	645	335			585			645		
	359	450	205	615	510	235	715	715	375			645			715		
R57R37 	410	450	230	690	575	270	810	810	420			730			810		
	454	450	255	765	640	295	890	890	470			810			890		
	534	450	300		750	350			550								
	603	450	340		850	395			620								
	683	450	385			450			705								
	805	450	450			530			830								
	894	450	500			585											
	1027	450	580			675											
	1164	450	655			765											
	1342	450	755			880											
R57R37 	142	450	80	240	200	94	280	280	147	440	425	250	760	600	280	840	785
	164	450	93	275	230	108	320	320	170	505	490	290	880	690	320		
	187	450	106	315	260	123	365	365	194	580	560	330		790	365		
	215	450	121	360	300	142	425	425	220	665	645	380			425		
	241	450	136	405	340	159	475	475	245	745	725	430			475		
	273	450	154	460	385	180	535	535	280	840	820	485			535		
	319	450	180	540	450	210	630	630	330			570			630		
	357	450	200	600	500	235	705	705	365			635			705		
	471	450	265	795	665	310			485			840					
	537	450	300		755	350			555								
	604	450	340		850	395			625								
	678	450	380			445			700								
	782	450	440			515			800								
	1034	450	580			680											
	1189	450	670			780											
	1399	450	790														
	1555	450	870														

m [kg]		DRM					
	s	71S12	71M12	90M12	100M12	100L12	
R57R37		36	37	46	54	57	
R57R37		36	37	46	54	57	
R57R37		37	38	47	54	57	
R57R37		37	38	47	55	58	
RF: + 3.4 kg / RM: + 15.4 kg							

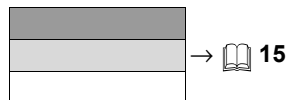

 → **15**

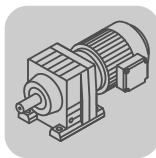


R 67

	M _a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M _{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
R67  2	4.29	270							4.6	14	13	8.0	24	19	8.8	26	25
	4.93	290	2.9	8.7	7.2	3.4	10	10	5.3	16	15	9.1	27	22	10	30	28
	5.70	310	3.3	10	8.3	3.9	12	12	6.1	18	18	11	32	25	12	35	33
	6.27	330	3.7	11	9.2	4.3	13	13	6.7	20	20	12	35	28	13	39	36
	7.36	370	4.3	13	11	5.0	15	15	7.9	24	23	14	41	32	15	45	42
	7.79	380	4.6	14	11	5.3	16	16	8.4	25	24	14	43	34	16	48	45
	8.70	440							9.3	28	27	16	48	38	18	54	50
	10.00	470	5.9	18	15	6.8	20	20	11	32	31	19	56	44	20	61	58
	11.54	500	6.8	20	17	7.9	24	24	12	37	36	21	64	51	24	71	66
	12.70	520	7.4	22	19	8.7	26	26	14	41	40	24	71	56	26	78	73
	14.91	550	8.7	26	22	10	31	31	16	48	47	28	83	65	31	92	86
	15.79	560	9.2	28	23	11	32	32	17	51	49	29	88	69	32	97	91
	17.95	590	11	32	26	12	37	37	19	58	56	33	100	79	37	110	103
	19.89	600	12	35	29	14	41	41	21	64	62	37	111	87	41	122	115
	23.44	560	14	41	34	16	48	48	25	76	73	43	130	103	48	144	135
	26.72	540	16	47	39	18	55	55	29	86	83	50	149	117	55	164	154
	28.13	540	16	49	41	19	58	58	30	91	88	52	157	124	58	173	162
R67  3	28.83	520	17	50	42	19	58	58	31	92	89	53	158	125	58	175	164
	32.27	540	19	56	47	22	65	65	34	103	100	59	177	140	65	196	184
	37.50	570	22	65	54	25	76	76	40	119	116	69	205	163	76	225	210
	39.88	580	23	69	58	27	81	81	42	127	123	73	215	173	81	240	225
	46.29	600	27	80	67	31	94	94	49	147	143	85	250	200	94	280	260
	51.56	600	30	90	75	35	104	104	55	164	159	94	280	220	104	310	290
	56.89	600	33	99	82	38	115	115	60	181	176	104	310	245	115	345	320
	61.26	600	35	106	89	41	124	124	65	195	189	112	335	265	124	370	345
	69.75	600	40	121	101	47	141	141	74	220	215	128	380	300	141	420	395
	74.17	600	43	129	107	50	150	150	79	235	225	136	405	320	150	450	420
	86.11	600	50	149	125	58	174	174	91	270	265	158	470	370	174	520	485
	95.91	600	55	166	139	65	194	194	102	305	295	176	525	415	194	580	545
	105.83	600	61	184	153	71	210	210	112	335	325	194	580	455	210	640	600
	113.94	600	66	198	165	77	230	230	121	360	350	205	625	490	230	690	645
	128.97	600	75	220	187	87	260	260	137	410	395	235	705	555	260	780	730
	137.67	600	80	235	199	93	275	275	146	435	420	250	755	595	275	830	780
	158.14	600	92	270	225	107	320	320	168	500	485	285	860	685	320	960	890
	184.07	600	107	315	265	124	370	370									
	199.81	600	116	345	285	135	400	400									

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
R67	32	31	33	42	50	53
R67	33	32	34	43	51	54
RF: + 3.2 kg / RM: + 19.0 kg						



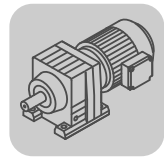

R 67R37

M_a [Nm]			DRM														
	i	M_{amax}	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
R67R37 	159	600	91	270	225	106	315	315	167	495	480	285	860	680	315	950	890
	181	600	103	310	255	121	360	360	190	565	550	325	980	775	360	1080	1010
	201	600	115	340	285	134	400	400	210	630	610	360	1090	860	400		1120
	235	600	134	400	335	157	470	470	245	735	715	425		1000	470		
	264	600	151	450	375	176	525	525	275	830	800	475		1130	525		
	310	600	177	530	440	205	620	620	320	970	940	560			620		
	359	600	205	615	510	235	715	715	375	1120	1090	645			715		
	384	600	215	655	545	255	765	765	400		1170	695			765		
	443	600	250	755	630	295	880	880	460			800			880		
R67R37 	486	600	270	820	685	320	960	960	500			860			960		
	571	600	320	960	800	375	1120	1120	590			1020			1120		
	644	600	360	1090	900	420			665			1150					
	730	600	410		1030	480			755								
	891	600	500			585			920								
	956	600	540			630			990								
	1109	600	625			730			1140								
	1379	600	775			900											
	1471	600	830			960											
	1629	600	920			1070											
R67R37 	1805	600	1010			1180											
	2094	600	1180														
	158	600	89	265	220	104	310	310	164	490	475	280	840	665	310	930	870
	176	600	99	295	245	116	345	345	182	545	530	310	940	745	345	1040	970
	200	600	113	335	280	132	395	395	205	620	600	355	1070	840	395	1180	1110
	234	600	132	395	330	154	460	460	240	725	700	415		990	460		
	261	600	147	440	365	172	515	515	270	810	785	465		1100	515		
	294	600	166	495	415	194	580	580	300	910	880	525			580		
	344	600	194	580	485	225	680	680	355	1060	1030	615			680		
	388	600	215	655	545	255	765	765	400		1160	690			765		
	438	600	245	740	615	285	860	860	450			780			860		
	495	600	275	830	695	325	970	970	510			880			970		
	574	600	320	970	810	375	1130	1130	590			1020			1130		
	646	600	360	1090	910	425			665			1150					
	750	600	420		1050	490			775								
	836	600	470		1180	550			860								
	1106	600	620			725			1140								
	1259	600	710			820											
	1432	600	800			940											
	1652	600	930			1080											
	1852	600	1040														

m [kg]		DRM					
	s	71S12	71M12	90M12	100M12	100L12	
R67R37		42	43	53	60	63	
R67R37		42	44	53	60	63	
R67R37		43	44	53	61	64	
R67R37		43	44	54	61	64	
RF: + 3.2 kg / RM: + 19.0 kg							



→ 15

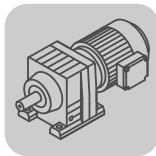


R 77

M _a [Nm]			DRM																				
i	M _{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9	2.5	7.5	6.2	2.7	8.1	7.1
 2	5.31	510							5.7	17	17	9.8	30	23	11	33	31	13	39	32	14	42	37
	5.99	540							6.4	19	19	11	33	26	12	37	34	15	44	36	16	47	42
	6.79	580	4.0	12	9.9	4.6	14	14	7.3	22	21	13	38	30	14	42	39	17	50	41	18	54	47
	7.74	610	4.5	14	11	5.3	16	16	8.3	25	24	14	43	34	16	48	45	19	57	47	20	61	54
	8.59	630	5.0	15	13	5.9	18	18	9.2	28	27	16	48	38	18	53	49	21	63	52	23	68	60
	9.64	630							10	31	30	18	54	42	20	59	56	24	71	58	25	76	67
	10.88	660							12	35	34	20	61	48	22	67	63	27	80	66	29	86	75
	12.33	690	7.2	22	18	8.4	25	25	13	40	39	23	69	54	25	76	71	30	90	75	32	97	85
	14.05	720	8.2	25	21	9.6	29	29	15	45	44	26	78	62	29	86	81	34	103	85	37	111	97
	15.60	740	9.1	27	23	11	32	32	17	50	49	29	87	69	32	96	90	38	114	94	41	123	108
	17.82	780	10	31	26	12	37	37	19	57	56	33	99	78	37	110	103	43	130	108	47	141	124
	18.80	780	11	33	28	13	39	39	20	61	59	35	105	83	39	116	108	46	138	114	50	149	130
	21.43	820	13	38	31	15	44	44	23	69	67	40	119	94	44	132	123	52	157	130	56	169	149
23.37	820	14	41	34	16	48	48	25	75	73	43	130	103	48	144	135	57	171	141	62	185	162	
 3	25.23	780							27	80	78	46	139	109	51	153	144	61	182	151	66	197	173
	29.00	820	17	50	42	20	59	59	31	92	89	53	159	126	59	176	165	70	205	173	76	225	199
	33.47	820	19	58	48	23	68	68	36	107	103	61	184	145	68	200	190	81	240	200	87	260	225
	36.83	820	21	64	53	25	75	75	39	117	114	67	200	160	75	220	205	89	265	220	96	285	250
	43.26	820	25	75	63	29	88	88	46	138	134	79	235	188	88	260	245	104	310	255	113	335	295
	45.81	820	27	80	66	31	93	93	49	146	141	84	250	199	93	275	260	110	330	270	119	355	310
	52.07	820	30	90	75	35	105	105	55	166	161	95	285	225	105	315	295	126	375	310	136	405	355
	57.68	820	33	100	83	39	117	117	61	184	178	106	315	250	117	350	325	139	415	340	150	450	390
	65.77	820	38	114	95	44	133	133	70	205	200	121	360	285	133	395	370	159	475	390	171	510	450
	77.24	820	45	134	112	52	156	156	82	245	235	142	420	335	156	465	435	186	555	460	200	600	525
	81.80	820	47	142	118	55	166	166	87	260	250	150	445	355	166	495	465	197	590	485	210	635	560
	92.97	820	54	161	134	63	188	188	99	295	285	170	510	400	188	560	525	220	670	555	240	725	635
	102.99	820	60	179	149	70	205	205	109	325	315	189	565	445	205	625	585	245	740	615	265	800	705
	121.42	820	70	210	176	82	245	245	129	385	370	220	665	525	245	735	690	290	870	725	315	940	830
	138.39	820	80	240	200	93	280	280	147	440	425	250	760	600	280	840	785	330	1000	820	360	1080	940
	145.67	820	84	250	210	98	295	295	155	460	445	265	800	630	295	880	820	350	1050	870	375	1130	990
	166.59	820	96	285	240	112	335	335	177	530	510	305	910	720	335	1010	940						
195.24	820	113	335	280	132	395	395																

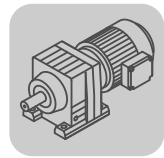
m [kg]		DRM							
	s	71S12	71M12	90M12	100M12	100L12	132S12	132M12	
R77	 2	38	40	48	56	59	74	87	
R77	 3	39	41	50	57	60	75	88	
RF: + 5.7 kg / RM: + 30.7 kg									




R 77R37

	M_a [Nm]		DRM														
	i	M_{amax}	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
R77R37 2 2	186	820	106	315	265	124	370	370	195	580	565	335	1010	795	370	1110	1040
	221	820	126	375	315	147	440	440	230	690	670	400	1200	940	440	1320	1240
	236	820	135	400	335	157	470	470	245	740	715	425	1280	1010	470	1410	1320
	276	820	158	470	390	184	550	550	285	860	840	495	1490	1180	550		1550
	310	820	177	530	440	205	620	620	320	970	940	560		1320	620		
	365	820	205	625	520	240	730	730	380	1140	1110	660		1560	730		
	422	820	240	720	600	280	840	840	440	1320	1280	760			840		
	451	820	255	770	640	300	900	900	470	1410	1370	810			900		
	520	820	295	890	740	345	1040	1040	545	1630	1580	940			1040		
R77R37 2 3	571	820	320	960	800	375	1120	1120	590			1020			1120		
	671	820	375	1130	940	440	1320	1320	690			1200			1320		
	757	820	425	1280	1060	495	1490	1490	780			1350			1490		
	858	820	480	1450	1210	565			880			1530					
	915	820	515	1550	1290	600			940			1630					
	1047	820	590		1470	685			1080								
	1124	820	630		1580	740			1160								
	1303	820	735			850			1340								
	1430	820	800			940			1480								
	1620	820	910			1060											
	1728	820	970			1130											
	1977	820	1110			1300											
	2121	820	1190			1390											
	2460	820	1380			1620											
	2890	820	1630														
R77R37 3 2	149	820	84	250	210	98	290	290	154	460	445	265	795	630	290	880	820
	169	820	95	285	235	111	330	330	175	525	505	300	900	715	330	1000	930
	197	820	111	330	275	130	385	385	200	610	590	350	1050	830	385	1160	1090
	224	820	127	375	315	148	440	440	230	695	670	400	1200	940	440	1320	1240
	260	820	147	440	365	171	510	510	265	800	780	465	1390	1100	510	1540	1440
	289	820	163	485	405	190	570	570	295	890	870	515	1550	1220	570		1600
	327	820	185	550	460	215	645	645	335	1010	980	580		1380	645		
	373	820	210	630	525	245	735	735	385	1150	1120	665		1580	735		
	436	820	245	735	615	285	860	860	450	1350	1310	775			860		
	488	820	275	820	685	320	960	960	505	1510	1470	870			960		
	560	820	315	940	790	365	1100	1100	575			1000			1100		
	646	820	360	1090	910	425	1270	1270	665			1150			1270		
	731	820	410	1230	1030	480	1440	1440	755			1300			1440		
	821	820	460	1390	1150	540	1620	1620	850			1460			1620		
	940	820	530	1590	1320	615			970								
	1084	820	610		1530	710			1120								
	1218	820	685			800			1260								
	1394	820	785			910			1440								
	1580	820	890			1040			1630								
	1822	820	1020			1200											
	2070	820	1160			1360											
	2345	820	1320			1540											

Table continued on next page. Weight table on next page.



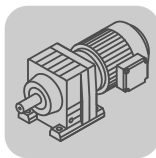
M _a [Nm]			DRM														
i	M _{amax} [Nm]	S1	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
R77R37	2671	820	1490														

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
R77R37	2 2	47	48	57	65	68
R77R37	2 3	47	48	58	65	68
R77R37	3 2	48	49	58	66	69
R77R37	3 3	48	49	59	66	69
RF: + 5.7 kg / RM: + 30.7 kg						

R 87

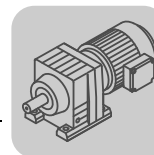
M _a [Nm]			DRM																	
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9	2.5	7.5	6.2	2.7	8.1	7.1
R87 2	7.13	1070				7.7	23	22	13	40	31	15	44	41	17	52	43	19	56	49
	8.22	1160				8.8	26	26	15	46	36	17	51	47	20	60	50	22	65	57
	9.14	1210				9.8	29	29	17	51	40	19	56	53	22	67	55	24	72	63
	13.33	1280				14	43	42	25	74	59	27	82	77	33	98	81	35	105	92
	15.35	1340				16	49	48	28	85	67	31	94	88	37	112	93	40	121	106
	17.08	1390				18	55	53	32	95	75	35	105	98	42	125	103	45	135	118
	19.10	1440	13	39	39	21	62	60	35	106	84	39	117	110	47	140	116	50	151	132
	21.51	1500	15	44	44	23	69	67	40	120	94	44	132	124	52	157	130	57	170	149
	23.40	1550	16	48	48	25	75	73	43	130	103	48	144	135	57	171	142	62	185	162
	27.84	1550	19	57	57	30	90	87	52	155	122	57	171	160	68	200	168	73	220	193
31.40	1550	21	64	64	34	101	98	58	175	138	64	193	181	77	225	190	83	245	215	
34.40	1500	24	71	71	37	111	107	64	191	151	71	210	198	84	250	205	91	270	235	
R87 3	27.88	1500				30	89	86	51	153	121	56	169	159	67	200	167	73	215	191
	32.66	1550				35	104	101	60	180	142	66	198	186	79	235	195	85	255	220
	36.84	1550				39	117	114	68	200	160	75	220	205	89	265	220	96	285	250
	41.74	1550	28	85	85	44	133	129	76	225	181	85	250	235	101	300	245	109	325	285
	47.58	1550	32	96	96	50	151	147	87	260	205	96	285	270	115	340	280	124	370	325
	52.82	1550	36	107	107	56	168	163	97	290	225	107	320	300	127	380	315	138	410	360
	60.35	1550	41	122	122	64	192	186	111	330	260	122	365	340	146	435	360	157	470	410
	63.68	1550	43	129	129	68	200	197	117	350	275	129	385	360	154	460	380	166	495	435
	72.57	1550	49	147	147	77	230	220	133	395	310	147	440	410	175	520	430	189	565	495
	81.92	1550	55	166	166	87	260	250	150	450	355	166	495	465	198	590	485	210	635	560
	93.38	1550	63	189	189	99	295	285	171	510	405	189	565	530	225	675	555	240	725	635
	103.65	1550	70	205	205	110	325	315	190	565	445	205	625	585	245	745	615	265	800	705
	118.43	1550	80	235	235	126	375	365	215	650	510	235	715	670	285	850	705	305	920	810
	124.97	1550	84	250	250	133	395	385	225	685	540	250	755	710	300	900	745	325	970	850
	142.41	1550	96	285	285	151	450	435	260	780	615	285	860	810	340	1030	850	370	1110	970
	155.34	1550	105	310	310	165	490	475	280	850	670	310	940	880	370	1120	920	400	1210	1060
	181.77	1550	123	365	365	193	575	560	330	990	785	365	1100	1030	435	1310	1080	470	1410	1240
	205.71	1550	139	415	415	215	650	630	375	1130	890	415	1240	1170	495	1480	1230	535	1600	1400
216.54	1550	146	435	435	225	685	665	395	1190	930	435	1310	1230	520	1560	1290	560	1690	1480	
246.54	1550	166	495	495	260	780	760	450	1350	1060	495	1490	1400							

m [kg]		DRM						
	s	71M12	90M12	100M12	100L12	132S12	132M12	
R87	2	66	75	82	85	100	115	
R87	3	67	76	84	87	100	115	
RF: + 7.1 kg / RM: + 36.8 kg								


R 87R57

	M_a [Nm]		DRM														
	i	M_{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
R87R57 2 2	195	1550	111	330	275	130	390	390	200	610	590	350	1050	830	390	1170	1090
	232	1550	133	395	330	155	460	460	240	725	705	420	1260	990	460	1390	1300
	256	1550	146	435	365	171	510	510	265	800	780	460	1390	1090	510	1530	1430
	300	1550	172	510	425	200	600	600	310	940	910	540	1620	1280	600	1800	1680
	361	1550	205	615	515	240	720	720	375	1130	1100	650	1960	1540	720	2160	2020
	400	1550	225	685	570	265	800	800	415	1250	1210	720	2170	1710	800	2400	2240
	472	1550	265	800	670	310	940	940	490	1480	1430	850	2560	2020	940	2830	2650
	538	1550	305	920	765	355	1070	1070	560	1690	1640	970	2920	2300	1070		3020
R87R57 2 3	580	1550	325	980	810	380	1140	1140	600	1800	1740	1030		2450	1140		
	649	1550	365	1090	910	425	1280	1280	670	2010	1950	1160		2740	1280		
	754	1550	425	1270	1060	495	1490	1490	780	2340	2270	1340			1490		
	802	1550	450	1350	1130	525	1580	1580	830	2490	2410	1430			1580		
	931	1550	525	1570	1310	610	1840	1840	960	2890	2800	1660			1840		
	1037	1550	585	1750	1460	680	2050	2050	1070			1850			2050		
	1145	1550	645	1940	1610	750	2260	2260	1180			2040			2260		
	1232	1550	695	2080	1730	810	2430	2430	1270			2200			2430		
	1395	1550	785	2360	1960	910	2750	2750	1440			2490			2750		
	1489	1550	840	2520	2100	980	2940	2940	1540			2660			2940		
	1733	1550	970	2930	2440	1140			1790			3090					
	1930	1550	1090		2720	1270			1990								
	2129	1550	1200		3000	1400			2200								
	2595	1550	1460			1710			2680								
	2770	1550	1560			1820			2860								
	3182	1550	1790			2090											
	3703	1550	2090			2440											
	4020	1550	2270			2640											
R87R57 3 2	209	1550							215	645	625	370	1120	880	410	1230	1160
	236	1550	133	395	330	156	465	465	240	730	710	420	1260	990	465	1390	1310
	268	1550	151	450	375	177	525	525	275	830	800	475	1430	1130	525	1580	1480
	305	1550	172	515	430	200	600	600	315	940	910	545	1630	1290	600	1800	1690
	352	1550	199	595	495	230	695	695	360	1090	1060	625	1880	1490	695	2080	1950
	398	1550	220	670	560	260	785	785	410	1230	1190	710	2130	1680	785	2360	2210
	456	1550	255	770	640	300	900	900	470	1410	1370	810	2440	1930	900	2700	2530
	525	1550	295	880	740	345	1030	1030	540	1630	1580	930	2810	2220	1030		2910
	599	1550	335	1010	840	390	1180	1180	620	1860	1800	1070		2530	1180		
	685	1550	385	1160	960	450	1350	1350	705	2120	2060	1220		2900	1350		
	776	1550	435	1310	1090	510	1530	1530	800	2410	2330	1380			1530		
	885	1550	495	1490	1240	580	1740	1740	910	2740	2660	1580			1740		
	1008	1550	565	1700	1420	660	1990	1990	1040		3030	1800			1990		
	1143	1550	645	1930	1610	750	2250	2250	1180			2040			2250		
	1303	1550	735	2200	1840	850	2570	2570	1340			2330			2570		
	1524	1550	860	2580	2150	1000	3010	3010	1570			2720			3010		
	1737	1550	980	2940	2450	1140			1790								

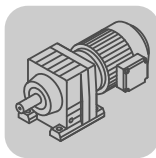
Table continued on next page. Weight table on next page.



M _a [Nm]			71S12			71M12			DRM 90M12			100M12			100L12		
	i	M _{amax} [Nm]	S1 0.6	S3 1.8	S1 /V 1.5	S1 0.7	S3 2.1	S1 /V 2.1	S1 1.1	S3 3.3	S1 /V 3.2	S1 1.9	S3 5.7	S1 /V 4.5	S1 2.1	S3 6.3	S1 /V 5.9
R87R57  3  3	881	1550	490	1470	1220	570	1720	1720	900	2700	2620	1550			1720		
	994	1550	550	1660	1380	645	1940	1940	1010	3050	2950	1750			1940		
	1961	1550	1090		2730	1270			2000								
	2209	1550	1230		3080	1430			2260								
	2518	1550	1400			1630			2570								
	2873	1550	1600			1870			2930								
	3233	1550	1800			2100											
	3744	1550	2080			2430											
	4206	1550	2340			2730											
	4831	1550	2690														
	5449	1550	3040														

m [kg]		71S12		71M12		DRM 90M12		100M12		100L12	
	s										
R87R57	 2  2		82		83		93		100		105
R87R57	 2  3		83		84		94		100		105
R87R57	 3  2		83		85		95		100		105
R87R57	 3  3		84		86		95		105		105
RF: + 7.1 kg / RM: + 36.8 kg											



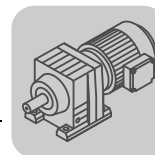

R 97

M_a [Nm]			DRM																	
	i	M_{amax} [Nm]	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9	2.5	7.5	6.2	2.7	8.1	7.1
R97  2	9.29	2030				10.0	30	29	17	52	41	19	57	54	23	68	56	24	73	64
	16.17	2400				17	52	51	30	90	71	33	99	93	39	118	98	43	128	112
	18.24	2500				20	59	57	34	101	80	37	112	105	45	134	110	48	144	126
	20.14	2610				22	65	63	37	112	88	41	124	116	49	147	122	53	159	140
	22.37	2720	15	46	46	24	72	70	41	124	98	46	138	129	55	164	135	59	177	155
	25.03	2830	17	51	51	27	81	78	46	139	110	51	154	144	61	183	151	66	198	173
	27.19	2560	19	56	56	29	88	85	50	151	119	56	167	157	66	199	165	72	210	188
	32.05	2560	22	66	66	34	103	100	59	178	141	66	197	185	78	230	194	84	250	220
R97  3	37.13	3000				39	118	115	68	200	161	75	225	210	90	265	220	97	290	250
	42.78	3000				45	136	132	78	235	186	87	255	240	103	305	255	111	330	290
	47.58	3000				50	151	147	87	260	205	96	285	270	115	340	280	124	370	325
	53.21	3000	36	108	108	56	169	164	98	290	230	108	320	300	128	380	315	139	415	360
	59.92	3000	40	121	121	64	191	185	110	325	260	121	360	340	144	430	355	156	465	410
	65.21	3000	44	132	132	69	205	200	119	355	280	132	395	370	157	470	385	170	505	445
	72.17	3000				77	225	220	132	395	310	146	435	410	174	520	430	188	560	490
	83.15	3000				88	260	255	152	455	360	168	505	470	200	600	495	215	645	565
	92.48	3000				98	290	285	169	505	400	187	560	525	220	665	550	240	720	630
	103.44	3000	70	205	205	110	325	315	190	565	445	205	625	585	245	745	615	265	800	705
	116.48	3000	79	235	235	124	370	355	210	640	505	235	705	660	280	840	695	300	900	795
	126.75	3000	86	255	255	134	400	390	230	695	550	255	770	720	305	910	755	330	990	860
	150.78	3000	102	305	305	160	475	465	275	820	650	305	910	850	360	1090	900	390	1170	1030
	170.02	3000	115	340	340	180	540	520	310	930	735	340	1030	960	405	1220	1010	440	1320	1160
	186.30	3000	126	375	375	198	590	570	340	1020	800	375	1130	1060	445	1340	1110	485	1450	1270
	216.28	3000	146	435	435	225	685	665	395	1180	930	435	1310	1230	520	1560	1290	560	1680	1480
	241.25	3000	163	485	485	255	765	740	440	1320	1040	485	1460	1370	580	1740	1440	625	1880	1650
	255.71	3000	173	515	515	270	810	785	465	1400	1100	515	1550	1450	615	1840	1520	665	1990	1750
	289.74	3000	196	585	585	305	920	890	530	1590	1250	585	1760	1640						

m [kg]		DRM					
	s	71M12	90M12	100M12	100L12	132S12	132M12
R97	2	105	115	120	125	140	150
R97	3	110	115	125	125	140	155
RF: + 17.2 kg / RM: + 68.5 kg							



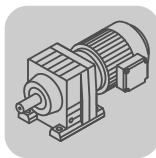
→ 15



R 97R57

	M _a [Nm]		DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
R97R57 2 2	227	3000	130	385	320	151	450	450	235	710	690	410	1230	970	450	1360	1270
	270	3000	154	460	385	180	540	540	280	840	820	485	1460	1150	540	1620	1510
	297	3000	170	505	420	198	590	590	310	930	900	535	1610	1270	590	1780	1660
	349	3000	200	595	495	230	695	695	365	1090	1060	630	1890	1490	695	2090	1960
	370	3000	210	630	525	245	740	740	385	1160	1120	665	2000	1580	740	2220	2080
	420	3000	240	720	600	280	840	840	440	1320	1280	760	2280	1800	840	2520	2360
	466	3000	265	795	665	310	930	930	485	1460	1420	840	2530	1990	930	2790	2610
	549	3000	310	940	780	365	1090	1090	575	1720	1670	990	2980	2350	1090	3290	3080
	625	3000	355	1070	890	415	1250	1250	655	1960	1900	1130	3390	2670	1250	3750	3510
R97R57 2 3	755	3000	425	1270	1060	495	1490	1490	780	2340	2270	1350	4050	3190	1490	4470	4190
	878	3000	495	1480	1230	575	1730	1730	900	2720	2640	1570	4710	3710	1730	5200	4870
	934	3000	525	1580	1310	615	1840	1840	960	2900	2810	1670	5010	3950	1840	5530	5180
	1084	3000	610	1830	1530	710	2140	2140	1120	3360	3260	1930	5810	4590	2140		
	1207	3000	680	2040	1700	795	2380	2380	1240	3740	3630	2150		5110	2380		
	1434	3000	810	2430	2020	940	2830	2830	1480	4450	4320	2560			2830		
	1623	3000	910	2750	2290	1060	3200	3200	1680	5040	4880	2900			3200		
	1733	3000	970	2930	2440	1140	3420	3420	1790	5380	5220	3090			3420		
	2016	3000	1130	3410	2840	1320	3980	3980	2080			3600			3980		
	2245	3000	1260	3800	3170	1470	4430	4430	2320			4010			4430		
	2668	3000	1500	4520	3760	1750	5270	5270	2760			4770			5270		
	3019	3000	1700	5110	4260	1980	5960	5960	3120			5400			5960		
	3702	3000	2090		5220	2430			3830								
	4309	3000	2430			2830											
	4678	3000	2640			3080											
R97R57 3 2	209	3000							215	645	625	370	1120	880	410	1230	1160
	234	3000							240	725	700	415	1250	990	460	1380	1290
	249	3000	141	420	350	164	490	490	255	770	750	445	1330	1050	490	1470	1380
	296	3000	167	500	415	195	585	585	305	910	890	525	1580	1250	585	1750	1640
	336	3000	190	565	470	220	660	660	345	1040	1010	600	1800	1420	660	1990	1860
	379	3000	210	640	535	245	745	745	390	1170	1140	675	2030	1600	745	2240	2100
	431	3000	240	730	605	280	850	850	445	1330	1290	770	2310	1820	850	2550	2390
	484	3000	270	820	680	315	950	950	500	1500	1450	860	2590	2050	950	2870	2680
	560	3000	315	940	790	365	1100	1100	575	1730	1680	1000	3000	2370	1100	3320	3110
	632	3000	355	1070	890	415	1240	1240	650	1960	1900	1130	3390	2670	1240	3740	3510
	737	3000	415	1240	1040	485	1450	1450	760	2280	2220	1310	3950	3120	1450	4370	4090
	824	3000	465	1390	1160	540	1620	1620	850	2550	2480	1470	4420	3490	1620	4880	4570
	938	3000	525	1580	1320	615	1850	1850	970	2910	2820	1670	5030	3970	1850	5560	5210
	1069	3000	600	1810	1500	700	2110	2110	1100	3320	3220	1910	5730	4520	2110		5930
	1228	3000	690	2080	1730	800	2420	2420	1270	3810	3690	2190		5200	2420		
	1396	3000	785	2360	1970	910	2750	2750	1440	4330	4200	2490		5910	2750		
	1583	3000	890	2680	2230	1040	3120	3120	1630	4910	4760	2830			3120		
	1823	3000	1020	3080	2570	1200	3600	3600	1880	5660	5490	3260			3600		
	2078	3000	1170	3520	2930	1360	4100	4100	2150			3710			4100		
	2311	3000	1300	3910	3260	1520	4560	4560	2390			4130			4560		
	2722	3000	1530	4610	3840	1790	5380	5380	2810			4860			5380		
	3065	3000	1730	5190	4320	2010			3170			5480					

Table continued on next page. Weight table on next page.



R..DRM – 60 Hz

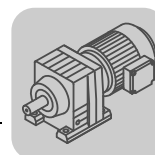
R..DRM

M _a [Nm]			DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
R97R57  3 	3481	3000	1940	5820	4850	2260			3560								
	4004	3000	2230		5580	2600			4090								
	4559	3000	2540			2960			4660								
	5161	3000	2880			3360			5280								
	5931	3000	3300			3860											
	6708	3000	3740			4360											
	7692	3000	4290			5000											
	8706	3000	4850			5660											
10030	3000	5590															

m [kg]		DRM														
	s	71S12			71M12			90M12			100M12			100L12		
R97R57	 2 	120			120			130			140			140		
R97R57	 2 	120			120			130			140			140		
R97R57	 3 	125			125			135			140			145		
R97R57	 3 	125			125			135			140			145		
RF: + 17.2 kg / RM: + 68.5 kg																



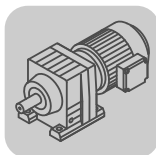
→ 15



R 107R77

	M _a [Nm]		DRM			71S12			71M12			90M12			100M12			100L12		
	i	M _{amax} [Nm]	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9			
R107R77 2 2	172	4300	98	295	245	115	340	340	180	540	520	310	930	735	340	1030	960			
	193	4300							200	605	585	345	1040	820	385	1150	1080			
	220	4300	126	375	310	147	440	440	230	690	670	395	1190	940	440	1320	1230			
	256	4300	146	435	365	171	510	510	265	800	780	460	1390	1090	510	1530	1430			
	284	4300	162	485	405	189	565	565	295	890	860	510	1540	1210	565	1700	1590			
	325	4300	186	555	460	215	650	650	340	1020	990	585	1760	1390	650	1950	1820			
	377	4300	215	645	535	250	750	750	395	1180	1140	680	2040	1610	750	2260	2110			
	426	4300	240	730	605	280	850	850	445	1330	1290	770	2310	1820	850	2550	2390			
	469	4300	265	800	670	310	930	930	490	1470	1430	840	2540	2010	930	2810	2630			
R107R77 2 3	528	4300	295	890	745	345	1040	1040	545	1640	1590	940	2830	2230	1040	3130	2930			
	626	4300	350	1060	880	410	1230	1230	645	1940	1880	1110	3350	2650	1230	3710	3470			
	717	4300	405	1210	1010	470	1410	1410	740	2220	2160	1280	3840	3030	1410	4250	3980			
	815	4300	460	1380	1150	535	1610	1610	840	2530	2450	1450	4370	3450	1610	4830	4520			
	919	4300	515	1550	1290	605	1810	1810	950	2850	2760	1640	4930	3890	1810	5450	5100			
	1055	4300	595	1780	1480	695	2080	2080	1090	3270	3170	1880	5660	4460	2080	6250	5850			
	1209	4300	680	2040	1700	795	2390	2390	1250	3750	3640	2160	6480	5120	2390	7170	6710			
	1407	4300	790	2380	1980	920	2780	2780	1450	4370	4230	2510	7550	5960	2780	8340	7810			
	1550	4300	870	2620	2180	1020	3060	3060	1600	4810	4660	2770	8310	6560	3060					
	1693	4300	950	2860	2390	1110	3340	3340	1750	5250	5100	3020		7170	3340					
	2067	4300	1160	3500	2910	1360	4080	4080	2140	6420	6220	3690			4080					
	2280	4300	1280	3860	3210	1500	4500	4500	2360	7080	6860	4070			4500					
	2653	4300	1490	4490	3740	1740	5240	5240	2740	8240	7990	4740			5240					
	3034	4300	1710	5140	4280	1990	5990	5990	3140			5420			5990					
	3343	4300	1880	5660	4720	2200	6600	6600	3460			5970			6600					
	3918	4300	2210	6630	5530	2580	7740	7740												
R107R77 3 2	187	4300							194	580	560	330	1000	790	365	1100	1030			
	214	4300							220	660	640	380	1140	900	420	1260	1180			
	253	4300							260	785	760	450	1350	1070	500	1500	1400			
	285	4300							295	880	850	505	1520	1200	560	1690	1580			
	323	4300	182	545	455	210	635	635	330	1000	970	575	1730	1360	635	1910	1790			
	369	4300	205	625	520	240	725	725	380	1140	1110	660	1980	1560	725	2180	2040			
	417	4300							430	1290	1250	745	2230	1760	820	2470	2310			
	492	4300							505	1520	1480	880	2640	2080	970	2910	2730			
	544	4300							560	1690	1630	970	2910	2300	1070	3220	3020			
	614	4300							635	1900	1840	1090	3290	2600	1210	3640	3410			
	822	4300	460	1390	1160	540	1620	1620	850	2550	2470	1470	4410	3480	1620	4870	4560			
	939	4300	530	1590	1320	615	1850	1850	970	2910	2820	1670	5030	3970	1850	5560	5210			
	1104	4300	620	1870	1550	725	2180	2180	1140	3420	3320	1970	5920	4670	2180	6540	6130			
	1226	4300	690	2070	1730	800	2420	2420	1260	3800	3690	2190	6570	5190	2420	7270	6800			
	1400	4300	790	2370	1970	920	2760	2760	1440	4340	4210	2500	7510	5930	2760	8300	7770			
	1599	4300	900	2700	2250	1050	3160	3160	1650	4960	4810	2860	8580	6770	3160					
	1827	4300	1030	3090	2570	1200	3610	3610	1890	5670	5500	3260		7730	3610					
	1987	4300	1120	3360	2800	1300	3920	3920	2050	6170	5980	3550		8410	3920					

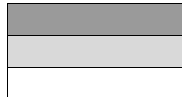
Table continued on next page. Weight table on next page.



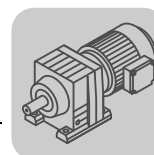
R..DRM – 60 Hz R..DRM

M _a [Nm]			DRM			71S12			71M12			90M12			100M12			100L12		
	i	M _{amax} [Nm]	S1 0.6	S3 1.8	S1 /V 1.5	S1 0.7	S3 2.1	S1 /V 2.1	S1 1.1	S3 3.3	S1 /V 3.2	S1 1.9	S3 5.7	S1 /V 4.5	S1 2.1	S3 6.3	S1 /V 5.9			
R107R77 	2339	4300							2390	7170	6960	4130			4560					
	2688	4300	1500	4500	3750	1750	5250	5250	2750	8250	8000	4750			5250					
	3039	4300	1690	5080	4230	1970	5930	5930	3100			5370			5930					
	3432	4300	1910	5740	4780	2230	6700	6700	3510			6060			6700					
	3896	4300	2170	6520	5430	2530	7600	7600	3980			6880			7600					
	4435	4300	2470	7420	6180	2880			4530			7830								
	5168	4300	2880		7210	3360			5280											
	5914	4300	3300		8250	3850			6050											
	6743	4300	3760			4390			6890											
	7583	4300	4230			4930			7750											
	8618	4300	4800			5610														
	9547	4300	5320			6210														
	11256	4300	6280			7320														
	12829	4300	7150			8350														
	14936	4300	8330																	

m [kg]		DRM				
	s	71S12	71M12	90M12	100M12	100L12
R107R77	 2  2	185	190	195	205	205
R107R77	 2  3	190	190	200	205	210
R107R77	 3  2	195	195	205	210	215
R107R77	 3  3	195	195	205	210	215
RF: + 5.9 kg / RM: + 93.9 kg						

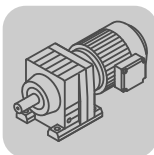


→ 15



M _a [Nm]			DRM					
	i	M _{amax} [Nm]	132S12		S1 /V 6.2	S1 2.7	132M12	
			S1	S3			S3	S1 /V 7.1
			2.5	7.5			8.1	7.1
R107R77 2 2	172	4300	405	1220	1010	440	1320	1160
	193	4300	455	1370	1140	495	1480	1300
	220	4300	520	1570	1290	565	1690	1480
	256	4300	605	1820	1510	655	1970	1730
	284	4300	675	2020	1670	730	2190	1920
	325	4300	770	2320	1920	830	2500	2190
	377	4300	890	2690	2220	960	2900	2550
	426	4300	1010	3040	2510	1090	3280	2880
	469	4300	1110	3350	2770	1200	3610	3170
R107R77 2 3	528	4300	1240	3720	3080	1340	4020	3520
	626	4300	1470	4410	3650	1590	4770	4180
	717	4300	1680	5060	4180	1820	5460	4790
	815	4300	1910	5750	4750	2070	6210	5440
	919	4300	2160	6480	5360	2330	7000	6140
	1055	4300	2480	7440	6150	2680	8040	7050
	1209	4300	2840	8530	7050	3070		8080
	1407	4300	3310		8210	3570		
	1550	4300	3640			3930		
	1693	4300	3980			4300		
	2067	4300	4860			5250		
	2280	4300	5360			5790		
	2653	4300	6240			6740		
	3034	4300						
	3343	4300						
	3918	4300						
R107R77 3 2	187	4300	440	1320	1090	475	1420	1240
	214	4300	500	1510	1240	540	1630	1430
	253	4300	595	1780	1470	640	1920	1690
	285	4300	670	2010	1660	720	2170	1900
	323	4300	760	2280	1880	820	2460	2150
	369	4300	860	2600	2150	930	2810	2460
	417	4300	980	2940	2430	1050	3170	2780
	492	4300	1150	3470	2870	1250	3750	3280
	544	4300	1280	3840	3170	1380	4140	3630
	614	4300	1440	4330	3580	1560	4680	4100
	822	4300	1930	5800	4790	2080	6260	5490
	939	4300	2200	6620	5480	2380	7160	6270
	1104	4300	2590	7790	6440	2800	8410	7370
	1226	4300	2880		7150	3110		8190
	1400	4300	3290		8170	3550		
	1599	4300	3760			4060		
	1827	4300	4290			4640		
	1987	4300	4670			5050		

Table continued on next page. Weight table on next page.



R..DRM – 60 Hz

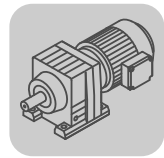
R..DRM

M_a [Nm]			DRM					
	i	M_{amax}	S1	132S12 S3	S1 /V	S1	132M12 S3	S1 /V
		[Nm]	2.5	7.5	6.2	2.7	8.1	7.1
R107R77 	2339	4300	5430			5870		
	2688	4300	6250			6750		
	3039	4300	7060			7630		
	3432	4300	7980					
	3896	4300						
	4435	4300						
	5168	4300						
	5914	4300						
	6743	4300						
	7583	4300						
	8618	4300						
	9547	4300						
	11256	4300						
	12829	4300						
	14936	4300						

m [kg]		DRM	
	s	132S12	132M12
R107R77	 2  2	220	235
R107R77	 2  3	225	235
R107R77	 3  2	230	240
R107R77	 3  3	230	245
RF: + 5.9 kg / RM: + 93.9 kg			



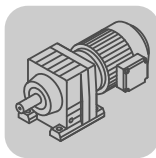
→ 15



R 137R77

	M _a [Nm]		DRM			71S12			71M12			90M12			100M12			100L12		
	i	M _{amax} [Nm]	S1 0.6	S3 1.8	S1 /V 1.5	S1 0.7	S3 2.1	S1 /V 2.1	S1 1.1	S3 3.3	S1 /V 3.2	S1 1.9	S3 5.7	S1 /V 4.5	S1 2.1	S3 6.3	S1 /V 5.9	S1 2.1	S3 6.3	S1 /V 5.9
R137R77 2 2	297	8000	170	505	420	198	590	590	310	930	900	535	1610	1270	590	1780	1660			
	339	8000	194	580	480	225	675	675	355	1060	1030	610	1840	1450	675	2030	1900			
	376	8000	210	640	535	250	750	750	390	1180	1140	680	2040	1610	750	2250	2110			
	453	8000	255	775	645	300	900	900	470	1420	1380	820	2460	1940	900	2710	2540			
	517	8000	295	880	735	340	1030	1030	540	1620	1570	930	2800	2210	1030	3100	2900			
	564	8000	320	960	800	375	1120	1120	590	1770	1710	1020	3060	2410	1120	3380	3170			
R137R77 2 3	609	8000							630	1890	1830	1080	3260	2570	1200	3610	3380			
	699	8000	390	1180	980	460	1380	1380	720	2170	2100	1250	3750	2960	1380	4140	3880			
	888	8000	500	1500	1250	585	1750	1750	910	2750	2670	1580	4760	3760	1750	5260	4930			
	1043	8000	585	1760	1470	685	2060	2060	1080	3240	3140	1860	5590	4410	2060	6180	5790			
	1105	8000	620	1870	1560	725	2180	2180	1140	3430	3320	1970	5920	4680	2180	6550	6130			
	1256	8000	705	2120	1770	820	2480	2480	1300	3900	3780	2240	6730	5320	2480	7440	6970			
	1391	8000	785	2350	1960	910	2740	2740	1440	4320	4190	2480	7460	5890	2740	8240	7720			
	1586	8000	890	2680	2230	1040	3130	3130	1640	4920	4770	2830	8510	6710	3130	9400	8800			
	1863	8000	1050	3150	2630	1220	3680	3680	1920	5780	5610	3330	9990	7890	3680	11000	10300			
	2242	8000	1260	3790	3160	1470	4430	4430	2320	6960	6750	4010	12000	9490	4430	13200	12400			
	2484	8000	1400	4200	3500	1630	4910	4910	2570	7710	7480	4440	13300	10500	4910	14700	13700			
	2929	8000	1650	4960	4130	1930	5790	5790	3030	9090	8820	5230	15700	12400	5790					
	3338	8000	1880	5650	4710	2190	6590	6590	3450	10300	10000	5970		14100	6590					
	3514	8000	1980	5950	4960	2310	6940	6940	3630	10900	10500	6280		14800	6940					
	4018	8000	2260	6800	5670	2640	7940	7940	4160	12400	12100	7180			7940					
	4709	8000	2650	7970	6640	3100	9300	9300												
R137R77 3 2	175	8000							181	540	525	310	930	740	345	1030	970			
	197	8000							200	610	590	350	1050	830	385	1160	1090			
	223	8000	126	375	310	147	440	440	230	690	670	395	1190	940	440	1320	1230			
	255	8000	144	430	360	168	500	500	260	790	765	455	1360	1080	500	1510	1410			
	291	8000	164	490	410	192	575	575	300	900	870	520	1560	1230	575	1720	1610			
	323	8000	182	545	455	210	635	635	330	1000	970	575	1730	1360	635	1910	1790			
	381	8000	215	645	535	250	750	750	390	1180	1140	680	2040	1610	750	2250	2110			
	428	8000							440	1320	1280	765	2290	1810	840	2530	2370			
	490	8000							505	1520	1470	870	2620	2070	960	2900	2720			
	560	8000	315	940	790	365	1100	1100	575	1730	1680	1000	3000	2370	1100	3320	3110			
	629	8000							650	1950	1890	1120	3370	2660	1240	3730	3490			
	730	8000	410	1230	1030	480	1440	1440	755	2260	2190	1300	3910	3090	1440	4320	4050			
	831	8000	465	1400	1170	545	1640	1640	860	2580	2500	1480	4450	3520	1640	4920	4610			
	951	8000	535	1610	1340	625	1880	1880	980	2950	2860	1700	5100	4020	1880	5640	5280			
	1090	8000	615	1840	1530	715	2150	2150	1120	3380	3280	1940	5840	4610	2150	6460	6050			
	1226	8000	690	2070	1730	800	2420	2420	1260	3800	3690	2190	6570	5190	2420	7270	6800			
	1397	8000	785	2360	1970	920	2760	2760	1440	4340	4200	2490	7490	5910	2760	8280	7750			
	1598	8000	900	2700	2250	1050	3150	3150	1650	4960	4810	2850	8570	6760	3150	9470	8870			
	1839	8000	1030	3110	2590	1210	3630	3630	1900	5710	5540	3280	9860	7790	3630	10900	10200			
	2073	8000	1170	3510	2920	1360	4090	4090	2140	6440	6240	3700	11100	8780	4090	12200	11500			
	2412	8000	1360	4080	3400	1580	4760	4760	2490	7490	7260	4310	12900	10200	4760	14300	13300			
	2658	8000	1500	4500	3750	1750	5250	5250	2750	8250	8000	4750	14200	11200	5250	15700	14700			

Table continued on next page. Weight table on next page.

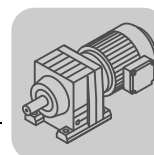


	M_a [Nm]		DRM			71S12			71M12			90M12			100M12			100L12		
	i	M_{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9			
R137R77 	2993	8000	1670	5010	4170	1940	5840	5840	3060	9180	8900	5280	15800	12500	5840					
	3454	8000	1920	5780	4810	2240	6740	6740	3530	10600	10200	6100		14400	6740					
	3928	8000	2190	6570	5480	2550	7670	7670	4010	12000	11600	6940			7670					
	4464	8000	2490	7470	6220	2900	8710	8710	4560	13700	13200	7880			8710					
	5116	8000	2850	8560	7130	3330	9990	9990	5230	15700	15200	9040			9990					
	5834	8000	3250	9760	8130	3790	11300	11300	5960			10300			11300					
	6559	8000	3660	10900	9150	4270	12800	12800	6710			11500			12800					
	7479	8000	4170	12500	10400	4860	14600	14600	7650			13200			14600					
	8784	8000	4900	14700	12200	5710			8980			15500								
	10573	8000	5900		14700	6880			10800											
	11712	8000	6530			7620			11900											
	12921	8000	7210			8410			13200											
	14777	8000	8240			9620			15100											
	16566	8000	9240			10700														
	18945	8000	10500			12300														
	22203	8000	12300			14400														

m [kg]		DRM				
	s	71S12	71M12	90M12	100M12	100L12
R137R77	 2  2	265	265	275	280	285
R137R77	 2  3	265	265	275	285	285
R137R77	 3  2	275	275	285	290	295
R137R77	 3  3	275	275	285	295	295
RF: + 23.3 kg / RM: + 134.4 kg						

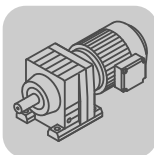


→ 15



M _a [Nm]			DRM					
	i	M _{amax} [Nm]	S1	132S12 S3	S1 /V	S1	132M12 S3	S1 /V
			2.5	7.5	6.2	2.7	8.1	7.1
R137R77 2 2	297	8000	705	2120	1750	760	2290	2000
	339	8000	800	2420	2000	870	2610	2290
	376	8000	890	2680	2220	960	2900	2540
	453	8000	1070	3230	2670	1160	3490	3060
	517	8000	1230	3690	3050	1330	3990	3490
	564	8000	1340	4030	3330	1450	4350	3810
R137R77 2 3	609	8000	1430	4290	3550	1540	4640	4070
	699	8000	1640	4930	4070	1770	5330	4670
	888	8000	2080	6260	5180	2250	6770	5930
	1043	8000	2450	7360	6080	2650	7950	6970
	1105	8000	2600	7800	6440	2800	8420	7380
	1256	8000	2950	8860	7330	3190	9570	8390
	1391	8000	3270	9820	8110	3530	10600	9290
	1586	8000	3730	11100	9250	4030	12000	10600
	1863	8000	4380	13100	10800	4730	14200	12400
	2242	8000	5270	15800	13000	5690		14900
	2484	8000	5840		14400	6310		
	2929	8000	6890			7440		
	3338	8000	7850			8480		
	3514	8000	8270			8930		
	4018	8000						
	4709	8000						
R137R77 3 2	175	8000	410	1230	1020	440	1330	1160
	197	8000	460	1390	1140	500	1500	1310
	223	8000	520	1570	1300	565	1700	1490
	255	8000	600	1800	1480	645	1940	1700
	291	8000	680	2050	1690	735	2210	1940
	323	8000	760	2280	1880	820	2460	2150
	381	8000	890	2690	2220	960	2900	2540
	428	8000	1000	3020	2490	1080	3260	2860
	490	8000	1150	3450	2860	1240	3730	3270
	560	8000	1310	3950	3260	1420	4270	3740
	629	8000	1480	4440	3670	1590	4790	4200
	730	8000	1710	5150	4260	1850	5560	4870
	831	8000	1950	5860	4850	2110	6330	5550
	951	8000	2230	6710	5550	2410	7250	6350
	1090	8000	2560	7690	6360	2770	8310	7280
	1226	8000	2880	8650	7150	3110	9340	8190
	1397	8000	3280	9860	8150	3550	10600	9330
	1598	8000	3760	11200	9320	4060	12100	10600
	1839	8000	4320	12900	10700	4670	14000	12200
	2073	8000	4870	14600	12000	5260	15800	13800
	2412	8000	5670		14000	6130		
	2658	8000	6250		15500	6750		

Table continued on next page. Weight table on next page.



R..DRM – 60 Hz

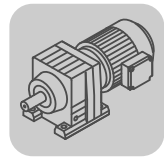
R..DRM

	M_a [Nm]		DRM					
	i	M_{amax} [Nm]	132S12		S1 /V 6.2	132M12		S1 /V 7.1
			S1 2.5	S3 7.5		S1 2.7	S3 8.1	
R137R77 	2993	8000	6950			7510		
	3454	8000	8030			8670		
	3928	8000	9130			9860		
	4464	8000	10300			11200		
	5116	8000	11800			12800		
	5834	8000	13500			14600		
	6559	8000	15200					
	7479	8000						
	8784	8000						
	10573	8000						
	11712	8000						
	12921	8000						
	14777	8000						
	16566	8000						
	18945	8000						
	22203	8000						

	m [kg]		DRM	
	s		132S12	132M12
R137R77	 2  2		300	315
R137R77	 2  3		300	315
R137R77	 3  2		310	325
R137R77	 3  3		310	325
RF: + 23.3 kg / RM: + 134.4 kg				



→  **15**

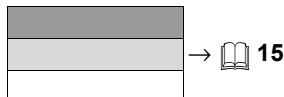


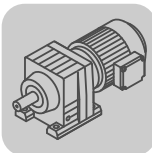
R 147R77

M _a [Nm]			DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
R147R77  3  2	415	13000	230	700	585	270	820	820	425	1280	1250	740	2220	1750	820	2460	2300
	489	13000	275	820	690	320	960	960	505	1510	1470	870	2620	2070	960	2900	2710
	558	13000	315	940	785	365	1100	1100	575	1730	1680	990	2990	2360	1100	3300	3090
	619	13000	345	1040	870	405	1220	1220	640	1920	1860	1100	3320	2620	1220	3670	3430
	695	13000							715	2150	2090	1240	3720	2940	1370	4120	3860
	784	13000							810	2430	2360	1400	4200	3320	1540	4640	4350
	889	13000	500	1500	1250	585	1750	1750	920	2760	2670	1590	4770	3760	1750	5270	4930
	1029	13000							1060	3190	3090	1840	5520	4350	2030	6100	5710
	1166	13000	655	1970	1640	765	2300	2300	1200	3620	3510	2080	6250	4930	2300	6910	6470
	1329	13000	750	2250	1870	870	2620	2620	1370	4120	4000	2370	7130	5630	2620	7880	7380
	1536	13000	860	2600	2160	1010	3030	3030	1590	4770	4620	2740	8240	6500	3030	9100	8530
	1705	13000	960	2880	2400	1120	3370	3370	1760	5290	5130	3040	9140	7220	3370	10100	9470
	1951	13000	1100	3300	2750	1280	3850	3850	2020	6060	5870	3480	10400	8260	3850	11500	10800
	2211	13000	1240	3740	3120	1450	4370	4370	2280	6860	6660	3950	11800	9360	4370	13100	12200
	2555	13000	1440	4320	3600	1680	5050	5050	2640	7930	7690	4570	13700	10800	5050	15100	14100
R147R77  3  3	2898	13000	1610	4850	4040	1880	5660	5660	2960	8890	8620	5120	15300	12100	5660	16900	15900
	3302	13000	1840	5520	4600	2140	6440	6440	3370	10100	9820	5830	17500	13800	6440	19300	18100
	3754	13000	2090	6280	5230	2440	7330	7330	3840	11500	11100	6630	19900	15700	7330	21900	20600
	4325	13000	2410	7240	6030	2810	8440	8440	4420	13200	12800	7640	22900	18100	8440	25300	23700
	4926	13000	2740	8240	6870	3200	9620	9620	5030	15100	14600	8700		20600	9620		
	5568	13000	3100	9320	7760	3620	10800	10800	5690	17000	16500	9830		23300	10800		
	6447	13000	3590	10700	8990	4190	12500	12500	6590	19700	19100	11300			12500		
	7307	13000	4070	12200	10100	4750	14200	14200	7470	22400	21700	12900			14200		
	8443	13000	4710	14100	11700	5490	16400	16400	8630	25900	25100	14900			16400		
	9743	13000	5430	16300	13500	6340	19000	19000	9960			17200			19000		
	11143	13000	6210	18600	15500	7250	21700	21700	11400			19600			21700		
	12344	13000	6880	20600	17200	8030	24100	24100	12600			21800			24100		
	14075	13000	7850	23500	19600	9160											
	15923	13000	8880		22200	10300			16200								
	18210	13000	10100		25400	11800			18600								
	21342	13000	11900			13800											
	23401	13000	13000			15200											

m [kg]		DRM					
	s	71S12	71M12	90M12	100M12	100L12	
R147R77	 3  2	400	400	410	415	420	
R147R77	 3  3	400	400	410	420	420	

RF: + 8.3 kg / RM: + 175.7 kg

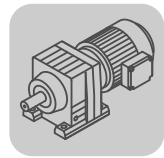




M _a [Nm]			DRM					
	i	M _{amax} [Nm]	S1 2.5	132S12 S3 7.5	S1 /V 6.2	S1 2.7	132M12 S3 8.1	S1 /V 7.1
R147R77  	415	13000	970	2930	2420	1050	3160	2770
	489	13000	1150	3450	2850	1240	3720	3260
	558	13000	1310	3930	3250	1410	4250	3720
	619	13000	1450	4370	3610	1570	4720	4130
	695	13000	1630	4900	4050	1760	5290	4640
	784	13000	1840	5530	4570	1990	5970	5240
	889	13000	2090	6270	5180	2250	6770	5940
	1029	13000	2420	7260	6000	2610	7840	6870
	1166	13000	2740	8230	6800	2960	8890	7790
	1329	13000	3120	9380	7750	3370	10100	8880
	1536	13000	3610	10800	8960	3900	11700	10200
	1705	13000	4010	12000	9950	4330	13000	11300
	1951	13000	4590	13700	11300	4950	14800	13000
	2211	13000	5200	15600	12900	5620	16800	14700
2555	13000	6010	18000	14900	6490	19400	17000	
R147R77  	2898	13000	6730	20200	16700	7270	21800	19100
	3302	13000	7670	23000	19000	8290	24800	21800
	3754	13000	8720		21600	9420		24700
	4325	13000	10000		24900	10800		
	4926	13000	11400			12300		
	5568	13000	12900			13900		
	6447	13000	14900			16100		
	7307	13000	16900			18300		
	8443	13000	19600			21200		
	9743	13000	22600			24400		
	11143	13000	25900					
	12344	13000						
	14075	13000						
	15923	13000						
	18210	13000						
	21342	13000						
	23401	13000						

m [kg]		DRM	
	s	132S12	132M12
R147R77	 	435	450
R147R77	 	435	450
RF: + 8.3 kg / RM: + 175.7 kg			

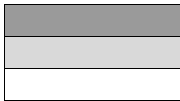
→  **15**



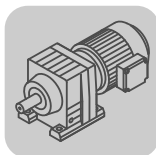
R 147R87

M _a [Nm]			DRM																	
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9	2.5	7.5	6.2	2.7	8.1	7.1
R147R87	326	13000				335	1010	980	580	1740	1380	640	1930	1810	765	2300	1900	820	2480	2170
 	368	13000				380	1140	1100	655	1970	1550	725	2180	2040	860	2590	2140	930	2800	2450
	426	13000				440	1320	1280	760	2280	1800	840	2520	2360	1000	3000	2480	1080	3240	2840

m [kg]		DRM					
	s	71M12	90M12	100M12	100L12	132S12	132M12
R147R87	 	430	440	445	450	465	475
RF: + 8.3 kg / RM: + 175.7 kg							



→  15

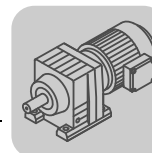

R 167R97

	M_a [Nm]		DRM											
	i	M_{amax}	71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
R167R97 	760	18000	500	1500	1500	785	2360	2280	1350	4070	3210	1500	4500	4220
	861	18000	565	1700	1700	890	2670	2590	1540	4620	3640	1700	5100	4780
	999	18000	655	1970	1970	1030	3100	3000	1780	5360	4230	1970	5920	5540
	1123	18000	740	2220	2220	1160	3480	3380	2000	6020	4750	2220	6660	6230
	1279	18000	840	2520	2520	1320	3970	3850	2280	6860	5410	2520	7580	7100
	1438	18000	940	2840	2840	1480	4460	4330	2570	7710	6090	2840	8520	7980
	1670	18000				1720	5180	5030	2980	8960	7070	3300	9900	9270
	1877	18000				1940	5830	5650	3350	10000	7950	3710	11100	10400
	2085	18000	1370	4120	4120	2150	6470	6280	3720	11100	8830	4120	12300	11500
	2333	18000	1530	4610	4610	2410	7240	7020	4170	12500	9880	4610	13800	12900
R167R97 	2657	18000	1750	5250	5250	2750	8250	8000	4750	14200	11200	5250	15700	14700
	3692	18000				3770	11300	10900	6520	19500	15400	7210	21600	20200
	4129	18000	2680	8060	8060	4220	12600	12200	7290	21800	17200	8060	24100	22600
	4650	18000	3020	9080	9080	4750	14200	13800	8210	24600	19400	9080	27200	25500
	5407	18000	3520	10500	10500	5530	16500	16000	9550	28600	22600	10500	31600	29600
	6077	18000	3950	11800	11800	6210	18600	18000	10700	32200	25400	11800	35600	33300
	6894	18000				7050	21100	20500	12100		28800	13400		
	7749	18000				7920	23700	23000	13600		32400	15100		
	9631	18000	6270	18800	18800	9850	29500	28600	17000			18800		
	10509	18000	6840	20500	20500	10700	32200	31200	18500			20500		
	11812	18000	7690	23000	23000	12000		35100	20800			23000		
	14051	18000	9140	27400	27400	14300			24800			27400		
	15446	18000	10000	30100	30100	15800			27200			30100		
	17361	18000	11300	33900	33900	17700			30600			33900		
	20002	18000	13000			20400			35300					
	22482	18000	14600			23000								
	27001	18000	17500			27600								

	m [kg]		DRM			
	s		71M12	90M12	100M12	100L12
R167R97			720	730	730	740
R167R97			720	730	740	740
RF: + 6.4 kg / RM: + 201.8 kg						



→ 15



M _a [Nm]			DRM					
	i	M _{amax} [Nm]	S1 2.5	132S12 S3 7.5	S1 /V 6.2	S1 2.7	132M12 S3 8.1	S1 /V 7.1
R167R97  ³  ²	760	18000	1780	5360	4430	1930	5790	5070
	861	18000	2020	6070	5020	2180	6560	5750
	999	18000	2350	7050	5830	2530	7610	6670
	1123	18000	2640	7920	6550	2850	8560	7500
	1279	18000	3010	9030	7460	3250	9750	8540
	1438	18000	3380	10100	8390	3650	10900	9610
	1670	18000	3930	11700	9740	4240	12700	11100
	1877	18000	4410	13200	10900	4770	14300	12500
	2085	18000	4900	14700	12100	5290	15800	13900
	2333	18000	5490	16400	13600	5930	17700	15500
	2657	18000	6250	18700	15500	6750	20200	17700
R167R97  ³  ³	3692	18000	8580	25700	21200	9270	27800	24300
	4129	18000	9600	28800	23800	10300	31100	27200
	4650	18000	10800	32400	26800	11600	35000	30700
	5407	18000	12500		31100	13500		35700
	6077	18000	14100		35000	15200		
	6894	18000	16000			17300		
	7749	18000	18000			19400		
	9631	18000	22300			24100		
	10509	18000	24400			26300		
	11812	18000	27400			29600		
	14051	18000	32600			35200		
	15446	18000	35900					
	17361	18000						
	20002	18000						
	22482	18000						
27001	18000							

m [kg]		DRM	
	s	132S12	132M12
R167R97	 ³  ²	750	760
R167R97	 ³  ³	750	770
RF: + 6.4 kg / RM: + 201.8 kg			





10 F..DRM – 60 Hz

10.1 F..DRM

F 27

	M_a [Nm]		DRM														
	i	M_{amax}	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
FA27 	4.16	87	2.4	7.3	6.1	2.8	8.5	8.5	4.5	13	13	7.7	23	18	8.5	26	24
	4.93	96	2.9	8.7	7.2	3.4	10	10	5.3	16	15	9.1	27	22	10	30	28
	5.27	100	3.1	9.3	7.7	3.6	11	11	5.7	17	16	9.8	29	23	11	32	30
	6.17	109	3.6	11	9.0	4.2	13	13	6.6	20	19	11	34	27	13	38	36
	6.91	114	4.0	12	10	4.7	14	14	7.4	22	22	13	38	30	14	42	40
	8.13	123	4.8	14	12	5.6	17	17	8.7	26	25	15	45	36	17	50	47
	9.40	130	5.5	17	14	6.4	19	19	10	30	29	17	52	41	19	58	54
	9.88	130	5.8	17	14	6.8	20	20	11	32	31	18	55	43	20	61	57
	10.55	130	6.2	19	15	7.2	22	22	11	34	33	20	59	46	22	65	61
	12.35	130	7.2	22	18	8.4	25	25	13	40	39	23	69	54	25	76	71
	13.84	130	8.1	24	20	9.5	28	28	15	45	43	26	77	61	28	85	80
	16.28	130	9.5	29	24	11	33	33	17	52	51	30	91	72	33	100	94
	18.84	130	11	33	28	13	39	39	20	61	59	35	105	83	39	116	109
	20.15	130	12	35	30	14	41	41	22	65	63	37	112	89	41	124	116
	23.25	130	14	41	34	16	48	48	25	75	73	43	129	102	48	143	134
FA27 	27.18	130	16	48	40	19	56	56									
	29.56	130	17	52	43	20	61	61									
	33.83	130	20	59	49	23	69	69	36	108	104	62	186	147	69	205	192
	38.33	130	22	67	55	26	78	78	41	122	118	70	210	166	78	230	215
	40.89	130	24	71	59	28	83	83	43	130	126	75	220	177	83	245	230
	46.78	130	27	81	68	32	95	95	50	149	144	86	255	200	95		
	50.19	130	29	87	73	34	102	102	53	160	155	92		215	102		
	56.62	130	33	98	82	38	115	115	60	180	175	104		245	115		
	63.86	130	37	111	92	43	129	129	68	200	197	117			129		
	72.37	130	42	126	105	49	147	147	77	230	220	133			147		
	77.21	130	45	134	112	52	156	156	82	245	235	141			156		
	88.32	130	51	153	128	60	179	179	94			162			179		
	94.76	130	55	165	137	64	192	192	101			174			192		
	109.90	130	64	191	159	74	220	220	117			200			220		
	129.09	130	75	220	187	87											
	140.74	130	81	240	200	95											

m [kg]		DRM					
FA27	s	71S12	71M12	90M12	100M12	100L12	
FA27		12	13	23	30	33	
FA27		13	14	23	30	34	
FAF: + 0.7 kg / F: + 0.5 kg / FF: + 1.3 kg							





F 27R17

M _a [Nm]			DRM					
	i	M _{amax}	S1	71S12 S3	S1 /V	S1	71M12 S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1
FA27R17 	96	130	55	165	137	64	192	192
	109	130	62	187	156	73	215	215
	124	130	71	210	177	83	245	245
	142	130	81	240	200	95		
	186	130	106			124		
	211	130	121			141		
	236	130	135			157		
	266	130	152			177		
	302	130	173			200		
	342	130	196			225		
FA27R17 	397	130	225					
	130	130	73	220	184	86	255	255
	153	130	86	255	215	101		
	172	130	97		240	113		
	221	130	125			146		
	251	130	142			165		
	288	130	163			190		
	326	130	184			210		
	379	130	210			245		
	427	130	240					

m [kg]		DRM	
	s	71S12	71M12
FA27R17		15	16
FA27R17		15	16
FA27R17		15	16
FA27R17		15	17
FAF: + 0.7 kg / F: + 0.5 kg / FF: + 1.3 kg			

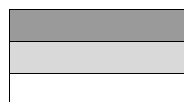
	→  15


F 37

	M_a [Nm]		DRM														
	i	M_{amax}	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
FA37 	3.77	105	2.2	6.6	5.5	2.6	7.7	7.7	4.0	12	12	7.0	21	17	7.7	23	22
	4.22	110	2.5	7.4	6.2	2.9	8.7	8.7	4.5	14	13	7.8	23	19	8.7	26	24
	4.90	120	2.9	8.6	7.2	3.3	10	10	5.3	16	15	9.1	27	22	10	30	28
	5.21	125	3.1	9.2	7.6	3.6	11	11	5.6	17	16	9.7	29	23	11	32	30
	6.05	135	3.5	11	8.9	4.1	12	12	6.5	19	19	11	34	27	12	37	35
	6.74	140	3.9	12	9.9	4.6	14	14	7.2	22	21	13	38	30	14	41	39
	7.44	145	4.4	13	11	5.1	15	15	8.0	24	23	14	41	33	15	46	43
	8.01	170	4.7	14	12	5.5	16	16	8.6	26	25	15	45	35	16	49	46
	8.97	175	5.3	16	13	6.1	18	18	9.6	29	28	17	50	39	18	55	52
	10.42	185	6.1	18	15	7.1	21	21	11	34	33	19	58	46	21	64	60
	11.08	190	6.5	19	16	7.6	23	23	12	36	35	21	62	49	23	68	64
	12.87	200	7.5	23	19	8.8	26	26	14	41	40	24	72	57	26	79	74
	14.33	200	8.4	25	21	9.8	29	29	15	46	45	27	80	63	29	88	83
	15.81	200	9.3	28	23	11	32	32	17	51	49	29	88	69	32	97	91
	17.03	200	10.0	30	25	12	35	35	18	55	53	32	95	75	35	105	98
	19.27	200	11	34	28	13	40	40	21	62	60	36	107	85	40	119	111
	20.57	200	12	36	30	14	42	42	22	66	64	38	114	90	42	126	118
	23.63	200	14	42	35	16	48	48	25	76	74	44	131	104	48	145	136
FA37 	23.88	200	14	41	35	16	48	48	25	76	74	44	131	104	48	145	136
	28.09	200	16	49	41	19	57	57	30	89	87	51	154	122	57	171	160
	31.69	200	18	55	46	21	64	64	34	101	98	58	174	138	64	193	180
	35.91	200	21	62	52	24	73	73	38	114	111	66	197	156	73	215	200
	38.31	200	22	67	55	26	78	78	41	122	118	70	210	166	78	230	215
	43.83	200	25	76	63	30	89	89	46	139	135	80	240	190	89	265	245
	47.02	200	27	82	68	32	95	95	50	150	145	86	255	200	95	285	265
	51.70	200	30	90	75	35	105	105	55	165	160	95	280	220	105	310	290
	54.54	200	32	95	79	37	110	110	58	174	168	100	295	235	110	330	310
	58.32	200	34	101	84	39	118	118	62	186	180	107	320	250	118	350	330
	66.09	200	38	115	96	45	134	134	70	210	200	121	360	285	134		375
	70.50	200	41	122	102	48	143	143	75	220	215	129	385	305	143		
	80.65	200	47	140	117	54	163	163	86	255	245	148		350	163		
	86.53	200	50	150	125	58	175	175	92	275	265	159		375	175		
	100.36	200	58	174	145	68	200	200	106	315	305	184			200		
	117.88	200	68	200	171	80	235	235									
	128.51	200	74	220	186	87	260	260									

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
FA37		19	20	29	36	39	
FA37		19	20	29	37	40	

FAF: + 1.5 kg / F: + 0.5 kg / FF: + 2.3 kg

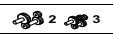
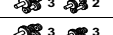


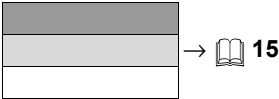
→ 15



F 37R17

M _a [Nm]			DRM					
	i	M _{amax}	S1	71S12	S1	S1	71M12	S1
		[Nm]	0.6	S3	/V	0.7	S3	/V
FA37R17 	87	200	50	149	124	58	174	174
	98	200	56	168	140	65	196	196
	118	200	67	200	169	79	235	235
	129	200	74	220	184	86	255	255
	145	200	83	245	205	97	290	290
	167	200	95	285	235	111	330	330
	186	200	106	315	265	124	370	370
	219	200	125	375	310	146		
	250	200	143		355	167		
	285	200	163			190		
FA37R17 	326	200	186			215		
	364	200	205			235		
	411	200	230			270		
	466	200	260			305		
	544	200	305			355		
	616	200	345					
FA37R17 	698	200	390					
	91	200	51	154	129	60	180	180
	108	200	61	183	153	71	210	210
	121	200	68	205	171	80	235	235
	127	200	72	215	179	84	250	250
	147	200	83	245	205	97	290	290
	168	200	95	280	235	111	330	330
	195	200	110	330	275	129	385	385
	221	200	125	370	310	146		
	242	200	137		340	159		
	278	200	157		390	183		
	322	200	182			210		
	365	200	205			240		
	412	200	230			270		
	477	200	265			310		
	538	200	300			350		
	617	200	345					
	707	200	395					

m [kg]		DRM	
	s	71S12	71M12
FA37R17		21	22
FA37R17		21	23
FA37R17		21	23
FA37R17		22	23
FAF: + 1.5 kg / F: + 0.5 kg / FF: + 2.3 kg			




F 47

	M_a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M_{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
FA47 	4.99	320	2.9	8.8	7.3	3.4	10	10	5.4	16	16	9.3	28	22	10	31	29
	5.76	340	3.4	10	8.4	3.9	12	12	6.2	19	18	11	32	25	12	35	33
	6.34	350	3.7	11	9.3	4.3	13	13	6.8	20	20	12	35	28	13	39	37
	7.44	380	4.4	13	11	5.1	15	15	8.0	24	23	14	41	33	15	46	43
	7.88	380	4.6	14	12	5.4	16	16	8.5	25	25	15	44	35	16	48	45
	8.96	330	5.2	16	13	6.1	18	18	9.6	29	28	17	50	39	18	55	52
	10.97	400	6.4	19	16	7.5	22	22	12	35	34	20	61	48	22	67	63
	12.66	400	7.4	22	19	8.7	26	26	14	41	40	23	70	56	26	78	73
	13.93	400	8.2	24	20	9.5	29	29	15	45	44	26	78	61	29	86	80
	16.36	400	9.6	29	24	11	34	34	18	53	51	30	91	72	34	101	94
	17.33	400	10	30	25	12	36	36	19	56	54	32	96	76	36	107	100
	19.70	400	12	35	29	13	40	40	21	63	62	37	110	87	40	121	113
	21.82	400	13	38	32	15	45	45	23	70	68	40	121	96	45	134	126
	25.72	400	15	45	38	18	53	53	28	83	80	48	143	113	53	158	148
	29.32	400	17	52	43	20	60	60	31	94	92	54	163	129	60	180	169
FA47 	30.86	400	18	54	45	21	63	63	33	99	96	57	172	136	63	190	178
	28.88	400	17	50	42	19	58	58	31	92	89	53	159	125	58	175	164
	34.29	400	20	60	50	23	69	69	36	109	106	63	189	149	69	205	195
	36.61	400	21	64	53	25	74	74	39	117	113	67	200	159	74	220	205
	42.86	400	25	74	62	29	87	87	45	136	132	79	235	186	87	260	240
	48.00	400	28	83	69	32	97	97	51	153	148	88	260	205	97	290	270
	56.49	400	33	98	82	38	114	114	60	180	174	104	310	245	114	340	320
	65.36	400	38	113	95	44	132	132	69	205	200	120	355	280	132	395	370
	68.09	400	39	118	99	46	138	138	72	215	210	125	370	295	138	410	385
	79.72	400	46	138	115	54	161	161	85	250	245	146	435	345	161	480	450
	89.29	400	52	155	129	60	181	181	95	280	275	164	490	385	181	540	505
	105.09	400	61	182	152	71	210	210	111	330	320	193	575	455	210	635	595
	121.57	400	70	210	176	82	245	245	129	385	375	220	665	525	245	735	690
	130.07	400	75	225	188	88	260	260	138	410	400	235	715	560	260	790	740
	150.06	400	87	260	215	101	300	300	159	475	460	270		650	300		
	175.38	400	101	300	250	118	355	355									
	190.76	400	110	330	275	129	385	385									

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
FA47		23	24	33	41	44
FA47		24	25	34	41	44
FAF: + 2.7 kg / F: + 0.8 kg / FF: + 3.9 kg						



→ 15



F 47R17

	M _a [Nm]		DRM					
	i	M _{amax} [Nm]	71S12		S1 /V	S1	71M12	
			S1 0.6	S3 1.8			S3 2.1	S1 /V 2.1
FA47R17 	131	400	75	220	187	87	260	260
	149	400	85	255	210	99	295	295
	178	400	102	305	250	119	355	355
	190	400	109	325	270	127	380	380
	217	400	124	370	310	145	430	430
	253	400	145	430	360	169	505	505
	295	400	169	505	420	197	590	590
	334	400	191	570	475	220	665	665
	381	400	215	650	540	250	760	760
	427	400	240	730	610	280		
	489	400	275		695	325		
	524	400	295		745	345		
FA47R17 	619	400	345			405		
	706	400	395			465		
	822	400	460			540		
	931	400	525			610		
	1061	400	595			695		
	1192	400	670			785		
	1363	400	765					
FA47R17 	130	400	73	220	184	86	255	255
	147	400	83	245	205	97	290	290
	175	400	99	295	245	115	345	345
	193	400	109	325	270	127	380	380
	218	400	123	365	305	144	430	430
	249	400	141	420	350	164	490	490
	288	400	163	485	405	190	565	565
	324	400	183	545	455	210	640	640
	370	400	205	625	520	240	730	730
	419	400	235	710	590	275		
	475	400	265		670	310		
	543	400	305		765	355		
	622	400	350			405		
	700	400	395			460		
	809	400	455			530		
	918	400	515			600		
	1049	400	590			690		
	1203	400	675			790		
	1364	400	770					

10

m [kg]			DRM	
	s		71S12	71M12
FA47R17			25	27
FA47R17			26	27
FA47R17			26	27
FA47R17			26	28
FAF: + 2.7 kg / F: + 0.8 kg / FF: + 3.9 kg				



→ 15


F 57

	M _a [Nm]		DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1 0.6	S3 1.8	S1 /V 1.5	S1 0.7	S3 2.1	S1 /V 2.1	S1 1.1	S3 3.3	S1 /V 3.2	S1 1.9	S3 5.7	S1 /V 4.5	S1 2.1	S3 6.3	S1 /V 5.9
FA57  2	5.18	415	3.0	9.1	7.6	3.5	11	11	5.6	17	16	9.6	29	23	11	32	30
	5.98	420	3.5	11	8.8	4.1	12	12	6.4	19	19	11	33	26	12	37	34
	6.58	420	3.9	12	9.6	4.5	13	13	7.1	21	21	12	37	29	13	40	38
	7.73	420	4.5	14	11	5.3	16	16	8.3	25	24	14	43	34	16	48	45
	8.19	420	4.8	14	12	5.6	17	17	8.8	26	26	15	46	36	17	50	47
	9.31	420	5.5	16	14	6.4	19	19	10.0	30	29	17	52	41	19	57	54
	10.64	600	6.2	19	16	7.3	22	22	11	34	33	20	59	47	22	65	61
	12.29	600	7.2	22	18	8.4	25	25	13	40	38	23	68	54	25	76	71
	13.52	600	7.9	24	20	9.2	28	28	15	44	42	25	75	59	28	83	78
	15.88	600	9.3	28	23	11	33	33	17	51	50	29	88	70	33	98	91
	16.81	600	9.8	30	25	11	34	34	18	54	53	31	94	74	34	103	97
	19.11	600	11	34	28	13	39	39	21	62	60	35	106	84	39	118	110
	21.17	600	12	37	31	14	43	43	23	68	66	39	118	93	43	130	122
	24.96	575	15	44	37	17	51	51	27	80	78	46	139	110	51	153	144
	28.45	535	17	50	42	19	58	58	31	92	89	53	158	125	58	175	164
	29.94	545	18	53	44	20	61	61	32	96	94	56	167	132	61	184	172
	34.24	500	20	60	50	23	70	70	37	110	107	64	191	150	70	210	197
	40.13	290	24	71	59	27	82	82									
FA57  3	30.15	590	17	52	44	20	61	61	32	96	93	55	166	131	61	183	172
	35.79	600	21	62	52	24	72	72	38	114	110	66	197	155	72	215	200
	38.21	600	22	66	55	26	77	77	41	122	118	70	210	166	77	230	215
	44.73	600	26	78	65	30	91	91	47	142	138	82	245	194	91	270	250
	50.10	600	29	87	72	34	101	101	53	159	155	92	275	215	101	300	285
	58.97	600	34	102	85	40	119	119	63	188	182	108	320	255	119	355	335
	68.22	600	39	118	99	46	138	138	72	215	210	125	375	295	138	410	385
	72.98	600	42	127	106	49	148	148	77	230	225	134	400	315	148	440	415
	83.46	600	48	145	121	56	169	169	89	265	255	153	455	360	169	505	470
	93.47	600	54	162	135	63	189	189	99	295	285	171	510	405	189	565	530
	110.01	600	64	191	159	74	220	220	117	350	335	200	600	475	220	665	625
	127.27	600	74	220	184	86	255	255	135	405	390	230	695	550	255	770	720
	136.16	600	79	235	197	92	275	275	144	430	420	245	745	590	275	820	770
	157.09	600	91	270	225	106	315	315	167	495	480	285	860	680	315	950	890
	183.60	600	106	315	265	124	370	370									
199.70	600	116	345	285	135	400	400										

m [kg]		DRM									
	s	71S12		71M12		90M12		100M12		100L12	
FA57		30		31		41		48		52	
FA57		31		32		42		49		52	
FAF: + 5.5 kg / F: + 0.2 kg / FF: + 6.6 kg											



→ 15



F 57R37

	M _a [Nm]		DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
FA57R37 2 2	134	600	77	225	192	89	265	265	140	420	405	240	725	570	265	800	750
	152	600	87	260	215	101	300	300	159	475	460	275	820	650	300	910	850
	170	600	97	290	240	113	340	340	178	530	515	305	920	725	340	1020	950
	200	600	114	340	285	133	400	400	205	625	605	360	1080	850	400		1120
	226	600	129	385	320	151	450	450	235	710	685	405		960	450		
	262	600	150	445	370	175	520	520	270	820	795	470		1120	520		
	298	600	170	510	425	199	595	595	310	930	900	535			595		
	330	600	189	565	470	220	660	660	345	1030	1000	595			660		
	382	600	215	655	545	250	760	760	400		1160	690			760		
	426	600	240	730	605	280	850	850	445			770			850		
FA57R37 2 3	483	600	270	810	680	315	950	950	500			860			950		
	549	600	310	930	775	360	1080	1080	565			980			1080		
	658	600	370	1110	920	430			680			1170					
	749	600	420		1050	490			775								
	856	600	480			560			880								
	949	600	535			625			980								
	1066	600	600			700			1100								
	1243	600	700			810											
	1422	600	800			930											
	1617	600	910			1060											
FA57R37 3 2	1791	600	1010			1180											
	2012	600	1130														
	155	600	88	260	215	102	305	305	161	480	465	275	830	655	305	910	860
	181	600	102	305	255	119	355	355	187	560	545	320	970	765	355	1070	1000
	201	600	114	340	280	132	395	395	205	620	605	355	1070	850	395	1190	1110
	255	600	144	430	360	168	500	500	260	790	765	455		1080	500		
	338	600	191	570	475	220	665	665	350	1050	1010	600			665		
	386	600	215	650	545	250	760	760	395	1190	1160	690			760		
	452	600	255	765	635	295	890	890	465			800			890		
	506	600	285	850	710	330	1000	1000	520			900			1000		
	558	600	315	940	785	365	1100	1100	575			990			1100		
	646	600	360	1090	910	425			665			1150					
	738	600	415		1040	485			760								
	851	600	480			560			880								
FA57R37 3 3	967	600	545			635			1000								
	1106	600	620			725			1140								
	1238	600	690			800											
	1439	600	800			930											
	1623	600	900			1050											
	1840	600	1020			1190											
	2131	600	1180														

	m [kg]		DRM				
	s		71S12	71M12	90M12	100M12	100L12
FA57R37	2 2		41	42	51	59	62
FA57R37	2 3		41	42	51	59	62
FA57R37	3 2		41	43	52	59	62
FA57R37	3 3		42	43	52	60	63
FAF: + 5.5 kg / F: + 0.2 kg / FF: + 6.6 kg							



→ 15


F 67

M_a [Nm]			DRM														
	i	M_{amax}	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
FA67 	3.97	500							4.3	13	12	7.4	22	17	8.1	24	23
	4.66	560							5.0	15	15	8.6	26	20	9.6	29	27
	5.25	590							5.6	17	16	9.7	29	23	11	32	30
	5.95	610	3.5	10	8.7	4.1	12	12	6.4	19	19	11	33	26	12	37	34
	6.78	620	4.0	12	9.9	4.6	14	14	7.3	22	21	13	38	30	14	42	39
	7.53	610	4.4	13	11	5.1	15	15	8.1	24	24	14	42	33	15	46	43
	8.60	570	5.0	15	13	5.9	18	18	9.2	28	27	16	48	38	18	53	50
	9.08	530	5.3	16	13	6.2	19	19	9.7	29	28	17	51	40	19	56	52
	9.66	820							10	31	30	18	54	42	20	59	56
	11.31	820							12	36	35	21	63	50	23	70	65
	12.76	820							14	41	40	24	71	56	26	78	73
	14.46	820	8.5	25	21	9.9	30	30	16	47	45	27	80	64	30	89	83
	16.48	820	9.7	29	24	11	34	34	18	53	51	31	92	72	34	101	95
	18.29	820	11	32	27	12	37	37	20	59	57	34	102	80	37	112	105
	20.90	820	12	37	31	14	43	43	22	67	65	39	116	92	43	129	120
	22.05	820	13	39	32	15	45	45	24	71	69	41	123	97	45	136	127
	25.13	820	15	44	37	17	52	52	27	81	78	47	140	110	52	155	145
	27.41	820	16	48	40	19	56	56	29	88	86	51	153	120	56	169	158
	32.08	820	19	56	47	22	66	66	34	103	100	59	178	141	66	197	185
	36.30	820	21	64	53	25	74	74	39	117	113	67	200	159	74	220	205
FA67 	34.01	740	20	59	49	23	69	69	36	108	105	62	187	148	69	205	194
	39.26	780	23	68	57	27	80	80	42	125	121	72	215	170	80	235	220
	43.20	820	25	75	62	29	87	87	46	137	133	79	235	187	87	260	245
	50.74	820	29	88	73	34	103	103	54	161	157	93	275	220	103	305	285
	53.73	820	31	93	78	36	109	109	57	171	166	98	295	230	109	325	305
	61.07	820	35	106	88	41	124	124	65	194	188	112	335	265	124	370	345
	67.65	820	39	117	98	46	137	137	72	215	205	124	370	290	137	410	380
	79.76	820	46	138	115	54	162	162	85	250	245	146	435	345	162	480	450
	90.59	820	52	157	131	61	183	183	96	285	275	166	495	390	183	550	515
	95.94	820	56	167	139	65	194	194	102	305	295	176	525	415	194	580	545
	109.04	820	63	189	158	74	220	220	116	345	335	200	595	470	220	660	620
	120.79	820	70	205	175	82	240	240	128	380	370	220	660	520	240	730	685
	142.40	820	82	245	205	96	285	285	151	450	435	260	780	615	285	860	810
	162.31	820	94	280	230	110	325	325	172	515	500	295	890	700	325	980	920
	170.85	820	99	295	245	115	345	345	181	540	525	310	930	740	345	1030	970
	195.39	820	113	335	280	132	395	395	205	620	600	355	1070	840	395	1180	1110
	228.99	820	133	395	330	155	460	460									

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
FA67	32	33	35	44	52	55
FA67	33	34	36	46	53	56
FAF: + 6.3 kg / F: + 2.8 kg / FF: + 8.9 kg						



→ 15



F 67R37

	M _a [Nm]		DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
FA67R37 2 2	176	820	101	300	250	117	350	350	184	550	535	315	950	750	350	1050	980
	200	820	114	340	285	133	400	400	205	625	605	360	1080	850	400	1200	1120
	238	820	136	405	340	159	475	475	245	745	725	430	1290	1020	475	1420	1330
	261	820	149	445	370	174	520	520	270	820	795	470	1410	1110	520	1560	1460
	297	820	170	505	420	198	590	590	310	930	900	535	1610	1270	590		
	333	820	190	570	475	220	665	665	345	1040	1010	600		1420	665		
	392	820	220	670	560	260	780	780	410	1230	1190	705			780		
	454	820	255	775	645	300	900	900	475	1420	1380	820			900		
	500	820	285	850	710	330	1000	1000	520	1570	1520	900			1000		
FA67R37 2 3	539	820	300	910	760	355	1060	1060	555		1620	960			1060		
	634	820	355	1070	890	415	1250	1250	655			1130			1250		
	722	820	405	1220	1010	475	1420	1420	745			1290			1420		
	864	820	485	1460	1220	565			890			1540					
	984	820	555		1380	645			1010								
	1126	820	635		1590	740			1160								
	1256	820	705			820			1300								
	1437	820	810			940			1480								
	1631	820	920			1070											
	1859	820	1050			1220											
	2126	820	1200			1400											
	2372	820	1330			1560											
	2714	820	1530														
FA67R37 3 2	175	820	99	295	245	115	345	345	181	540	525	310	930	740	345	1030	970
	205	820	116	345	285	135	405	405	210	635	615	365	1100	860	405	1210	1130
	231	820	130	390	325	152	455	455	235	715	695	410	1230	970	455	1370	1280
	257	820	145	435	360	169	505	505	265	795	770	455	1370	1080	505	1520	1420
	305	820	172	515	430	200	600	600	315	940	910	545	1630	1290	600		
	338	820	191	570	475	220	665	665	350	1050	1010	600		1430	665		
	384	820	215	650	540	250	755	755	395	1190	1150	685		1620	755		
	437	820	245	740	615	285	860	860	450	1350	1310	780			860		
	509	820	285	860	715	335	1000	1000	525	1580	1530	910			1000		
	572	820	320	960	800	375	1130	1130	590			1020			1130		
	641	820	360	1080	900	420	1260	1260	660			1140			1260		
	755	820	425	1270	1060	495	1490	1490	780			1350			1490		
	858	820	480	1450	1210	565			880			1530					
	970	820	545		1360	635			1000								
	1102	820	620		1550	725			1140								
	1271	820	715			830			1310								
	1429	820	800			940			1470								
	1635	820	920			1070											
	1884	820	1060			1240											
	2106	820	1180			1380											
FA67R37 3 3	2439	820	1360			1580											
	2756	820	1530														

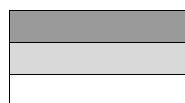
m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
FA67R37 2 2		44	45	54	62	65	
FA67R37 2 3		44	46	55	62	65	
FA67R37 3 2		45	46	56	63	66	
FA67R37 3 3		46	47	56	63	66	

FAF: + 6.3 kg / F: + 2.8 kg / FF: + 8.9 kg

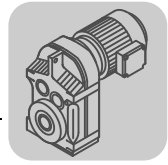

F 77

M _a [Nm]			DRM																				
i	M _{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9	2.5	7.5	6.2	2.7	8.1	7.1
FA77 2	5.76	1080							6.2	19	18	11	32	25	12	35	33	14	42	35	15	46	40
	6.64	1080							7.1	21	21	12	37	29	14	41	38	16	49	40	18	53	46
	7.39	1080							7.9	24	23	14	41	32	15	45	43	18	54	45	19	58	51
	8.26	1080	4.8	15	12	5.6	17	17	8.9	27	26	15	46	36	17	51	48	20	60	50	22	65	57
	9.30	1080	5.4	16	14	6.4	19	19	10.0	30	29	17	52	41	19	57	54	23	68	56	25	74	64
	12.20	1500							13	39	38	23	68	54	25	75	70	30	89	74	32	96	85
	14.06	1500							15	45	44	26	78	62	29	86	81	34	103	85	37	111	97
	15.64	1500							17	50	49	29	87	69	32	96	90	38	115	95	41	124	108
	17.49	1500	10	31	26	12	36	36	19	56	55	32	97	77	36	108	101	43	128	106	46	138	121
	19.70	1500	12	35	29	13	40	40	21	63	62	37	110	87	40	121	113	48	144	119	52	156	137
	21.43	1500	13	38	31	15	44	44	23	69	67	40	119	94	44	132	123	52	157	130	56	169	149
	25.50	1500	15	45	37	17	52	52	27	82	80	47	142	112	52	157	147	62	187	154	67	200	177
	28.75	1430	17	51	42	20	59	59	31	93	90	53	160	126	59	177	166	70	210	174	76	225	199
FA77 3	31.51	1380	18	55	46	22	65	65	34	102	98	58	175	138	65	194	181	77	230	191	83	245	215
	36.58	1110	21	64	54	25	75	75	39	118	114	68	200	161	75	220	210	89	265	220	96	285	250
	25.54	1450							27	81	79	47	140	111	52	155	145	62	185	153	67	200	175
	29.91	1500							32	95	92	55	164	130	61	182	170	72	215	179	78	230	200
	33.74	1500							36	107	104	62	185	146	68	205	192	81	240	200	88	260	230
	38.23	1500	22	66	55	26	77	77	41	122	118	70	210	166	77	230	215	92	275	225	100	295	260
	43.58	1500	25	76	63	29	88	88	46	139	134	80	235	189	88	260	245	105	315	260	113	340	295
	48.37	1500	28	84	70	33	98	98	51	154	149	89	265	205	98	290	275	117	345	285	126	375	330
	55.27	1500	32	96	80	37	112	112	59	176	171	101	300	235	112	335	310	133	395	330	144	430	375
	58.32	1500	34	101	84	39	118	118	62	186	180	107	320	250	118	350	330	141	420	345	152	455	395
	66.46	1500	38	115	96	45	135	135	71	210	205	122	365	285	135	400	375	160	480	395	173	515	455
	72.50	1500	42	126	105	49	147	147	77	230	220	133	395	310	147	440	410	175	520	430	189	565	495
	75.02	1500	43	130	109	51	152	152	80	235	230	137	410	325	152	455	425	181	540	445	195	585	510
	85.52	1500	49	148	124	58	173	173	91	270	260	157	470	370	173	515	485	205	615	510	220	665	585
	94.93	1500	55	165	137	64	192	192	101	300	290	174	520	410	192	575	540	225	685	565	245	740	650
	108.46	1500	63	188	157	73	215	215	115	345	330	199	595	470	215	655	615	260	780	645	280	840	740
	114.45	1500	66	199	166	77	230	230	121	360	350	205	625	495	230	695	650	275	820	680	295	890	780
	130.42	1500	75	225	189	88	260	260	138	415	400	235	715	565	260	790	740	310	940	775	335	1010	890
	142.27	1500	82	245	205	96	285	285	151	450	435	260	780	615	285	860	800	340	1020	850	370	1110	970
	166.47	1500	96	285	240	112	335	335	177	525	510	305	910	720	335	1010	940	400	1200	990	430	1300	1130
	188.40	1500	109	325	270	127	380	380	200	595	580	345	1030	810	380	1140	1070	450	1360	1120	490	1470	1290
	198.31	1500	115	340	285	134	400	400	210	630	610	360	1090	860	400	1200	1120	475	1430	1180	515	1540	1350
	225.79	1500	131	390	325	152	455	455	235	715	695	410	1240	970	455	1370	1280						
	262.93	1500	152	455	380	178	530	530															
	281.71	1500	163	485	405	190	570	570															

m [kg]		DRM							
	s	71S12	71M12	90M12	100M12	100L12	132S12	132M12	
FA77	2	57	58	67	75	78	93	105	
FA77	3	58	60	69	76	79	94	105	
FAF: + 6.6 kg / F: + 3.8 kg / FF: + 14.4 kg									



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F 77R37

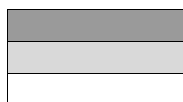
	M _a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M _{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
FA77R37 2 2	292	1110	167	500	415	195	580	580	305	910	890	525	1580	1250	580	1750	1640
	346	1110	198	590	490	230	690	690	360	1080	1050	625	1870	1480	690	2070	1940
	370	1110	210	630	525	245	740	740	385	1160	1120	665	2000	1580	740		2080
	433	1110	245	740	615	285	860	860	450	1360	1320	780		1850	860		
	485	1110	275	830	690	320	970	970	505	1520	1470	870		2070	970		
	571	1110	325	970	810	380	1140	1140	595	1790	1740	1030			1140		
	660	1110	375	1130	940	440	1320	1320	690	2070	2010	1190			1320		
	706	1110	400	1210	1000	470	1410	1410	735	2210	2150	1270			1410		
	815	1110	465	1390	1160	540	1630	1630	850			1470			1630		
	893	1110	500	1510	1260	585	1760	1760	920			1590			1760		
FA77R37 2 3	1051	1110	590	1780	1480	690	2070	2070	1080			1870			2070		
	1185	1110	665	2000	1670	780			1220			2110					
	1343	1110	755		1890	880			1390								
	1433	1110	800		2020	940			1480								
	1639	1110	920			1080			1690								
	1759	1110	990			1150			1820								
	2039	1110	1150			1340			2110								
	2238	1110	1260			1470											
	2536	1110	1430			1670											
	2705	1110	1520			1780											
	3095	1110	1740			2030											
	3320	1110	1870			2180											
	3851	1110	2170														
FA77R37 3 2	199	1500	112	335	280	131	390	390	205	615	595	355	1060	840	390	1180	1100
	221	1500	125	370	310	146	435	435	225	685	665	395	1180	930	435	1310	1220
	247	1500	140	415	345	163	485	485	255	765	740	440	1320	1040	485	1460	1370
	280	1500	158	470	395	185	550	550	285	860	840	500	1500	1180	550	1660	1550
	323	1500	182	545	455	210	635	635	330	1000	970	575	1730	1360	635	1910	1790
	367	1500	205	620	515	240	725	725	380	1140	1100	655	1960	1550	725	2170	2030
	413	1500	230	695	580	270	810	810	425	1280	1240	735	2210	1740	810	2440	2290
	480	1500	270	810	675	315	940	940	495	1490	1440	850	2570	2030	940	2840	2660
	538	1500	300	910	755	350	1060	1060	555	1670	1620	960	2880	2270	1060		2980
	615	1500	345	1040	860	405	1210	1210	635	1910	1850	1100		2600	1210		
	710	1500	400	1200	1000	465	1400	1400	735	2200	2130	1260			1400		
	810	1500	455	1370	1140	530	1600	1600	830	2510	2440	1440			1600		
	910	1500	510	1540	1280	595	1790	1790	940	2820	2740	1620			1790		
	1053	1500	590	1780	1480	690	2080	2080	1090			1880			2080		
	1200	1500	675	2030	1690	790	2370	2370	1240			2140			2370		
	1354	1500	760	2290	1910	890	2670	2670	1400			2420			2670		
	1544	1500	870	2610	2180	1010			1590			2760					
	1728	1500	970	2920	2440	1130			1780								

Table continued on next page. Weight table on next page.



M_a [Nm]			DRM														
i	M_{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
FA77R37 	2029	1500	1130		2830	1320			2070								
	2284	1500	1270			1480			2330								
	2613	1500	1450			1700			2670								
	2978	1500	1660			1930											
	3381	1500	1880			2200											
	3832	1500	2130			2490											
	4435	1500	2470			2880											
	5026	1500	2800														

m [kg]		DRM														
s		71S12			71M12			90M12			100M12			100L12		
		S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
FA77R37		66			67			76			84			87		
FA77R37		66			67			76			84			87		
FA77R37		67			68			77			85			88		
FA77R37		67			68			78			85			88		
FAF: + 6.6 kg / F: + 3.8 kg / FF: + 14.4 kg																



→ 15



F 87

M _a [Nm]			DRM																	
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9	2.5	7.5	6.2	2.7	8.1	7.1
FA87 2	7.35	1530				7.9	24	23	14	41	32	15	45	42	18	54	44	19	58	51
	8.29	1530				8.9	27	26	15	46	36	17	51	48	20	61	50	22	66	57
	17.12	3000				18	55	53	32	95	75	35	105	99	42	125	104	45	135	119
	19.31	3000				21	62	60	36	107	85	40	119	111	47	141	117	51	153	134
	21.32	3000				23	69	67	40	119	94	44	131	123	52	156	129	56	169	148
	23.68	3000	16	49	49	25	76	74	44	132	104	49	146	136	58	173	143	62	187	164
	26.50	3000	18	54	54	28	85	83	49	147	116	54	163	153	65	194	160	70	205	184
	28.78	2450	20	59	59	31	93	90	53	160	126	59	177	166	70	210	174	76	225	199
33.92	2610	23	70	70	36	109	106	63	189	149	70	205	195	83	245	205	89	265	235	
FA87 3	39.30	2720				42	125	121	72	215	171	80	235	220	95	280	230	102	305	265
	45.28	2820				48	144	140	83	245	197	92	275	255	109	325	270	118	350	310
	50.36	2940				53	160	155	92	275	215	102	305	285	121	360	300	131	390	340
	76.39	3000				81	240	235	140	415	330	155	460	430	184	550	455	199	595	520
	88.01	3000				93	280	270	161	480	380	178	530	500	210	635	525	225	685	600
	97.89	3000				104	310	300	179	535	420	198	590	555	235	705	585	250	760	670
	109.49	3000	74	220	220	116	345	335	200	600	475	220	665	620	260	790	650	285	850	745
	123.29	3000	83	245	245	131	390	380	225	675	535	245	745	700	295	890	735	320	960	840
	134.16	3000	91	270	270	142	425	410	245	735	580	270	810	760	320	970	800	345	1040	910
	159.61	3000	108	320	320	169	505	490	290	870	690	320	960	900	380	1150	950	415	1240	1090
	179.97	3000	121	360	360	191	570	555	325	980	780	360	1090	1020	430	1300	1070	465	1400	1230
	197.20	3000	133	395	395	205	625	605	360	1080	850	395	1190	1120	475	1420	1170	510	1540	1350
	228.93	3000	155	460	460	240	725	705	415	1250	990	460	1390	1300	550	1650	1360	595	1780	1560
	255.37	3000	172	515	515	270	810	785	465	1400	1100	515	1550	1450	615	1840	1520	660	1990	1740
	270.68	3000	183	545	545	285	860	830	495	1480	1170	545	1640	1540	650	1950	1610	700	2110	1850

m [kg]		DRM																	
	s	71M12			90M12			100M12			100L12			132S12			132M12		
FA87		96			105			110			115			130			145		
FA87		99			110			115			120			135			145		
FAF: + 12.7 kg / F: + 5.7 kg / FF: + 21.3 kg																			




F 87R57

	M_a [Nm]		DRM														
	i	M_{amax}	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
FA87R57 2 2	193	3000	110	330	275	129	385	385	200	605	585	345	1040	820	385	1150	1080
	211	3000	121	360	300	141	420	420	220	660	640	380	1140	900	420	1260	1180
	240	3000	137	410	340	160	480	480	250	750	730	430	1300	1020	480	1440	1340
	281	3000	161	480	400	187	560	560	290	880	850	505	1520	1200	560	1680	1570
	315	3000	180	540	450	210	630	630	330	990	960	570	1710	1350	630	1890	1770
	350	3000	200	600	500	230	700	700	365	1100	1060	630	1900	1500	700	2100	1960
	398	3000	225	680	565	265	795	795	415	1250	1210	720	2160	1700	795	2380	2230
	468	3000	265	800	665	310	930	930	490	1470	1420	840	2540	2000	930	2800	2630
	519	3000	295	890	740	345	1030	1030	540	1630	1580	930	2810	2220	1030	3110	2910
	592	3000	335	1010	840	390	1180	1180	620	1860	1800	1070	3210	2530	1180	3550	3320
FA87R57 2 3	662	3000	375	1130	940	440	1320	1320	690	2080	2010	1190	3590	2830	1320	3970	3720
	748	3000	420	1260	1050	490	1470	1470	770	2320	2250	1330	4010	3160	1470	4430	4150
	883	3000	495	1490	1240	580	1740	1740	910	2740	2660	1570	4730	3740	1740	5230	4900
	988	3000	555	1670	1390	650	1950	1950	1020	3060	2970	1760	5300	4180	1950	5850	5480
	1142	3000	645	1930	1610	750	2250	2250	1180	3540	3440	2040		4830	2250		
	1278	3000	720	2160	1800	840	2520	2520	1320	3970	3850	2280		5410	2520		
	1476	3000	830	2500	2080	970	2910	2910	1520	4580	4440	2640			2910		
	1717	3000	960	2900	2420	1130	3390	3390	1770	5330	5170	3070			3390		
	1913	3000	1080	3240	2700	1260	3780	3780	1980	5940	5760	3420			3780		
	2134	3000	1200	3610	3010	1400	4210	4210	2200			3810			4210		
	2524	3000	1420	4270	3560	1660	4980	4980	2610			4510			4980		
	2857	3000	1610	4840	4030	1880	5640	5640	2950			5110			5640		
	3196	3000	1800	5410	4510	2100			3300			5710					
	3503	3000	1970	5930	4940	2300			3620								
	3919	3000	2210		5530	2580			4050								
	4562	3000	2570			3000											
	4952	3000	2790			3260											
FA87R57 3 2	249	3000							255	770	750	445	1330	1050	490	1470	1380
	300	3000							310	930	900	535	1600	1270	590	1770	1660
	345	3000	195	580	485	225	680	680	355	1070	1030	615	1850	1460	680	2040	1910
	452	3000	255	765	635	295	890	890	465	1400	1360	800	2420	1910	890	2680	2510
	515	3000	290	870	725	335	1010	1010	530	1590	1550	920	2760	2180	1010	3050	2860
	609	3000	340	1030	850	400	1200	1200	630	1890	1830	1080	3260	2570	1200	3610	3380
	674	3000	380	1140	950	440	1330	1330	695	2090	2030	1200	3610	2850	1330	3990	3740
	780	3000	440	1320	1100	510	1540	1540	800	2420	2340	1390	4180	3300	1540	4620	4330
	887	3000	500	1500	1250	580	1750	1750	910	2750	2670	1580	4750	3750	1750	5260	4920
	1010	3000	570	1710	1420	665	1990	1990	1040	3130	3040	1800	5410	4270	1990	5990	5600
	1148	3000	645	1940	1620	755	2260	2260	1180	3560	3450	2050		4860	2260		
	1300	3000	730	2200	1830	850	2570	2570	1340	4030	3910	2320		5500	2570		
	1493	3000	840	2520	2100	980	2950	2950	1540	4630	4490	2670			2950		
	1709	3000	960	2890	2410	1120	3370	3370	1760	5300	5140	3050			3370		
	1930	3000	1090	3270	2720	1270	3810	3810	1990	5990	5810	3450			3810		
	2199	3000	1240	3720	3100	1440	4340	4340	2270			3930			4340		
	2576	3000	1450	4360	3630	1690	5090	5090	2660			4600			5090		
	2881	3000	1620	4880	4060	1890	5690	5690	2980			5150			5690		
	3244	3000	1830	5490	4580	2130			3350			5800					

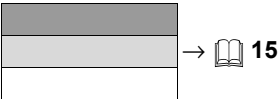
Table continued on next page. Weight table on next page.



M _a [Nm]			DRM														
i	M _{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
FA87R57 	3721	3000	2070		5190	2420			3800								
	4245	3000	2360		5920	2760			4340								
	4954	3000	2760			3220			5060								
	5510	3000	3070			3580			5630								
	6273	3000	3500			4080											
	7100	3000	3960			4620											
	8142	3000	4540			5300											
	9381	3000	5230														
	10433	3000	5820														

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
FA87R57		110	115	125	130	135	
FA87R57		115	115	125	130	135	
FA87R57		115	115	125	135	135	
FA87R57		115	115	125	135	140	

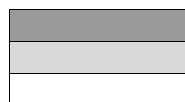
FAF: + 12.7 kg / F: + 5.7 kg / FF: + 21.3 kg

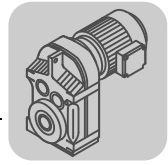



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M_a [Nm]			DRM														
	i	M_{amax} [Nm]	90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9	2.5	7.5	6.2	2.7	8.1	7.1
FA97 	9.06	2360	9.7	29	28	17	50	40	19	56	52	22	66	55	24	72	63
	22.11	4300	24	71	69	41	123	97	45	136	127	54	162	134	58	175	153
	24.92	4300	27	80	78	46	139	109	51	153	144	61	182	151	66	197	173
	27.44	4300	29	88	86	51	153	121	56	169	158	67	200	166	72	215	190
	30.39	4300	33	98	95	56	169	133	62	187	175	74	220	184	80	240	210
	33.91	4300	36	109	106	63	189	149	70	205	195	83	245	205	89	265	235
	36.64	3070	39	118	114	68	200	161	75	225	210	89	265	220	97	285	250
	43.28	3070	46	139	135	80	240	190	89	265	245	106	315	260	114	340	295
FA97 	58.06	4300	62	185	179	106	315	250	118	350	330	140	415	345	151	450	395
	65.47	4300	69	205	200	120	355	280	133	395	370	158	470	390	170	510	445
	72.29	4300	77	230	220	132	395	310	146	435	410	174	520	430	188	560	495
	80.31	4300	85	255	245	147	440	345	163	485	455	194	580	480	205	625	545
	89.85	4300	95	285	275	165	490	385	182	545	510	215	645	535	230	700	615
	97.58	4300	104	310	300	179	535	420	198	590	555	235	705	580	250	760	665
	112.99	4300	120	355	345	205	620	490	225	685	640	270	810	675	290	880	770
	127.42	4300	135	405	390	230	700	550	255	770	725	305	920	760	330	990	870
	140.71	4300	149	445	430	255	770	610	280	850	800	335	1010	840	365	1090	960
	156.30	4300	166	495	480	285	850	675	315	940	880	375	1130	930	405	1220	1070
	174.87	4300	186	555	535	320	960	755	350	1060	990	420	1260	1040	455	1360	1190
	189.92	4300	200	600	585	345	1040	820	380	1150	1080	455	1370	1130	490	1480	1300
	223.88	4300	235	710	690	410	1230	970	450	1360	1270	535	1610	1330	580	1740	1530
	253.41	4300	265	800	780	460	1390	1090	510	1530	1440	610	1830	1510	655	1970	1730
	276.77	4300	290	880	850	505	1520	1200	560	1680	1570	665	2000	1650	720	2160	1890

m [kg]		DRM				
	s	90M12	100M12	100L12	132S12	132M12
FA97		165	175	175	190	205
FA97		170	180	180	195	210
FAF: + 21.7 kg / F: + 7.5 kg / FF: + 40.3 kg						


 →  **15**



F 97R57

	M _a [Nm]		DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1 0.6	S3 1.8	S1 /V 1.5	S1 0.7	S3 2.1	S1 /V 2.1	S1 1.1	S3 3.3	S1 /V 3.2	S1 1.9	S3 5.7	S1 /V 4.5	S1 2.1	S3 6.3	S1 /V 5.9
FA97R57 2 2	242	4300	138	415	345	161	480	480	250	760	735	435	1310	1030	480	1450	1360
	275	4300	157	470	390	183	550	550	285	860	830	495	1490	1170	550	1650	1540
	317	4300	181	540	450	210	630	630	330	990	960	570	1720	1350	630	1900	1780
	361	4300	205	615	515	240	720	720	375	1130	1100	650	1960	1540	720	2160	2020
	403	4300	230	690	575	265	800	800	420	1260	1220	725	2180	1720	800	2410	2260
	473	4300	270	810	675	315	940	940	495	1480	1440	850	2560	2020	940	2830	2650
	510	4300	290	870	725	340	1020	1020	530	1600	1550	920	2760	2180	1020	3060	2860
	569	4300	325	970	810	375	1130	1130	595	1780	1730	1030	3090	2430	1130	3410	3190
	667	4300	380	1140	950	440	1330	1330	695	2090	2030	1200	3620	2860	1330	4000	3740
	760	4300	430	1300	1080	505	1520	1520	795	2380	2310	1370	4120	3250	1520	4560	4270
FA97R57 2 3	892	4300	505	1520	1270	590	1780	1780	930	2800	2710	1610	4840	3820	1780	5350	5010
	1023	4300	575	1730	1440	670	2020	2020	1050	3170	3080	1820	5480	4330	2020	6060	5680
	1189	4300	670	2010	1670	780	2350	2350	1230	3690	3580	2120	6380	5030	2350	7050	6600
	1316	4300	740	2230	1850	860	2600	2600	1360	4080	3960	2350	7060	5570	2600	7800	7300
	1468	4300	820	2480	2070	960	2900	2900	1520	4560	4420	2620	7870	6210	2900		8150
	1741	4300	980	2950	2450	1140	3440	3440	1800	5400	5240	3110		7370	3440		
	1971	4300	1110	3330	2780	1290	3890	3890	2040	6120	5930	3520		8340	3890		
	2199	4300	1240	3720	3100	1440	4340	4340	2270	6830	6620	3930			4340		
	2448	4300	1380	4140	3450	1610	4830	4830	2530	7600	7370	4370			4830		
	3009	4300	1690	5090	4240	1980	5940	5940	3110			5380			5940		
	3357	4300	1890	5680	4740	2210	6630	6630	3470			6000			6630		
	3914	4300	2210	6630	5520	2570	7730	7730	4050			7000			7730		
	4367	4300	2460	7400	6160	2870			4520			7810					
	5016	4300	2830	8490	7080	3300			5190								
	5680	4300	3200		8020	3740											
	6338	4300	3580			4170											
FA97R57 3 2	195	4300							200	605	585	345	1040	820	385	1150	1080
	208	4300	117	350	290	137	410	410	215	645	625	370	1110	880	410	1230	1150
	245	4300	138	415	345	161	480	480	250	760	735	435	1310	1030	480	1450	1360
	285	4300	161	480	400	188	560	560	295	880	850	505	1520	1200	560	1690	1580
	363	4300	205	615	510	235	715	715	375	1120	1090	645	1940	1530	715	2150	2010
	406	4300	225	685	570	265	800	800	420	1260	1220	725	2170	1710	800	2400	2250
	467	4300	260	790	655	305	920	920	480	1450	1400	830	2500	1970	920	2760	2590
	529	4300	295	890	745	345	1040	1040	545	1640	1590	940	2830	2240	1040	3130	2930
	605	4300	340	1020	850	395	1190	1190	625	1870	1820	1080	3240	2560	1190	3580	3360
	690	4300	385	1160	970	450	1360	1360	710	2140	2070	1230	3700	2920	1360	4090	3830
	784	4300	440	1320	1100	515	1540	1540	810	2430	2360	1400	4200	3320	1540	4640	4350
	898	4300	505	1520	1260	590	1770	1770	920	2780	2700	1600	4810	3800	1770	5320	4980
	1022	4300	575	1730	1440	670	2020	2020	1050	3170	3070	1820	5480	4320	2020	6060	5670
	1171	4300	660	1980	1650	770	2310	2310	1210	3630	3520	2090	6280	4960	2310	6940	6500
	1327	4300	745	2240	1870	870	2620	2620	1370	4120	3990	2370	7120	5620	2620	7870	7370
	1527	4300	860	2580	2150	1000	3010	3010	1580	4740	4600	2730	8190	6460	3010		8480
	1722	4300	970	2910	2430	1130	3400	3400	1780	5340	5180	3080		7290	3400		
	1970	4300	1110	3330	2780	1290	3890	3890	2040	6120	5930	3520		8340	3890		
	2245	4300	1260	3800	3170	1470	4430	4430	2320	6970	6760	4010			4430		
	2553	4300	1440	4320	3600	1680	5040	5040	2640	7930	7690	4560			5040		
	2907	4300	1640	4920	4100	1910	5740	5740	3010			5190			5740		
	3352	4300	1890	5680	4730	2200	6620	6620	3470			5990			6620		
	3906	4300	2200	6610	5510	2570	7720	7720	4040			6980			7720		

Table continued on next page. Weight table on next page.



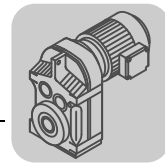
M_a [Nm]			DRM														
i	M_{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
FA97R57 	4333	4300	2410	7250	6040	2820	8460	8460	4430			7650			8460		
	4961	4300	2760	8300	6920	3230			5070								
	5615	4300	3130		7830	3650			5740								
	6469	4300	3610			4210			6610								
	7328	4300	4080			4770			7490								
	8318	4300	4640			5410			8510								
	9576	4300	5340			6230											
	10838	4300	6040			7050											
	12324	4300	6870			8020											
	14022	4300	7820														

m [kg]		DRM														
s		71S12			71M12			90M12			100M12			100L12		
		170	175	185	190	195	200	210	215	225	230	240	250	260	270	280
FA97R57		170	175	185	190	195	200	210	215	225	230	240	250	260	270	280
FA97R57		175	175	185	190	195	200	210	215	225	230	240	250	260	270	280
FA97R57		180	180	190	195	200	210	215	225	230	240	250	260	270	280	290
FA97R57		180	180	190	195	200	210	215	225	230	240	250	260	270	280	290

FAF: + 21.7 kg / F: + 7.5 kg / FF: + 40.3 kg



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F 107R77

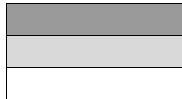
	M _a [Nm]		DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1 0.6	S3 1.8	S1 /V 1.5	S1 0.7	S3 2.1	S1 /V 2.1	S1 1.1	S3 3.3	S1 /V 3.2	S1 1.9	S3 5.7	S1 /V 4.5	S1 2.1	S3 6.3	S1 /V 5.9
FA107R77 2 2	266	7840							275	830	810	480	1440	1140	530	1590	1490
	300	7840							310	940	910	540	1620	1280	600	1800	1680
	340	7840	194	580	485	225	680	680	355	1060	1030	615	1840	1450	680	2040	1910
	387	7840	220	660	550	255	770	770	405	1210	1180	700	2100	1650	770	2320	2170
	430	7840	245	735	610	285	860	860	450	1350	1310	775	2330	1840	860	2580	2410
	491	7840	280	840	700	325	980	980	510	1540	1490	880	2660	2100	980	2940	2760
	518	7840	295	880	740	345	1030	1030	540	1620	1570	930	2810	2220	1030	3100	2910
	591	7840	335	1010	840	390	1180	1180	615	1850	1800	1060	3200	2530	1180	3540	3320
FA107R77 2 3	644	7840	365	1100	920	425	1280	1280	675	2020	1960	1160	3490	2760	1280	3860	3620
	696	7840							720	2160	2090	1240	3730	2940	1370	4120	3860
	800	7840	450	1350	1120	525	1580	1580	820	2480	2410	1430	4290	3380	1580	4740	4440
	923	7840	520	1560	1300	605	1820	1820	950	2860	2780	1650	4950	3910	1820	5470	5120
	1015	7840	570	1710	1430	665	2000	2000	1050	3150	3050	1810	5440	4290	2000	6010	5630
	1193	7840	670	2020	1680	785	2350	2350	1230	3700	3590	2130	6400	5050	2350	7070	6620
	1263	7840	710	2140	1780	830	2490	2490	1300	3920	3800	2250	6770	5350	2490	7490	7010
	1436	7840	810	2430	2020	940	2830	2830	1480	4460	4320	2560	7700	6080	2830	8510	7970
	1590	7840	890	2690	2240	1040	3140	3140	1640	4930	4780	2840	8530	6730	3140	9430	8830
	1813	7840	1020	3070	2560	1190	3580	3580	1870	5630	5460	3240	9720	7680	3580	10700	10000
	2129	7840	1200	3600	3000	1400	4200	4200	2200	6610	6410	3800	11400	9010	4200	12600	11800
	2255	7840	1270	3820	3180	1480	4450	4450	2330	7000	6790	4030	12100	9550	4450	13300	12500
	2563	7840	1440	4340	3610	1680	5060	5060	2650	7960	7720	4580	13700	10800	5060	15200	14200
	2839	7840	1600	4810	4000	1870	5610	5610	2930	8810	8550	5070	15200	12000	5610		
	3347	7840	1890	5670	4720	2200	6610	6610	3460	10300	10000	5980		14100	6610		
	3815	7840	2150	6460	5380	2510	7540	7540	3950	11800	11400	6820			7540		
	4016	7840	2260	6800	5670	2640	7930	7930	4150	12400	12000	7180			7930		
	4593	7840	2590	7780	6480	3020	9080	9080	4750	14200	13800	8210			9080		
	5383	7840	3040	9120	7600	3540	10600	10600									
FA107R77 3 2	190	7680							197	590	570	335	1010	800	375	1120	1050
	225	7680							230	695	675	400	1200	950	440	1330	1240
	255	7680	144	430	360	168	500	500	260	790	765	455	1360	1080	500	1510	1410
	291	7680	164	490	410	192	575	575	300	900	870	520	1560	1230	575	1720	1610
	333	7680	188	560	470	215	655	655	340	1030	1000	595	1780	1410	655	1970	1840
	370	7680	205	625	520	240	730	730	380	1140	1110	660	1980	1560	730	2190	2050
	436	7680	245	735	615	285	860	860	450	1350	1310	775	2330	1840	860	2580	2420
	489	7680							505	1510	1470	870	2620	2070	960	2900	2710
	560	7680							575	1730	1680	1000	3000	2370	1100	3320	3110
	640	7680	360	1080	900	420	1260	1260	660	1980	1920	1140	3430	2710	1260	3790	3550
	736	7680							760	2280	2210	1310	3940	3110	1450	4360	4080
	834	7680	470	1410	1170	545	1640	1640	860	2590	2510	1490	4470	3530	1640	4940	4630
	950	7680	535	1600	1340	625	1870	1870	980	2950	2860	1690	5090	4020	1870	5630	5270
	1087	7680	610	1840	1530	715	2140	2140	1120	3370	3270	1940	5830	4600	2140	6440	6030
	1243	7680	700	2100	1750	810	2450	2450	1280	3860	3740	2220	6670	5260	2450	7370	6900
	1401	7680	790	2370	1970	920	2760	2760	1450	4350	4220	2500	7510	5930	2760	8300	7780
	1597	7680	900	2700	2250	1050	3150	3150	1650	4960	4810	2850	8560	6760	3150	9470	8870
	1826	7680	1030	3090	2570	1200	3600	3600	1890	5670	5500	3260	9790	7730	3600	10800	10100
	2068	7680	1160	3500	2920	1360	4080	4080	2140	6420	6220	3690	11000	8760	4080	12200	11400
	2369	7680	1330	4010	3340	1560	4680	4680	2450	7350	7130	4230	12700	10000	4680	14000	13100
	2756	7680	1550	4670	3890	1810	5440	5440	2850	8560	8300	4920	14700	11600	5440		15300
	3037	7680	1710	5140	4280	2000	6000	6000	3140	9430	9140	5430		12800	6000		

Table continued on next page. Weight table on next page.



M_a [Nm]			DRM														
	i	M_{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
FA107R77 	3521	7680	1960	5890	4910	2290	6870	6870	3600	10800	10400	6220		14700	6870		
	3948	7680	2200	6600	5500	2570	7710	7710	4030	12100	11700	6970			7710		
	4567	7680	2540	7640	6370	2970	8920	8920	4670	14000	13500	8070			8920		
	5223	7680	2910	8740	7280	3400	10200	10200	5340			9230			10200		
	5954	7680	3320	9960	8300	3870	11600	11600	6090			10500			11600		
	6767	7680	3770	11300	9440	4400	13200	13200	6920			11900			13200		
	7674	7680	4280	12800	10700	4990	14900	14900	7850			13500			14900		
	8548	7680	4770	14300	11900	5560			8740			15100					
	10039	7680	5600		14000	6530			10200								
	11348	7680	6330			7380											
	14767	7680	8240			9610			15100								
	16888	7680	9420			10900											
	18933	7680	10500			12300											
	21652	7680	12000			14000											
	25375	7680	14100														

m [kg]		DRM					
	s	71S12	71M12	90M12	100M12	100L12	
FA107R77	 2  2	255	255	265	275	275	
FA107R77	 2  3	255	260	265	275	275	
FA107R77	 3  2	265	265	275	285	285	
FA107R77	 3  3	265	270	275	285	285	
FAF: + 21.0 kg / F: + 16.6 kg / FF: + 43.9 kg							



→ 15



	M_a [Nm]		DRM					
	i	M_{amax} [Nm]	132S12		S1 /V	S1	132M12	
			S1 2.5	S3 7.5			S3 8.1	S1 /V 7.1
FA107R77 2 2	266	7840	630	1900	1570	680	2050	1790
	300	7840	710	2140	1770	770	2310	2020
	340	7840	800	2420	2000	870	2620	2300
	387	7840	920	2760	2280	990	2980	2610
	430	7840	1020	3070	2540	1100	3310	2900
	491	7840	1160	3500	2900	1260	3780	3320
	518	7840	1230	3700	3060	1330	3990	3500
	591	7840	1400	4220	3490	1520	4560	3990
	644	7840	1530	4600	3800	1650	4970	4350
FA107R77 2 3	696	7840	1630	4910	4060	1760	5300	4650
	800	7840	1880	5640	4660	2030	6100	5340
	923	7840	2170	6510	5380	2340	7030	6160
	1015	7840	2380	7160	5920	2570	7730	6780
	1193	7840	2800	8420	6960	3030	9090	7970
	1263	7840	2970	8910	7370	3210	9630	8440
	1436	7840	3370	10100	8380	3650	10900	9590
	1590	7840	3740	11200	9280	4040	12100	10600
	1813	7840	4260	12800	10500	4600	13800	12100
	2129	7840	5010	15000	12400	5410		14200
	2255	7840	5300		13100	5730		15000
	2563	7840	6030		14900	6510		
	2839	7840	6680			7210		
	3347	7840	7870			8500		
	3815	7840	8970			9690		
	4016	7840	9450			10200		
	4593	7840						
	5383	7840						
FA107R77 3 2	190	7680	445	1340	1100	480	1440	1260
	225	7680	525	1580	1310	570	1710	1500
	255	7680	600	1800	1480	645	1940	1700
	291	7680	680	2050	1690	735	2210	1940
	333	7680	780	2350	1940	840	2530	2220
	370	7680	870	2610	2150	940	2820	2470
	436	7680	1020	3070	2540	1100	3320	2910
	489	7680	1150	3450	2850	1240	3720	3260
	560	7680	1310	3950	3260	1420	4270	3740
	640	7680	1500	4510	3730	1620	4880	4270
	736	7680	1730	5190	4290	1870	5610	4910
	834	7680	1960	5880	4860	2110	6350	5570
	950	7680	2230	6700	5540	2410	7240	6340
	1087	7680	2550	7670	6340	2760	8280	7260
	1243	7680	2920	8770	7250	3150	9470	8300
	1401	7680	3290	9890	8170	3560	10600	9360
	1597	7680	3750	11200	9320	4050	12100	10600
	1826	7680	4290	12800	10600	4640	13900	12200
	2068	7680	4860	14600	12000	5250		13800
	2369	7680	5570		13800	6020		
	2756	7680	6480			7000		
	3037	7680	7140			7710		

Table continued on next page. Weight table on next page.



F..DRM – 60 Hz
F..DRM

M _a [Nm]			DRM					
	i	M _{amax}	S1	132S12	S1 /V	S1	132M12	S1 /V
		[Nm]	2.5	S3 7.5			S3 8.1	
FA107R77  3 	3521	7680	8180			8840		
	3948	7680	9180			9910		
	4567	7680	10600			11400		
	5223	7680	12100			13100		
	5954	7680	13800			14900		
	6767	7680						
	7674	7680						
	8548	7680						
	10039	7680						
	11348	7680						
	14767	7680						
	16888	7680						
	18933	7680						
	21652	7680						
	25375	7680						

m [kg]		DRM	
	s	132S12	132M12
FA107R77	 2 	290	305
FA107R77	 2 	290	305
FA107R77	 3 	300	315
FA107R77	 3 	300	315
FAF: + 21.0 kg / F: + 16.6 kg / FF: + 43.9 kg			

	→  15



F 127R77

M _a [Nm]			71S12			71M12			DRM 90M12			100M12			100L12		
	i	M _{amax} [Nm]	S1 0.6	S3 1.8	S1 /V 1.5	S1 0.7	S3 2.1	S1 /V 2.1	S1 1.1	S3 3.3	S1 /V 3.2	S1 1.9	S3 5.7	S1 /V 4.5	S1 2.1	S3 6.3	S1 /V 5.9
FA127R77 	376	12000	210	635	530	245	740	740	385	1160	1130	670	2010	1590	740	2230	2080
	428	12000	240	725	600	280	840	840	440	1320	1280	765	2290	1810	840	2530	2370
	495	12000	275	830	695	325	970	970	510	1530	1490	880	2650	2090	970	2930	2740
	549	12000	310	930	775	360	1080	1080	565	1700	1650	980	2940	2320	1080	3250	3040
	648	12000	365	1090	910	425	1280	1280	670	2010	1950	1150	3470	2740	1280	3840	3590
	727	12000							750	2250	2190	1300	3900	3070	1430	4310	4030
	820	12000							840	2540	2470	1460	4400	3470	1620	4860	4550
	930	12000	525	1570	1310	610	1830	1830	960	2880	2800	1660	4990	3930	1830	5510	5160
	1077	12000	605	1820	1520	705	2120	2120	1110	3340	3240	1920	5770	4560	2120	6380	5980
	1220	12000	685	2060	1720	800	2410	2410	1260	3790	3670	2180	6540	5160	2410	7230	6770
	1390	12000	785	2350	1960	910	2740	2740	1430	4310	4180	2480	7450	5880	2740	8240	7720
	1606	12000	900	2720	2260	1050	3170	3170	1660	4980	4830	2870	8610	6800	3170	9520	8920
	1784	12000	1000	3020	2510	1170	3520	3520	1840	5540	5370	3190	9570	7550	3520	10500	9900
	2038	12000	1150	3450	2870	1340	4020	4020	2110	6330	6130	3640	10900	8630	4020	12000	11300
	2357	12000	1330	3990	3320	1550	4650	4650	2440	7320	7100	4210	12600	9980	4650	13900	13000
	2672	12000	1500	4520	3770	1760	5280	5280	2760	8300	8040	4770	14300	11300	5280	15800	14800
FA127R77 	3031	12000	1690	5070	4220	1970	5920	5920	3100	9300	9020	5350	16000	12600	5920	17700	16600
	3454	12000	1920	5780	4810	2240	6740	6740	3530	10600	10200	6100	18300	14400	6740	20200	18900
	3926	12000	2190	6570	5470	2550	7660	7660	4010	12000	11600	6930	20800	16400	7660	23000	21500
	4533	12000	2520	7580	6320	2950	8850	8850	4630	13900	13400	8010		18900	8850		
	5153	12000	2870	8620	7180	3350	10000	10000	5270	15800	15300	9100		21500	10000		
	5925	12000	3300	9910	8260	3850	11500	11500	6060	18100	17600	10400			11500		
	6715	12000	3740	11200	9360	4370	13100	13100	6870	20600	19900	11800			13100		
	7643	12000	4260	12700	10600	4970	14900	14900	7810	23400	22700	13500			14900		
	8831	12000	4920	14700	12300	5740	17200	17200	9030			15600			17200		
	10191	12000	5680	17000	14200	6630	19900	19900	10400			18000			19900		
	11656	12000	6500	19500	16200	7580	22700	22700	11900			20500			22700		
	12912	12000	7200	21600	18000	8400			13200			22800					
	14722	12000	8210		20500	9580											
	16656	12000	9290		23200	10800			17000								
	19048	12000	10600			12400			19400								
	22323	12000	12400			14500											
	24478	12000	13600			15900											

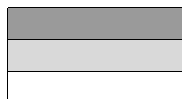
m [kg]		71S12	71M12	DRM 90M12	100M12	100L12
FA127R77		405	405	415	425	425
FA127R77		405	410	415	425	425
FAF: + 37.4 kg / F: + 36.5 kg / FF: + 81.1 kg						



→ 15



	M _a [Nm]		DRM					
	i	M _{amax}	132S12		S1 /V	132M12		
		[Nm]	S1 2.5	S3 7.5		S1 2.7	S3 8.1	S1 /V 7.1
FA127R77  3  2	376	12000	880	2650	2190	950	2860	2510
	428	12000	1000	3020	2490	1080	3260	2860
	495	12000	1160	3490	2880	1250	3770	3300
	549	12000	1290	3870	3200	1390	4180	3660
	648	12000	1520	4570	3780	1640	4940	4330
	727	12000	1710	5130	4240	1840	5540	4850
	820	12000	1920	5780	4780	2080	6250	5480
	930	12000	2180	6560	5420	2360	7090	6210
	1077	12000	2530	7600	6280	2730	8210	7190
	1220	12000	2870	8610	7120	3100	9300	8150
	1390	12000	3270	9810	8110	3530	10500	9290
	1606	12000	3770	11300	9370	4080	12200	10700
	1784	12000	4190	12500	10400	4530	13600	11900
	2038	12000	4790	14300	11800	5180	15500	13600
	2357	12000	5540	16600	13700	5990	17900	15700
	2672	12000	6280	18800	15500	6790	20300	17800
FA127R77  3  3	3031	12000	7040	21100	17400	7610	22800	20000
	3454	12000	8030		19900	8670		22800
	3926	12000	9120		22600	9850		
	4533	12000	10500			11300		
	5153	12000	11900			12900		
	5925	12000	13700			14800		
	6715	12000	15600			16800		
	7643	12000	17700			19100		
	8831	12000	20500			22100		
	10191	12000	23600					
	11656	12000						
	12912	12000						
	14722	12000						
	16656	12000						
	19048	12000						
	22323	12000						
24478	12000							
m [kg]		DRM						
	s	132S12			132M12			
FA127R77	 3  2	440			455			
FA127R77	 3  3	440			455			
FAF: + 37.4 kg / F: + 36.5 kg / FF: + 81.1 kg								



→ 15



F 127R87

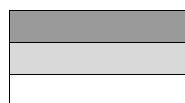
M _a [Nm]			DRM																	
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9	2.5	7.5	6.2	2.7	8.1	7.1
FA127R87	418	12000				430	1290	1250	745	2240	1770	820	2470	2320	980	2950	2430	1060	3180	2790
m [kg]			DRM																	
	s		71M12			90M12			100M12			100L12			132S12			132M12		
FA127R87			435			445			450			455			470			480		
FAF: + 37.4 kg / F: + 36.5 kg / FF: + 81.1 kg																				

	→ 15


F 157R97

M _a [Nm]			DRM											
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
FA157R97 	302	18000				310	930	900	540	1620	1270	595	1790	1670
	446	18000				460	1380	1340	795	2390	1880	880	2640	2470
	845	18000				870	2620	2540	1510	4530	3570	1670	5010	4690
	953	18000				980	2960	2870	1700	5110	4030	1880	5650	5290
	1169	18000	770	2310	2310	1210	3630	3520	2090	6270	4950	2310	6930	6490
	1308	18000	860	2580	2580	1350	4060	3940	2330	7010	5540	2580	7750	7260
	1674	18000	1100	3300	3300	1730	5200	5040	2990	8980	7090	3300	9920	9290
	1944	18000				2010	6030	5850	3470	10400	8230	3840	11500	10700
	2185	18000				2260	6780	6580	3900	11700	9250	4310	12900	12100
	2427	18000	1590	4790	4790	2510	7530	7310	4340	13000	10200	4790	14300	13400
FA157R97 	2780	18000	1810	5430	5430	2840	8530	8270	4910	14700	11600	5430	16200	15200
	4130	18000				4220	12600	12200	7290	21800	17200	8060	24200	22600
	4831	18000				4940	14800	14300	8530	25600	20200	9430	28300	26500
	5404	18000	3510	10500	10500	5520	16500	16000	9550	28600	22600	10500	31600	29600
	6295	18000	4090	12200	12200	6440	19300	18700	11100	33300	26300	12200		34500
	7075	18000	4600	13800	13800	7230	21700	21000	12500		29600	13800		
	8026	18000				8210	24600	23800	14100		33500	15600		
	9021	18000				9220	27600	26800	15900			17600		
	10033	18000				10200	30700	29800	17700			19500		
	12235	18000	7960	23800	23800	12500			21600			23800		
	13751	18000	8950	26800	26800	14000			24300			26800		
	16358	18000	10600	31900	31900	16700			28900			31900		
	17984	18000	11700	35100	35100	18400			31700			35100		
	20212	18000	13100			20600			35700					
	23464	18000	15200			24000								
	26173	18000	17000			26700								
	31434	18000	20400			32100								

m [kg]		DRM				
	s	71M12	90M12	100M12	100L12	
FA157R97		730	740	750	750	
FA157R97		730	740	750	750	
FAF: + 58.6 kg / F: + 20.6 kg / FF: + 127.5 kg						

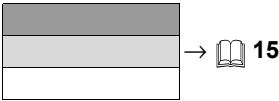


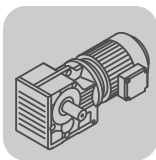
→ 15



	M _a [Nm]		DRM					
	i	M _{amax}	132S12			132M12		
		[Nm]	S1	S3	S1 /V	S1	S3	S1 /V
			2.5	7.5	6.2	2.7	8.1	7.1
FA157R97 	302	18000	710	2130	1760	765	2300	2010
	446	18000	1040	3140	2600	1130	3400	2980
	845	18000	1980	5960	4930	2140	6440	5640
	953	18000	2240	6720	5560	2420	7260	6360
	1169	18000	2750	8250	6820	2970	8910	7810
	1308	18000	3070	9230	7630	3320	9970	8740
	1674	18000	3930	11800	9770	4250	12700	11100
	1944	18000	4570	13700	11300	4940	14800	12900
	2185	18000	5140	15400	12700	5550	16600	14600
	2427	18000	5710	17100	14100	6160	18500	16200
FA157R97 	2780	18000	6460	19300	16000	6980	20900	18300
	4130	18000	9600	28800	23800	10300	31100	27200
	4831	18000	11200	33700	27800	12100		31900
	5404	18000	12500		31100	13500		35600
	6295	18000	14600			15800		
	7075	18000	16400			17700		
	8026	18000	18600			20100		
	9021	18000	20900			22600		
	10033	18000	23300			25100		
	12235	18000	28400			30700		
	13751	18000	31900			34500		
	16358	18000						
	17984	18000						
	20212	18000						
	23464	18000						
	26173	18000						
	31434	18000						

m [kg]		DRM	
	s	132S12	132M12
FA157R97		760	780
FA157R97		770	780
FAF: + 58.6 kg / F: + 20.6 kg / FF: + 127.5 kg			





11 K..DRM – 60 Hz

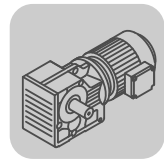
11.1 K..DRM

K 37

	M_a [Nm]		DRM														
	i	M_{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
K37 	3.98	125	2.3	6.9	5.8	2.7	8.1	8.1	4.2	13	12	7.3	22	17	8.1	24	23
	5.36	140	3.1	9.3	7.8	3.6	11	11	5.7	17	17	9.8	29	23	11	33	30
	6.37	145	3.7	11	9.2	4.3	13	13	6.8	20	20	12	35	28	13	39	36
	6.80	150	3.9	12	9.8	4.6	14	14	7.2	22	21	12	37	30	14	41	39
	7.96	155	4.6	14	12	5.4	16	16	8.4	25	25	15	44	35	16	48	45
	8.91	160	5.2	15	13	6.0	18	18	9.5	28	27	16	49	39	18	54	51
	10.49	160	6.1	18	15	7.1	21	21	11	33	32	19	58	46	21	64	60
	12.14	160	7.0	21	18	8.2	25	25	13	39	37	22	67	53	25	74	69
	13.08	165	7.6	23	19	8.8	26	26	14	42	40	24	72	57	26	79	74
	15.31	175	8.9	27	22	10	31	31	16	49	47	28	84	66	31	93	87
	17.15	180	9.9	30	25	12	35	35	18	55	53	31	94	74	35	104	98
	20.19	185	12	35	29	14	41	41	21	64	62	37	111	88	41	123	115
	23.36	195	14	41	34	16	47	47	25	74	72	43	128	101	47	142	133
	24.99	200	14	43	36	17	51	51	27	80	77	46	137	108	51	152	142
	28.83	200	17	50	42	19	58	58	31	92	89	53	158	125	58	175	164
	29.96	200	17	52	43	20	61	61	32	95	92	55	165	130	61	182	170
	35.57	200	21	62	51	24	72	72	38	113	110	65	196	154	72	215	200
	37.97	200	22	66	55	26	77	77	40	121	117	70	205	165	77	230	215
	44.46	200	26	77	64	30	90	90	47	141	137	81	240	193	90	270	250
	49.79	200	29	86	72	34	101	101	53	158	154	91	270	215	101	300	280
	58.60	200	34	102	85	40	119	119	62	187	181	107	320	250	119	355	330
	67.80	200	39	118	98	46	137	137	72	215	205	124	370	290	137		385
	72.54	200	42	126	105	49	147	147	77	230	220	133	395	310	147		
	83.69	200	48	145	121	56	169	169	89	265	255	153		360	169		
	97.81	200	57	170	141	66	198	198									
	106.38	200	62	185	154	72	215	215									

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
K37		19	20	29	37	40
KF: + 2.3 kg / KA: + -0.2 kg / KAF: + 1.5 kg						


 →  15

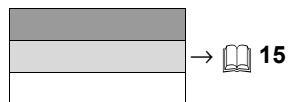


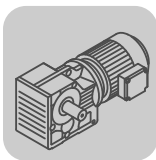
K 37R17

M_a [Nm]			DRM					
i	M_{amax}	[Nm]	S1	71S12	S1	S1	71M12	S1
			0.6	S3	/V	0.7	S3	/V
				1.8	1.5		2.1	2.1
K37R17  3  2	96	200	54	163	136	63	190	190
	110	200	62	186	155	72	215	215
	127	200	72	215	179	84	250	250
	136	200	77	230	192	90	265	265
	160	200	90	270	225	105	315	315
	181	200	102	305	255	119	355	355
	205	200	116	345	285	135		
	234	200	132	395	330	154		
	267	200	151		375	176		
	304	200	172			200		
	346	200	195			225		
	396	200	220			260		
	451	200	250			295		
	512	200	285			335		
	585	200	330			385		
	671	200	375					

m [kg]		DRM	
s		71S12	71M12
K37R17  3  2		21	23
K37R17  3  3		21	23

KF: + 2.3 kg / KA: + -0.2 kg / KAF: + 1.5 kg

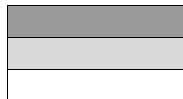


**K 47**

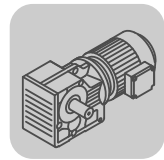
M_a [Nm]			DRM														
i	M_{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
K47 	4.64	205							4.9	15	14	8.5	26	20	9.4	28	26
	5.81	230	3.4	10	8.4	3.9	12	12	6.2	18	18	11	32	25	12	35	33
	6.58	240	3.8	11	9.5	4.4	13	13	7.0	21	20	12	36	29	13	40	37
	7.36	250	4.3	13	11	5.0	15	15	7.8	23	23	13	40	32	15	45	42
	8.56	270	5.0	15	12	5.8	17	17	9.1	27	26	16	47	37	17	52	49
	9.10	280	5.3	16	13	6.1	18	18	9.7	29	28	17	50	39	18	55	52
	10.56	280	6.1	18	15	7.1	21	21	11	34	33	19	58	46	21	64	60
	11.77	280	6.8	20	17	7.9	24	24	12	37	36	22	65	51	24	72	67
	12.19	350	7.1	21	18	8.2	25	25	13	39	38	22	67	53	25	74	69
	13.65	360	7.9	24	20	9.2	28	28	14	43	42	25	75	59	28	83	78
	15.86	380	9.2	28	23	11	32	32	17	50	49	29	87	69	32	96	90
	16.86	380	9.8	29	24	11	34	34	18	54	52	31	93	73	34	102	96
	19.58	400	11	34	28	13	40	40	21	62	60	36	108	85	40	119	111
	21.81	400	13	38	32	15	44	44	23	69	67	40	120	95	44	133	124
	24.06	400	14	42	35	16	49	49	26	77	74	44	132	104	49	146	137
	25.91	400	15	45	37	17	52	52	27	82	80	47	142	112	52	157	147
	29.32	400	17	51	42	20	59	59	31	93	90	54	161	127	59	178	167
	31.30	400	18	54	45	21	63	63	33	100	97	57	172	136	63	190	178
	35.39	400	20	61	51	24	72	72	38	113	109	65	195	154	72	215	200
	39.61	400	23	69	57	27	80	80	42	126	122	73	215	172	80	240	225
	46.03	400	27	80	67	31	93	93	49	146	142	84	250	200	93	275	260
	48.95	400	28	85	71	33	99	99	52	156	151	90	265	210	99	295	275
	56.83	400	33	99	82	38	115	115	60	181	175	104	310	245	115	345	320
	63.30	400	37	110	92	43	128	128	67	200	195	116	345	270	128	380	360
	69.84	400	40	121	101	47	141	141	74	220	215	128	380	300	141	420	395
	75.20	400	44	131	109	51	152	152	80	235	230	138	410	325	152	455	425
	85.12	400	49	148	123	57	172	172	90	270	260	156	465	365	172	515	480
	90.86	400	53	158	131	61	184	184	96	285	280	166	495	390	184	550	515
	104.37	400	60	181	151	70	210	210	111	330	320	191	570	450	210	630	590
	121.48	400	70	210	176	82	245	245									
	131.87	400	76	225	191	89	265	265									

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
K47		25	26	36	43	46	

KF: + 3.2 kg / KA: + -0.9 kg / KAF: + 2.0 kg



→ 15



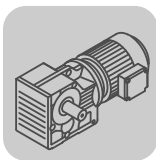
K 47R37

M _a [Nm]			DRM														
i	M _{amax} [Nm]		71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
K47R37  3  2	94	400	53	159	133	62	186	186	97	290	280	168	500	395	186	555	520
	99	400	56	168	140	65	196	196	103	305	295	177	530	415	196	585	545
	112	400	63	190	158	74	220	220	116	345	335	200	600	470	220	660	620
	131	400	74	220	185	86	255	255	136	405	390	230	700	550	255	775	725
	153	400	86	255	215	101	300	300	158	475	460	270		645	300		
	171	400	97	285	240	113	335	335	177	530	515	305		720	335		
	198	400	112	335	275	130	390	390	205	615	595	350			390		
	225	400	127	380	315	148	440	440	230	695	675	400			440		
	256	400	145	430	360	169	505	505	265	795	770	455			505		
	289	400	163	485	405	190	570	570	295			515			570		
	327	400	185	550	460	215	645	645	335			580			645		
	375	400	210	635	525	245	740	740	385			670			740		
	426	400	240	720	600	280			440			760					
	495	400	275		695	325			510								
	552	400	310		775	360			570								
	639	400	360			420			660								
	718	400	405			470			740								
	831	400	465			545											
	945	400	530			620											
	1097	400	615			720											
	1222	400	690														
K47R37  3  3	1388	400	770														

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
K47R37  3  2		36	37	46	54	57	
K47R37  3  3		36	37	46	54	57	

KF: + 3.2 kg / KA: + -0.9 kg / KAF: + 2.0 kg



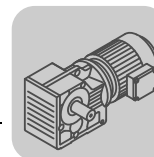

K 57

	M_a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M_{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
K57  3	4.69	300							5.0	15	14	8.6	26	20	9.5	28	27
	6.57	345							7.0	21	20	12	36	29	13	40	37
	7.55	365	4.4	13	11	5.1	15	15	8.0	24	23	14	42	33	15	46	43
	8.71	390	5.0	15	13	5.9	18	18	9.2	28	27	16	48	38	18	53	50
	9.59	405	5.5	17	14	6.5	19	19	10	31	30	18	53	42	19	58	55
	11.26	415	6.5	20	16	7.6	23	23	12	36	35	21	62	49	23	68	64
	11.92	415	6.9	21	17	8.0	24	24	13	38	37	22	66	52	24	72	68
	13.25	510							14	42	41	24	73	58	27	81	75
	15.22	535	8.8	26	22	10	31	31	16	48	47	28	84	66	31	92	87
	17.57	555	10	31	25	12	36	36	19	56	54	32	97	76	36	107	100
	19.34	575	11	34	28	13	39	39	21	62	60	35	106	84	39	118	110
	22.71	600	13	39	33	15	46	46	24	72	70	42	125	99	46	138	129
	24.05	600	14	42	35	16	49	49	26	77	74	44	132	104	49	146	137
	27.34	600	16	47	40	18	55	55	29	87	84	50	150	119	55	166	156
	30.28	600	18	53	44	20	61	61	32	96	93	55	166	131	61	184	172
	35.70	600	21	62	52	24	72	72	38	114	110	65	196	155	72	215	200
	38.49	600	22	67	56	26	78	78	41	122	119	71	210	167	78	230	215
	44.43	600	26	77	64	30	90	90	47	141	137	81	240	193	90	265	250
	48.89	600	28	85	71	33	99	99	52	156	151	90	265	210	99	295	275
	57.42	600	33	100	83	39	116	116	61	183	177	105	315	245	116	345	325
	60.81	600	35	106	88	41	123	123	65	194	188	111	330	260	123	365	345
	69.12	600	40	120	100	47	140	140	73	215	210	127	375	295	140	415	390
	76.56	600	44	133	111	52	155	155	81	240	235	140	420	330	155	465	435
	90.26	600	52	157	131	61	183	183	96	285	275	165	495	390	183	545	510
	102.88	600	60	179	149	69	205	205	109	325	315	189	565	445	205	625	585
	108.29	600	63	188	157	73	215	215	115	340	330	198	595	465	215	655	615
	123.85	600	72	215	179	84	250	250	131	390	380	225	680	535	250	750	700
	145.14	600	84	250	205	98	290	290									

m [kg]		71S12	71M12	DRM 90M12	100M12	100L12
K57	 3	31	32	42	49	52
KF: + 4.7 kg / KA: + -2.1 kg / KAF: + 3.6 kg						



→ 15



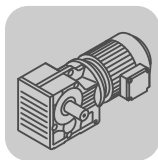
K 57R37

M _a [Nm]			DRM														
i	M _{amax} [Nm]		71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
K57R37 	97	600	55	164	137	64	192	192	100	300	290	174	520	410	192	575	535
	111	600	63	188	157	73	215	215	115	340	330	199	595	470	215	655	615
	129	600	73	215	182	85	255	255	134	400	385	230	690	545	255	765	715
	145	600	82	245	200	96	285	285	150	450	435	255	775	610	285	850	800
	166	600	94	280	230	109	325	325	172	515	500	295	890	700	325	980	920
	192	600	108	325	270	127	375	375	199	595	575	340	1030	810	375	1130	1060
	215	600	121	360	300	142	425	425	220	665	645	380	1150	910	425		1190
	246	600	139	415	345	162	485	485	250	760	740	440		1040	485		
	280	600	158	470	395	185	550	550	285	860	840	500		1180	550		
	319	600	180	540	450	210	630	630	330	990	960	570			630		
	362	600	200	610	510	235	715	715	370	1120	1090	645			715		
	421	600	235	710	590	275	830	830	435			750			830		
	473	600	265	800	665	310	930	930	485			840			930		
	544	600	305	920	765	355	1070	1070	560			970			1070		
	615	600	345	1040	860	405			635			1100					
	699	600	390	1180	980	460			720								
	806	600	455		1130	530			830								
	906	600	510			595			930								
	1036	600	585			680			1070								
	1174	600	660			770											
	1354	600	760			890											
	1539	600	860			1010											
	1743	600	980			1140											
K57R37 	1986	600	1100														

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
K57R37 		42	43	52	59	62	
K57R37 		42	43	52	60	63	
KF: + 4.7 kg / KA: + -2.1 kg / KAF: + 3.6 kg							



→ 15

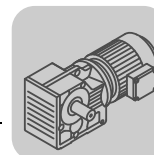

K 67

M_a [Nm]			DRM														
i	M_{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
K67 	5.20	350							5.5	17	16	9.5	29	23	11	32	30
	7.28	420							7.7	23	22	13	40	32	15	44	41
	8.37	440	4.8	15	12	5.7	17	17	8.9	27	26	15	46	36	17	51	48
	9.66	480	5.6	17	14	6.5	20	20	10	31	30	18	53	42	20	59	55
	10.63	500	6.2	18	15	7.2	22	22	11	34	33	19	58	46	22	65	60
	12.48	530	7.2	22	18	8.4	25	25	13	40	39	23	69	54	25	76	71
	13.22	670							14	42	41	24	73	57	27	80	75
	15.19	700	8.8	26	22	10	31	31	16	48	47	28	84	66	31	92	86
	17.54	740	10	30	25	12	36	36	19	56	54	32	96	76	36	107	100
	19.30	760	11	34	28	13	39	39	20	61	60	35	106	84	39	117	110
	22.66	780	13	39	33	15	46	46	24	72	70	42	125	98	46	138	129
	24.00	800	14	42	35	16	49	49	25	76	74	44	132	104	49	146	137
	27.28	820	16	47	39	18	55	55	29	87	84	50	150	118	55	166	155
	30.22	820	17	52	44	20	61	61	32	96	93	55	166	131	61	184	172
	35.62	820	21	62	52	24	72	72	38	113	110	65	196	155	72	215	200
	38.39	800	22	67	56	26	78	78	41	122	118	70	210	167	78	230	215
	44.32	820	26	77	64	30	90	90	47	141	137	81	240	192	90	265	250
	48.77	820	28	85	71	33	99	99	52	155	151	89	265	210	99	295	275
	57.28	820	33	99	83	39	116	116	61	182	177	105	310	245	116	345	325
	60.66	820	35	105	88	41	123	123	64	193	187	111	330	260	123	365	345
	68.95	820	40	120	100	47	140	140	73	215	210	126	375	295	140	415	390
	76.37	820	44	133	110	52	155	155	81	240	235	140	415	330	155	460	430
	90.04	820	52	156	130	61	182	182	96	285	275	165	490	390	182	545	510
	102.62	820	59	178	148	69	205	205	109	325	315	188	560	445	205	620	580
	108.03	820	63	188	156	73	215	215	115	340	330	198	590	465	215	655	610
	123.54	820	71	210	179	83	250	250	131	390	380	225	675	535	250	750	700
	144.79	820	84	250	205	98	290	290									

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
K67		36	38	48	55	58
KF: + 5.6 kg / KA: + -2.7 kg / KAF: + 3.0 kg						



→ 15

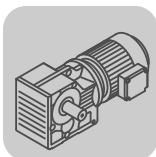


K 67R37

M _a [Nm]			DRM														
i	M _{amax} [Nm]		71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
K67R37  3  2	122	820	69	205	172	80	240	240	126	375	365	215	650	515	240	720	675
	144	820	81	240	200	95	280	280	149	445	430	255	770	610	280	850	795
	166	820	94	280	230	109	325	325	172	515	500	295	890	700	325	980	920
	191	820	108	320	265	126	375	375	198	590	575	340	1020	800	375	1130	1060
	217	820	123	365	305	143	425	425	220	670	650	385	1160	910	425	1280	1200
	246	820	139	415	345	162	485	485	250	760	740	440	1320	1040	485	1450	1360
	279	820	158	470	390	184	550	550	285	860	840	495	1490	1180	550		1540
	323	820	182	545	455	210	635	635	330	1000	970	575		1360	635		
	361	820	200	610	505	235	710	710	370	1120	1080	645		1520	710		
	420	820	235	710	590	275	830	830	430	1300	1260	750			830		
	471	820	265	795	665	310	930	930	485	1460	1410	840			930		
	542	820	305	910	765	355	1070	1070	560		1630	960			1070		
	613	820	345	1030	860	400	1210	1210	630			1090			1210		
	697	820	390	1180	980	455	1370	1370	720			1240			1370		
	793	820	445	1340	1110	520	1560	1560	820			1410			1560		
	903	820	510	1530	1270	595			930			1610					
	1034	820	580		1460	680			1070								
	1171	820	660			770			1210								
	1351	820	760			890			1390								
	1535	820	860			1010			1580								
	1739	820	980			1140											
K67R37  3  3	1981	820	1100			1280											
	2244	820	1250			1460											
	2532	820	1410														
	2917	820	1620														

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
K67R37	 3  2	47	48	58	65	68
K67R37	 3  3	48	49	58	66	68
KF: + 5.6 kg / KA: + -2.7 kg / KAF: + 3.0 kg						



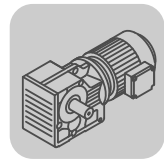

K 77

	M _a [Nm]		DRM																							
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12			132S12			132M12					
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V			
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9	2.5	7.5	6.2	2.7	8.1	7.1			
K77  3	7.24	820							7.7	23	22	13	40	31	15	44	41	17	52	43	19	57	50			
	8.48	890							9.0	27	26	16	47	37	17	52	48	20	61	51	22	66	58			
	9.56	940							10	30	30	18	53	41	19	58	54	23	69	57	25	75	65			
	10.84	990	6.3	19	16	7.3	22	22	11	34	33	20	60	47	22	66	62	26	78	65	28	85	74			
	12.36	1000	7.2	21	18	8.3	25	25	13	39	38	23	68	54	25	75	70	30	89	74	32	97	85			
	13.52	1340							14	43	42	25	74	59	27	82	77	33	98	81	35	106	93			
	15.84	1400							17	50	49	29	87	69	32	96	90	38	115	95	41	124	108			
	17.87	1450							19	57	55	33	98	78	36	109	102	43	129	107	47	140	122			
	20.25	1500	12	35	29	14	41	41	21	64	62	37	111	88	41	123	115	49	146	121	53	158	139			
	23.08	1550	13	40	33	16	47	47	24	73	71	42	127	100	47	140	131	56	167	138	60	180	158			
	25.62	1550	15	44	37	17	52	52	27	82	79	47	141	111	52	156	146	62	185	153	67	200	175			
	29.27	1550	17	51	42	20	59	59	31	93	90	54	161	127	59	178	167	71	210	175	76	225	200			
	30.89	1550	18	54	45	21	63	63	33	98	95	57	170	134	63	188	176	74	220	185	80	240	210			
	35.20	1550	20	61	51	24	71	71	37	112	109	65	194	153	71	210	200	85	250	210	92	270	240			
	38.39	1500	22	67	56	26	78	78	41	122	118	70	210	167	78	230	215	93	275	225	100	295	260			
	40.04	1550							42	127	124	73	220	174	81	240	225	97	285	235	104	310	270			
	45.16	1550							48	144	139	83	245	196	91	270	255	109	325	270	118	350	305			
	51.18	1550	30	89	74	35	104	104	54	163	158	94	280	220	104	310	290	123	370	305	133	395	350			
	58.34	1550	34	101	84	39	118	118	62	186	180	107	320	250	118	350	330	141	420	345	152	455	395			
	64.75	1550	37	112	94	44	131	131	69	205	200	119	355	280	131	390	365	156	465	385	169	505	440			
	73.99	1550	43	128	107	50	150	150	78	235	225	136	405	320	150	445	420	178	535	440	193	575	505			
	78.07	1550	45	136	113	53	158	158	83	245	240	143	425	335	158	470	440	188	560	465	200	605	530			
	88.97	1550	51	154	129	60	180	180	94	280	270	163	485	385	180	540	505	210	640	530	230	695	605			
	97.05	1550	56	168	140	66	197	197	103	305	295	178	530	420	197	585	550	230	700	580	250	755	660			
	113.56	1550	66	197	164	77	225	225	120	360	350	205	620	490	225	685	645	270	820	675	295	880	775			
	128.52	1550	74	220	186	87	260	260	136	405	395	235	705	555	260	780	730	305	920	765	330	1000	880			
	135.28	1550	78	230	196	91	270	270	144	430	415	245	740	585	270	820	765	325	970	800	350	1050	920			
	154.02	1550	89	265	220	104	310	310	163	490	475	280	840	665	310	930	870									
	179.37	1450	104	310	255	121	360	360																		
	192.18	1450	111	330	275	130	385	385																		

m [kg]		DRM							
s		71S12	71M12	90M12	100M12	100L12	132S12	132M12	
K77		62	64	72	80	83	98	110	
KF: + 8.3 kg / KA: + 7.5 kg / KAF: + 0.4 kg									



→ 15

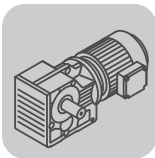


K 77R37

M _a [Nm]			DRM														
i	M _{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
K77R37 	154	1550	87	260	215	101	300	300	159	475	460	275	820	650	300	910	850
	175	1550	99	295	245	115	345	345	181	540	525	310	930	740	345	1030	970
	195	1550	110	330	275	129	385	385	200	605	585	345	1040	820	385	1150	1080
	221	1550	125	370	310	146	435	435	225	685	665	395	1180	930	435	1310	1220
	252	1550	142	425	355	166	495	495	260	780	755	450	1350	1060	495	1490	1390
	290	1550	164	490	405	191	570	570	300	900	870	515	1550	1220	570	1710	1610
	328	1550	185	555	460	215	645	645	335	1010	980	585	1760	1380	645	1940	1820
	367	1550	205	620	515	240	725	725	380	1140	1100	655	1960	1550	725	2170	2030
	428	1550	240	725	600	280	840	840	440	1320	1280	765	2290	1810	840	2530	2370
	485	1550	270	820	680	315	950	950	500	1500	1460	860	2600	2050	950	2870	2690
	552	1550	310	930	775	360	1090	1090	570	1710	1660	980	2960	2330	1090		3060
	622	1550	350	1050	870	405	1220	1220	640	1930	1870	1110		2630	1220		
	709	1550	400	1200	1000	465	1400	1400	730	2200	2130	1260		3000	1400		
	815	1550	460	1380	1150	535	1610	1610	840	2530	2450	1450			1610		
	924	1550	520	1560	1300	605	1820	1820	950	2870	2780	1650			1820		
	1053	1550	590	1780	1480	690	2080	2080	1090			1880			2080		
	1218	1550	685	2060	1710	800	2400	2400	1260			2170			2400		
	1388	1550	780	2350	1960	910	2740	2740	1430			2480			2740		
	1514	1550	850	2560	2130	990	2990	2990	1560			2700			2990		
	1772	1550	1000	3000	2500	1160			1830								
	2050	1550	1150		2890				2120								
K77R37 	2370	1550	1320			1540			2420								
	2717	1550	1510			1760			2770								
	2901	1550	1610			1880			2960								
	3485	1550	1940			2260											
	3961	1550	2210			2570											
	4489	1550	2500			2920											
	5089	1550	2840														

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
K77R37 		71	72	81	89	92	
K77R37 		71	72	82	89	92	
KF: + 8.3 kg / KA: + 7.5 kg / KAF: + 0.4 kg							




K 87

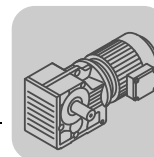
M _a [Nm]			DRM																	
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9	2.5	7.5	6.2	2.7	8.1	7.1
K87 3	11.17	1500				12	36	34	20	61	48	23	68	64	27	81	67	29	87	76
	16.00	1800	11	32	32	17	51	49	29	88	69	32	97	91	39	116	96	42	125	110
	19.45	2300				21	62	60	36	107	84	39	118	111	47	141	116	51	152	133
	22.41	2300				24	71	69	41	123	97	45	136	128	54	162	134	58	175	153
	24.92	2500				26	79	77	46	137	108	50	151	142	60	180	149	65	195	171
	27.88	2600	19	56	56	30	89	86	51	153	121	56	169	159	67	200	167	73	215	191
	31.39	2700	21	64	64	33	100	97	58	173	136	64	191	179	76	225	188	82	245	210
	49.16	2700				52	156	152	90	270	210	100	295	275	119	355	290	128	380	335
	56.64	2700				60	180	175	104	310	245	115	340	320	137	405	335	147	440	385
	63.00	2700				67	200	194	115	345	270	128	380	355	152	455	375	164	490	430
	70.46	2700	48	143	143	75	220	215	129	385	305	143	425	400	170	505	420	183	550	480
	79.34	2700	54	161	161	84	250	240	145	435	340	161	480	450	191	570	470	205	615	540
	86.34	2700	58	175	175	92	270	265	158	470	370	175	520	490	205	620	515	220	670	590
	102.71	2700	69	205	205	109	325	315	188	560	445	205	620	580	245	740	610	265	800	700
	115.82	2700	78	230	230	123	365	355	210	635	500	230	700	655	275	830	690	300	900	790
	126.91	2700	86	255	255	135	400	390	230	695	550	255	770	720	305	910	755	330	990	860
	147.32	2700	99	295	295	156	465	450	265	800	635	295	890	830	355	1060	880	380	1150	1000
164.34	2700	111	330	330	174	520	505	300	900	710	330	990	930	395	1180	980	425	1280	1120	
174.19	2700	118	350	350	185	550	535	315	950	755	350	1050	990	415	1250	1040	450	1360	1190	
197.37	2700	133	395	395	205	625	605	360	1080	850	395	1190	1120							

m [kg]		DRM												
	s	71M12			90M12		100M12		100L12		132S12		132M12	
K87	3	99			110		115		120		135		145	

KF: + 9.2 kg / KA: + -12.1 kg / KAF: + 1.1 kg



→ 15



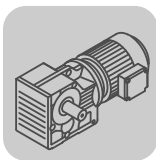
K 87R57

M _a [Nm]			DRM														
i	M _{amax} [Nm]		71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
K87R57 	141	2600	80	235	199	93	275	275	146	435	420	250	755	595	275	830	780
	159	2700	90	265	220	105	310	310	165	490	475	280	850	670	310	940	880
	183	2700	103	310	255	121	360	360	190	565	550	325	980	775	360	1080	1010
	201	2700	114	340	280	132	395	395	205	620	605	355	1070	850	395	1190	1110
	236	2700	133	395	330	156	465	465	240	730	710	420	1260	990	465	1390	1310
	250	2700	141	420	350	165	490	490	255	775	750	445	1340	1050	490	1480	1380
	294	2700	166	495	415	194	580	580	300	910	880	525	1570	1240	580	1740	1630
	330	2700	186	555	465	215	650	650	340	1020	990	590	1770	1390	650	1950	1830
	373	2700	210	630	525	245	735	735	385	1150	1120	665	2000	1580	735	2210	2070
	426	2700	240	720	600	280	840	840	440	1320	1280	760	2280	1800	840	2520	2360
	474	2700	265	800	665	310	930	930	490	1470	1420	840	2540	2000	930	2810	2630
	562	2700	315	950	790	370	1110	1110	580	1740	1690	1000	3010	2380	1110	3330	3120
	638	2700	360	1080	900	420	1260	1260	660	1980	1920	1140	3420	2700	1260	3780	3540
	726	2700	410	1230	1020	475	1430	1430	750	2250	2180	1290	3890	3070	1430	4300	4030
	837	2700	470	1410	1180	550	1650	1650	860	2600	2520	1490	4490	3540	1650	4960	4640
	951	2700	535	1610	1340	625	1880	1880	980	2950	2860	1700	5100	4020	1880		5280
	1078	2700	605	1820	1520	710	2130	2130	1110	3340	3240	1920		4560	2130		
	1229	2700	690	2080	1730	800	2420	2420	1270	3810	3700	2190		5200	2420		
	1415	2700	795	2390	1990	930	2790	2790	1460	4390	4260	2530			2790		
	1657	2700	930	2800	2330	1090	3270	3270	1710	5140	4990	2960			3270		
	1854	2700	1040	3140	2610	1220	3660	3660	1910			3310			3660		
	2088	2700	1170	3530	2940	1370	4120	4120	2160			3730			4120		
K87R57 	2371	2700	1320	3960	3300	1540	4630	4630	2420			4190			4630		
	2728	2700	1520	4560	3800	1770	5320	5320	2790			4820			5320		
	3107	2700	1730	5200	4330	2020			3170								
	3609	2700	2010		5030	2340			3690								
	4037	2700	2250			2620			4130								
	4562	2700	2540			2970			4660								
	5240	2700	2920			3410			5360								
	5930	2700	3300			3860											
	6832	2700	3810			4440											
	7854	2700	4380			5110											
	9073	2700	5060														

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
K87R57		115	115	125	135	135
K87R57		115	120	130	135	140
KF: + 9.2 kg / KA: + -12.1 kg / KAF: + 1.1 kg						



→ 15

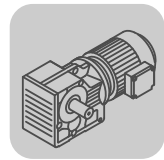

K 97

M_a [Nm]			DRM														
i	M_{amax}	[Nm]	90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9	2.5	7.5	6.2	2.7	8.1	7.1
K97 	24.75	4300	26	79	76	45	136	107	50	150	141	60	179	148	64	193	169
	27.91	4300	30	89	86	51	153	121	57	170	159	67	200	167	73	215	191
	30.82	4300	33	98	95	56	169	134	62	187	175	74	220	184	80	240	210
	34.23	4300	36	109	106	63	188	149	69	205	195	83	245	200	89	265	230
	38.30	4300	41	122	118	70	210	166	78	230	215	92	275	225	100	295	260
	62.55	4300	66	199	193	115	340	270	127	380	355	151	450	370	163	485	425
	70.54	4300	75	220	215	129	385	305	143	425	400	170	510	420	184	550	480
	77.89	4300	83	245	240	143	425	335	158	470	440	188	560	465	200	605	530
	86.52	4300	92	275	265	159	475	375	175	525	490	205	625	515	225	675	590
	96.80	4300	103	305	295	177	530	420	196	585	550	230	700	575	250	755	660
	105.13	4300	112	330	320	193	575	455	210	635	595	250	760	625	270	820	715
	123.93	4300	131	390	380	225	680	535	250	750	705	295	890	740	320	960	840
	140.28	4300	149	445	430	255	770	605	280	850	795	335	1010	830	365	1090	960
	153.21	4300	163	485	470	280	840	660	310	930	870	365	1100	910	395	1190	1040
	176.05	4300	187	560	540	320	960	760	355	1060	1000	420	1270	1050	455	1370	1200

m [kg]		DRM					
s		90M12	100M12	100L12	132S12	132M12	
K97		170	175	180	195	205	
KF: + 20.1 kg / KA: + -18.2 kg / KAF: + 6.7 kg							



→ 15



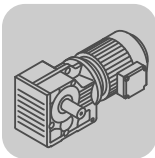
K 97R57

M _a [Nm]			DRM														
i	M _{amax} [Nm]		71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
K97R57 	199	4300	112	335	280	131	390	390	205	615	595	355	1060	840	390	1180	1100
	232	4300	131	390	325	153	455	455	240	720	695	410	1240	980	455	1370	1280
	258	4300	146	435	360	170	510	510	265	800	775	460	1380	1090	510	1530	1430
	305	4300	172	515	430	200	600	600	315	940	910	545	1630	1290	600	1800	1690
	342	4300							350	1060	1030	610	1830	1440	675	2020	1890
	382	4300	215	645	535	250	755	755	395	1180	1150	680	2040	1610	755	2260	2120
	437	4300	245	740	615	285	860	860	450	1350	1310	780	2340	1850	860	2590	2420
	504	4300	280	850	710	330	990	990	520	1560	1510	900	2700	2130	990	2980	2790
	573	4300	320	970	800	375	1130	1130	590	1780	1720	1020	3070	2420	1130	3390	3180
	652	4300	365	1100	920	425	1280	1280	675	2020	1960	1160	3490	2760	1280	3860	3620
	743	4300	415	1250	1040	485	1460	1460	765	2300	2230	1320	3980	3140	1460	4400	4120
	855	4300	480	1440	1200	560	1690	1690	880	2650	2570	1520	4580	3620	1690	5070	4740
	957	4300	540	1620	1350	630	1890	1890	990	2970	2880	1710	5130	4050	1890	5670	5310
	1102	4300	620	1860	1550	725	2170	2170	1140	3420	3310	1970	5910	4660	2170	6530	6120
	1261	4300	710	2130	1780	830	2490	2490	1300	3910	3790	2250	6760	5340	2490	7470	7000
	1430	4300	800	2420	2010	940	2820	2820	1480	4440	4300	2550	7670	6050	2820	8480	7940
	1625	4300	910	2750	2290	1070	3210	3210	1680	5040	4890	2900		6880	3210		
	1856	4300	1040	3140	2620	1220	3660	3660	1920	5760	5590	3310		7860	3660		
	2123	4300	1190	3590	2990	1390	4190	4190	2190	6590	6390	3790			4190		
	2419	4300	1360	4090	3410	1590	4780	4780	2500	7510	7280	4320			4780		
K97R57 	2757	4300	1530	4610	3840	1790	5380	5380	2820	8460	8200	4870			5380		
	3108	4300	1730	5200	4330	2020	6070	6070	3170			5490			6070		
	3583	4300	1990	5990	4990	2330	6990	6990	3660			6330			6990		
	4082	4300	2270	6830	5690	2650	7970	7970	4170			7210			7970		
	4669	4300	2600	7810	6510	3030			4770			8250					
	5391	4300	3000		7520	3510			5510								
	6027	4300	3360		8400	3920			6160								
	6970	4300	3880			4530			7130								
	8054	4300	4490			5240			8240								
	9083	4300	5060			5910											
	10317	4300	5750			6710											
	11677	4300	6510			7600											
	13182	4300	7350			8580											
	14897	4300	8310														

m [kg]		DRM														
K97R57	s	71S12			71M12			90M12			100M12			100L12		
		175			175			185			190			195		
K97R57		175			175			185			195			195		
KF: + 20.1 kg / KA: + 18.2 kg / KAF: + 6.7 kg																



→ 15


K 107R77

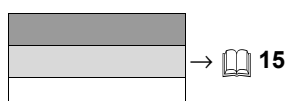
	M_a [Nm]		DRM														
	i	M_{amax}	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
K107R77 	140	7200							145	430	420	250	750	590	275	830	775
	154	7200							159	475	460	275	820	650	300	910	850
	174	7200							180	540	520	310	930	735	340	1030	960
	196	8000							200	605	590	350	1050	830	385	1160	1080
	222	8000							225	685	665	395	1190	940	435	1310	1230
	251	8000	142	425	350	165	495	495	255	775	755	445	1340	1060	495	1480	1390
	286	8000	162	480	400	188	565	565	295	880	860	510	1530	1210	565	1690	1580
	318	8000	180	535	445	205	625	625	325	980	950	565	1700	1340	625	1880	1760
	364	8000	205	615	510	235	715	715	375	1130	1090	650	1950	1540	715	2150	2020
	408	8000							420	1260	1220	725	2180	1720	800	2410	2260
	461	8000							475	1430	1380	820	2470	1950	910	2730	2560
	522	8000	290	880	735	340	1030	1030	540	1620	1570	930	2800	2210	1030	3090	2890
	615	8000	345	1040	860	405	1210	1210	635	1910	1850	1100	3300	2600	1210	3640	3410
	696	8000	390	1170	980	455	1370	1370	720	2160	2090	1240	3730	2940	1370	4120	3860
	793	8000	445	1340	1110	520	1560	1560	820	2460	2380	1410	4250	3350	1560	4700	4400
	904	8000	510	1530	1270	595	1780	1780	930	2800	2720	1610	4850	3820	1780	5360	5020
	1030	8000	580	1740	1450	675	2030	2030	1060	3190	3100	1840	5520	4360	2030	6100	5720
	1166	8000	655	1970	1640	765	2300	2300	1200	3620	3510	2080	6250	4930	2300	6910	6470
	1336	8000	750	2260	1880	880	2640	2640	1380	4150	4020	2380	7160	5650	2640	7920	7420
	1554	8000	870	2630	2190	1020	3070	3070	1600	4820	4680	2770	8330	6580	3070	9210	8630
	1713	8000	960	2900	2410	1120	3380	3380	1770	5320	5160	3060	9190	7250	3380	10100	9510
K107R77 	1939	8000	1080	3240	2700	1260	3780	3780	1980	5950	5770	3420	10200	8110	3780	11300	10600
	2286	8000	1270	3820	3180	1480	4460	4460	2330	7010	6800	4030	12100	9560	4460	13300	12500
	2599	8000	1450	4350	3620	1690	5070	5070	2650	7970	7730	4590	13700	10800	5070	15200	14200
	2977	8000	1660	4980	4150	1930	5810	5810	3040	9130	8860	5260	15700	12400	5810		
	3358	8000	1870	5620	4680	2180	6550	6550	3430	10300	9990	5930		14000	6550		
	3810	8000	2120	6370	5310	2480	7440	7440	3890	11600	11300	6730		15900	7440		
	4359	8000	2430	7290	6080	2830	8510	8510	4450	13300	12900	7700			8510		
	5138	8000	2860	8600	7160	3340	10000	10000	5250	15700	15200	9080			10000		
	5662	8000	3150	9470	7890	3680	11000	11000	5790			10000			11000		
	6184	8000	3450	10300	8620	4020	12000	12000	6320			10900			12000		
	7270	8000	4050	12100	10100	4730	14200	14200	7430			12800			14200		
	8328	8000	4640	13900	11600	5420			8520			14700					
	9524	8000	5310	15900	13200	6200			9740								
	10677	8000	5950		14800	6950			10900								
	12211	8000	6810			7950			12400								
	14311	8000	7980			9310											

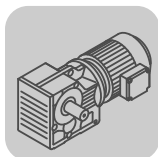
m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
K107R77 		300	300	310	320	320	
K107R77 		300	305	310	320	320	
KF: + 12.1 kg / KA: + 27.2 kg / KAF: + 3.2 kg							





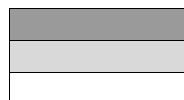
M _a [Nm]			DRM					
	i	M _{amax} [Nm]	S1	132S12 S3	S1 /V	S1	132M12 S3	S1 /V
			2.5	7.5	6.2	2.7	8.1	7.1
K107R77 	140	7200	325	980	810	355	1060	930
	154	7200	360	1080	890	390	1170	1020
	174	7200	405	1220	1010	440	1320	1160
	196	8000	460	1380	1140	495	1490	1310
	222	8000	520	1560	1290	560	1690	1480
	251	8000	590	1770	1460	635	1910	1670
	286	8000	670	2010	1660	725	2180	1910
	318	8000	745	2240	1850	800	2420	2120
	364	8000	850	2570	2120	920	2770	2430
	408	8000	960	2880	2380	1030	3110	2720
	461	8000	1080	3250	2690	1170	3510	3080
	522	8000	1220	3680	3040	1320	3980	3480
	615	8000	1440	4340	3580	1560	4680	4110
	696	8000	1630	4910	4060	1760	5300	4650
	793	8000	1860	5590	4620	2010	6040	5300
	904	8000	2120	6380	5270	2290	6890	6040
	1030	8000	2420	7270	6010	2610	7850	6880
	1166	8000	2740	8230	6800	2960	8890	7790
	1336	8000	3140	9430	7790	3390	10100	8920
	1554	8000	3650	10900	9070	3950	11800	10300
	1713	8000	4030	12000	9990	4350	13000	11400
K107R77 	1939	8000	4500	13500	11100	4860	14600	12800
	2286	8000	5310	15900	13100	5740		15000
	2599	8000	6040		14900	6520		
	2977	8000	6920			7470		
	3358	8000	7800			8430		
	3810	8000	8850			9560		
	4359	8000	10100			10900		
	5138	8000	11900			12900		
	5662	8000	13100			14200		
	6184	8000	14300			15500		
	7270	8000						
	8328	8000						
	9524	8000						
	10677	8000						
	12211	8000						
	14311	8000						
m [kg]			DRM					
	s		132S12			132M12		
K107R77		2	335			350		
K107R77		3	335			350		
KF: + 12.1 kg / KA: + -27.2 kg / KAF: + -3.2 kg								

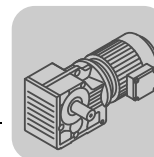



K 127R77

	M_a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M_{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
K127R77 	418	13000	235	705	590	275	820	820	430	1290	1250	745	2240	1770	820	2470	2320
	477	13000							490	1480	1430	850	2550	2020	940	2820	2640
	549	13000	310	930	775	360	1080	1080	565	1700	1650	980	2940	2320	1080	3250	3040
	610	13000	340	1030	860	400	1200	1200	630	1890	1830	1090	3270	2580	1200	3610	3380
	704	13000	395	1190	990	460	1390	1390	725	2180	2120	1250	3770	2980	1390	4170	3910
	790	13000							810	2450	2370	1410	4230	3340	1560	4680	4380
	899	13000	505	1520	1260	590	1770	1770	930	2790	2700	1600	4820	3800	1770	5330	4990
	1025	13000	575	1730	1440	675	2020	2020	1060	3180	3080	1830	5500	4340	2020	6070	5690
	1177	13000	660	1990	1660	775	2320	2320	1210	3650	3540	2100	6310	4980	2320	6980	6530
	1342	13000	755	2270	1890	880	2650	2650	1380	4160	4040	2400	7200	5680	2650	7950	7450
	1541	13000	870	2610	2170	1010	3040	3040	1590	4780	4640	2750	8260	6520	3040	9130	8550
	1757	13000	990	2970	2480	1150	3470	3470	1810	5450	5290	3140	9420	7440	3470	10400	9750
	1926	13000	1080	3260	2710	1260	3800	3800	1990	5980	5800	3440	10300	8150	3800	11400	10600
K127R77 	2268	13000							2320	6960	6750	4000	12000	9490	4430	13200	12400
	2607	13000	1450	4360	3630	1690	5090	5090	2660	8000	7750	4600	13800	10900	5090	15200	14300
	3009	13000	1670	5030	4190	1950	5870	5870	3070	9230	8950	5310	15900	12500	5870	17600	16500
	3311	13000	1840	5540	4610	2150	6460	6460	3380	10100	9850	5850	17500	13800	6460	19400	18100
	3889	13000	2170	6510	5420	2530	7590	7590	3970	11900	11500	6870	20600	16200	7590	22700	21300
	4423	13000	2460	7400	6170	2870	8630	8630	4520	13500	13100	7810	23400	18500	8630	25900	24200
	5027	13000	2800	8410	7010	3270	9810	9810	5140	15400	14900	8880		21000	9810		
	5804	13000	3230	9710	8090	3770	11300	11300	5930	17800	17200	10200		24200	11300		
	6565	13000	3660	10900	9150	4270	12800	12800	6710	20100	19500	11600			12800		
	7482	13000	4170	12500	10400	4870	14600	14600	7650	22900	22200	13200			14600		
	8443	13000	4710	14100	11700	5490	16400	16400	8630	25900	25100	14900			16400		
	9819	13000	5470	16400	13600	6390	19100	19100	10000			17300			19100		
	10915	13000	6090	18200	15200	7100	21300	21300	11100			19200			21300		
	12440	13000	6940	20800	17300	8090	24200	24200	12700			21900			24200		
	14975	13000	8350	25000	20800	9750			15300								
	16006	13000	8930		22300	10400											
	17550	13000	9790		24400	11400											

m [kg]		DRM						
	s	71S12	71M12	90M12	100M12	100L12	132S12	132M12
K127R77	 3  2	450	450	460	465	470	485	500
K127R77	 3  3	450	450	460	470	470	485	500
KF: + 42.3 kg / KA: + -28.2 kg / KAF: + 9.2 kg								

KF: + 42.3 kg / KA: + -28.2 kg / KAF: + 9.2 kg

 →  **15**

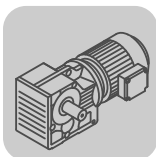


M_a [Nm]			DRM					
	i	M_{amax} [Nm]	S1	132S12 S3	S1 /V	S1	132M12 S3	S1 /V
			2.5	7.5	6.2	2.7	8.1	7.1
K127R77 	418	13000	980	2950	2430	1060	3180	2790
	477	13000	1120	3360	2780	1210	3630	3180
	549	13000	1290	3870	3200	1390	4180	3660
	610	13000	1430	4300	3560	1550	4650	4070
	704	13000	1650	4970	4100	1780	5360	4700
	790	13000	1850	5570	4610	2000	6020	5280
	899	13000	2110	6340	5240	2280	6850	6000
	1025	13000	2410	7230	5980	2600	7810	6850
	1177	13000	2770	8310	6860	2990	8970	7860
	1342	13000	3150	9470	7830	3410	10200	8970
	1541	13000	3620	10800	8990	3910	11700	10300
	1757	13000	4130	12400	10200	4460	13300	11700
	1926	13000	4530	13500	11200	4890	14600	12800
K127R77 	2268	13000	5270	15800	13000	5690	17000	14900
	2607	13000	6060	18100	15000	6540	19600	17200
	3009	13000	6990	20900	17300	7550	22600	19800
	3311	13000	7690	23000	19000	8310	24900	21800
	3889	13000	9040		22400	9760		25600
	4423	13000	10200		25500	11100		
	5027	13000	11600			12600		
	5804	13000	13400			14500		
	6565	13000	15200			16400		
	7482	13000	17300			18700		
	8443	13000	19600			21200		
	9819	13000	22800			24600		
	10915	13000	25300					
	12440	13000						
	14975	13000						
	16006	13000						
	17550	13000						

m [kg]		DRM	
	s	132S12	132M12
K127R77		485	500
K127R77		485	500
KF: + 42.3 kg / KA: + 28.2 kg / KAF: + 9.2 kg			



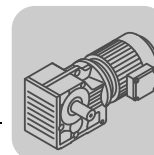
→ 15


K 127R87

M _a [Nm]			DRM																	
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12			132S12			132M12		
			S1 0.7	S3 2.1	S1 /V 2.1	S1 1.1	S3 3.3	S1 /V 3.2	S1 1.9	S3 5.7	S1 /V 4.5	S1 2.1	S3 6.3	S1 /V 5.9	S1 2.5	S3 7.5	S1 /V 6.2	S1 2.7	S3 8.1	S1 /V 7.1
K127R87  	330	13000				340	1020	990	590	1770	1390	650	1950	1830	775	2330	1920	830	2510	2200
	367	13000				380	1140	1100	655	1960	1550	725	2170	2030	860	2590	2140	930	2790	2450
	418	13000				430	1290	1250	745	2240	1770	820	2470	2320	980	2950	2430	1060	3180	2790
	536	13000				555	1660	1610	950	2870	2270	1050	3170	2970	1260	3780	3120	1360	4080	3580

m [kg]		DRM					
	s	71M12	90M12	100M12	100L12	132S12	132M12
K127R87	 3  2	480	485	495	500	510	530
KF: + 42.3 kg / KA: + 28.2 kg / KAF: + 9.2 kg							


 →  **15**



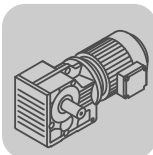
K 157R97

M _a [Nm]			DRM											
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
K157R97  3  2	504	18000				520	1560	1510	900	2700	2130	990	2980	2790
	567	18000				585	1760	1700	1010	3040	2400	1120	3360	3140
	854	18000				880	2650	2570	1520	4580	3610	1680	5060	4740
	942	18000				970	2920	2830	1680	5050	3990	1860	5580	5230
	1093	18000				1130	3390	3290	1950	5860	4630	2160	6480	6070
	1229	18000				1270	3810	3700	2190	6590	5200	2420	7280	6820
	1365	18000	890	2690	2690	1410	4240	4110	2440	7320	5780	2690	8090	7580
K157R97  3  3	1659	18000	1090	3270	3270	1710	5150	4990	2960	8900	7020	3270	9830	9210
	2322	18000				2370	7120	6910	4100	12300	9710	4530	13600	12700
	2610	18000				2670	8010	7760	4610	13800	10900	5090	15200	14300
	3051	18000	1980	5950	5950	3120	9360	9080	5390	16100	12700	5950	17800	16700
	3516	18000				3590	10700	10400	6210	18600	14700	6860	20600	19200
	3979	18000	2590	7770	7770	4070	12200	11800	7030	21000	16600	7770	23300	21800
	4514	18000				4610	13800	13400	7970	23900	18800	8810	26400	24700
	5074	18000				5190	15500	15100	8960	26900	21200	9910	29700	27800
	5931	18000	3860	11500	11500	6060	18200	17600	10400	31400	24800	11500	34700	32500
	6881	18000	4480	13400	13400	7040	21100	20400	12100		28800	13400		
	7734	18000	5030	15100	15100	7910	23700	23000	13600		32300	15100		
	8718	18000	5670	17000	17000	8910	26700	25900	15400			17000		
	10114	18000	6580	19700	19700	10300	31000	30100	17800			19700		
	11368	18000	7400	22200	22200	11600	34800	33800	20000			22200		
	13097	18000	8520	25500	25500	13400			23100			25500		
	14721	18000	9580	28700	28700	15000			26000			28700		
	15729	18000	10200	30700	30700	16000			27700			30700		
	17679	18000	11500	34500	34500	18000			31200			34500		

m [kg]		DRM			
	s	71M12	90M12	100M12	100L12
K157R97	 3  2	750	760	770	770
K157R97	 3  3	760	770	770	780
KF: + 78.4 kg / KA: + -36.9 kg / KAF: + 21.7 kg					



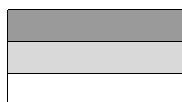
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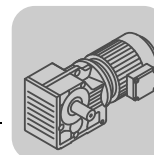
M_a [Nm]			DRM					
	i	M_{amax} [Nm]	S1	132S12 S3	S1 /V	S1	132M12 S3	S1 /V
			2.5	7.5	6.2	2.7	8.1	7.1
K157R97  3  2	504	18000	1180	3550	2940	1280	3840	3360
	567	18000	1330	4000	3300	1440	4320	3780
	854	18000	2000	6020	4980	2170	6510	5700
	942	18000	2210	6650	5490	2390	7180	6290
	1093	18000	2570	7710	6370	2770	8330	7300
	1229	18000	2890	8670	7170	3120	9370	8210
	1365	18000	3210	9630	7960	3460	10400	9120
	1659	18000	3900	11700	9680	4210	12600	11000
K157R97  3  3	2322	18000	5390	16100	13300	5830	17400	15300
	2610	18000	6060	18200	15000	6550	19600	17200
	3051	18000	7090	21200	17500	7660	22900	20100
	3516	18000	8170	24500	20200	8820	26400	23200
	3979	18000	9250	27700	22900	9990	29900	26200
	4514	18000	10400	31400	26000	11300	34000	29800
	5074	18000	11700	35300	29200	12700		33500
	5931	18000	13700		34200	14800		
	6881	18000	16000			17200		
	7734	18000	17900			19400		
	8718	18000	20200			21800		
	10114	18000	23500			25300		
	11368	18000	26400			28500		
	13097	18000	30400			32800		
	14721	18000	34200					
	15729	18000						
	17679	18000						

m [kg]		DRM	
	s	132S12	132M12
K157R97	 3  2	790	800
K157R97	 3  3	790	800

KF: + 78.4 kg / KA: + -36.9 kg / KAF: + 21.7 kg



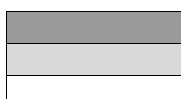
→ 15



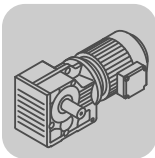
K 167R97

	M _a [Nm]		DRM											
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12		
			S1 0.7	S3 2.1	S1 /V 2.1	S1 1.1	S3 3.3	S1 /V 3.2	S1 1.9	S3 5.7	S1 /V 4.5	S1 2.1	S3 6.3	S1 /V 5.9
K167R97  3  2	481	32000				495	1490	1440	860	2580	2030	950	2850	2670
	632	32000				650	1960	1900	1130	3390	2670	1240	3740	3510
	944	32000				970	2930	2840	1680	5060	3990	1860	5590	5240
	1101	32000				1140	3420	3310	1960	5900	4660	2170	6520	6110
	1296	32000	850	2560	2560	1340	4020	3900	2310	6950	5490	2560	7680	7190
	1408	32000	920	2780	2780	1450	4370	4240	2510	7550	5960	2780	8350	7820
	1704	32000	1120	3360	3360	1760	5290	5130	3040	9140	7210	3360	10100	9460
	2182	32000	1430	4310	4310	2250	6770	6570	3900	11700	9240	4310	12900	12100
K167R97  3  3	2755	32000	1790	5380	5380	2810	8450	8190	4860	14600	11500	5380	16100	15100
	3376	32000	2190	6590	6590	3450	10300	10000	5960	17800	14100	6590	19700	18500
	4079	32000	2650	7960	7960	4170	12500	12100	7200	21600	17000	7960	23900	22300
	4788	32000				4890	14600	14200	8460	25300	20000	9350	28000	26200
	5355	32000	3480	10400	10400	5470	16400	15900	9460	28300	22400	10400	31300	29300
	6562	32000	4270	12800	12800	6710	20100	19500	11500	34700	27400	12800	38400	36000
	8628	32000	5610	16800	16800	8820	26400	25600	15200	45700	36100	16800	50500	47300
	10264	32000	6680	20000	20000	10500	31500	30500	18100	54400	42900	20000	60100	56300
	11573	32000	7530	22600	22600	11800	35500	34400	20400	61300	48400	22600		63500
	13238	32000	8610	25800	25800	13500	40600	39400	23300		55400	25800		
	15000	32000	9760	29200	29200	15300	46000	44600	26500		62700	29200		
	17406	32000	11300	33900	33900	17800	53400	51800	30700			33900		
	19723	32000	12800	38500	38500	20100	60500	58700	34800			38500		

m [kg]		DRM			
	s	71M12	90M12	100M12	100L12
K167R97	 3  2	1150	1160	1160	1170
K167R97	 3  3	1150	1160	1170	1170
KH: + -38.0 kg					



→ 15



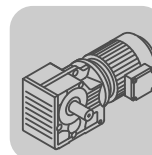
M_a [Nm]			DRM					
	i	M_{amax}	S1	132S12	S1	S1	132M12	S1
		[Nm]	2.5	7.5	/V	2.7	8.1	/V
K167R97 	481	32000	1130	3390	2800	1220	3660	3210
	632	32000	1480	4460	3680	1600	4810	4220
	944	32000	2220	6660	5500	2390	7190	6300
	1101	32000	2590	7770	6420	2790	8390	7350
	1296	32000	3050	9150	7560	3290	9880	8660
	1408	32000	3310	9940	8210	3570	10700	9410
	1704	32000	4010	12000	9940	4330	12900	11300
	2182	32000	5130	15400	12700	5540	16600	14500
K167R97 	2755	32000	6400	19200	15800	6910	20700	18100
	3376	32000	7850	23500	19400	8470	25400	22200
	4079	32000	9480	28400	23500	10200	30700	26900
	4788	32000	11100	33400	27600	12000	36000	31600
	5355	32000	12400	37300	30800	13400	40300	35300
	6562	32000	15200	45700	37800	16400	49400	43300
	8628	32000	20000	60100	49700	21600		56900
	10264	32000	23800		59100	25700		
	11573	32000	26900			29000		
	13238	32000	30700			33200		
	15000	32000						
	17406	32000	40400			43700		
	19723	32000						

m [kg]		DRM	
s		132S12	132M12
K167R97 		1180	1190
K167R97 		1180	1200

KH: + -38.0 kg



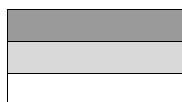
→ 15



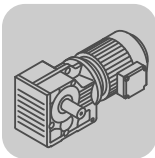
K 187R97

M _a [Nm]			DRM											
	i	M _{amax} [Nm]	71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
K187R97  3  2	1046	50000				1080	3240	3150	1870	5610	4430	2060	6200	5800
	1196	50000				1230	3710	3600	2130	6410	5060	2360	7090	6640
	1605	50000				1660	4980	4830	2870	8610	6790	3170	9510	8910
	1821	50000				1880	5650	5480	3250	9770	7710	3600	10800	10100
	2054	50000				2120	6380	6180	3670	11000	8700	4060	12100	11400
	2268	50000				2340	7040	6830	4050	12100	9600	4480	13400	12500
	2519	50000	1660	4980	4980	2600	7820	7580	4500	13500	10600	4980	14900	13900
	3062	50000	2010	6050	6050	3170	9510	9220	5470	16400	12900	6050	18100	17000
K187R97  3  3	3609	50000	2370	7130	7130	3730	11200	10800	6450	19300	15200	7130	21400	20000
	4370	50000				4470	13400	13000	7720	23100	18200	8530	25600	23900
	4817	50000				4920	14700	14300	8510	25500	20100	9400	28200	26400
	5358	50000				5480	16400	15900	9460	28400	22400	10400	31300	29400
	5991	50000	3900	11700	11700	6120	18300	17800	10500	31700	25000	11700	35100	32800
	6747	50000	4390	13100	13100	6900	20700	20000	11900	35700	28200	13100	39500	37000
	7343	50000	4780	14300	14300	7510	22500	21800	12900	38900	30700	14300	43000	40200
	8126	50000				8310	24900	24100	14300	43000	34000	15800	47600	44500
	9363	50000				9570	28700	27800	16500	49600	39100	18200	54800	51300
	10413	50000				10600	31900	30900	18400	55200	43500	20300	61000	57100
	11647	50000	7580	22700	22700	11900	35700	34600	20500	61700	48700	22700	68200	63900
	13116	50000	8530	25600	25600	13400	40200	39000	23100	69500	54800	25600	76800	71900
	14272	50000	9290	27800	27800	14600	43800	42400	25200	75600	59700	27800	83600	78300
	16978	50000	11000	33100	33100	17300	52100	50500	30000	90000	71000	33100	99400	93100
	19144	50000	12400	37300	37300	19500	58700	56900	33800		80100	37300		
	24353	50000	15800	47500	47500	24900	74700	72400	43000			47500		
	27165	50000	17600	53000	53000	27700	83300	80800	48000			53000		
	32625	50000	21200	63700	63700	33300		97100	57600			63700		

m [kg]		DRM			
	s	71M12	90M12	100M12	100L12
K187R97	 3  2	1730	1740	1750	1750
K187R97	 3  3	1730	1740	1750	1750
KH: + -67.0 kg					



→ 15



K..DRM – 60 Hz

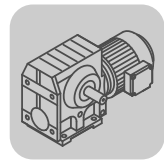
K..DRM

M_a [Nm]			DRM					
	i	M_{amax} [Nm]	S1	132S12 S3	S1 /V 6.2	S1	132M12 S3	S1 /V 7.1
K187R97  3  2	1046	50000	2460	7380	6100	2650	7970	6990
	1196	50000	2810	8440	6980	3040	9120	7990
	1605	50000	3770	11300	9360	4070	12200	10700
	1821	50000	4280	12800	10600	4620	13800	12100
	2054	50000	4830	14500	11900	5220	15600	13700
	2268	50000	5330	16000	13200	5760	17200	15100
	2519	50000	5920	17700	14700	6400	19200	16800
	3062	50000	7200	21600	17800	7780	23300	20400
	3609	50000	8490	25400	21000	9170	27500	24100
K187R97  3  3	4370	50000	10100	30400	25200	10900	32900	28800
	4817	50000	11200	33600	27700	12000	36200	31800
	5358	50000	12400	37300	30800	13400	40300	35300
	5991	50000	13900	41700	34500	15000	45100	39500
	6747	50000	15600	47000	38900	16900	50800	44500
	7343	50000	17000	51200	42300	18400	55300	48400
	8126	50000	18800	56600	46800	20400	61200	53600
	9363	50000	21700	65300	53900	23500	70500	61800
	10413	50000	24200	72600	60000	26100	78400	68700
	11647	50000	27000	81200	67100	29200	87700	76900
	13116	50000	30400	91400	75600	32900	98800	86600
	14272	50000	33100	99500	82300	35800		94200
	16978	50000	39400		97900	42600		
	19144	50000	44500			48000		
	24353	50000	56600			61100		
	27165	50000	63100			68200		
	32625	50000						

m [kg]		DRM	
	s	132S12	132M12
K187R97	 3  2	1760	1780
K187R97	 3  3	1770	1780
KH: + -67.0 kg			



→ 15



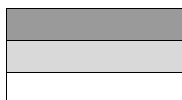
12 S..DRM – 60 Hz

12.1 S..DRM

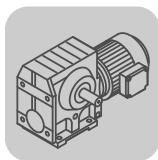
S 37

	M _a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M _{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
S37  2	3.97	32	2.3	7.0	5.8	2.7	8.1	8.1	4.3	13	12	7.4	22	17	8.1	24	23
	4.86	33	2.8	8.5	7.1	3.3	10.0	10.0	5.2	16	15	9.0	27	21	10.0	30	28
	5.38	34	3.2	9.5	7.9	3.7	11	11	5.8	17	17	10.0	30	24	11	33	31
	6.33	35	3.7	11	9.3	4.3	13	13	6.8	20	20	12	35	28	13	39	36
	6.80	43	4.0	12	10.0	4.6	14	14	7.3	22	21	13	38	30	14	42	39
	8.00	45	4.7	14	12	5.5	16	16	8.6	26	25	15	45	35	16	49	46
	9.02	46	5.3	16	13	6.2	18	18	9.7	29	28	17	50	40	18	55	52
	10.23	47	6.0	18	15	7.0	21	21	11	33	32	19	57	45	21	63	59
	10.91	48	6.4	19	16	7.5	22	22	12	35	34	20	61	48	22	67	63
	12.48	48	7.3	22	18	8.5	26	26	13	40	39	23	69	55	26	77	72
	13.39	49	7.8	24	20	9.1	27	27	14	43	42	25	75	59	27	82	77
	15.53	50	9.1	27	23	11	32	32	17	50	49	29	86	68	32	96	89
	18.24	52	11	32	27	12	37	37									
	19.13	71	11	34	28	13	39	39	21	62	60	35	106	84	39	118	110
	19.89	52	12	35	29	14	41	41									
	22.50	73	13	40	33	15	46	46	24	72	70	42	125	99	46	138	130
	25.38	74	15	45	37	17	52	52	27	82	79	47	141	111	52		146
	28.76	75	17	51	42	20	59	59	31	93	90	53		126	59		
	30.68	76	18	54	45	21	63	63	33	99	96	57		135	63		
	35.10	78	21	62	51	24	72	72	38	113	110	65		154	72		
	37.66	79	22	66	55	26	77	77	40	121	118	70			77		
	43.68	81	26	77	64	30	90	90	47	141	136	81			90		
	51.30	81	30	90	75	35	105	105									
	53.83	80	32	95	79	37	110	110	58			100			110		
	55.93	81	33	98	82	38	115	115									
	63.33	82	37	111	93	43	130	130	68			117			130		
	71.44	84	42	126	105	49	146	146	77			132			146		
	80.96	85	47	142	119	55	166	166	87			150			166		
	86.36	86	51	152	126	59			93			160					
	98.80	87	58	174	145	68			106								
	106.00	88	62		155	72			114								
	122.94	91	72		180	84			132								
	144.40	92	85			99											
	157.43	92	92			108											

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
S37	23	13	14	24	31	34
SF: + 1.3 kg / SA: + -0.3 kg / SAF: + 1.3 kg						



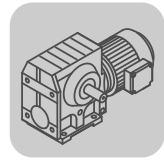
→ 15


S 37R17

M_a [Nm]			DRM					
	i	M_{amax}	S1	71S12	S1	S1	71M12	S1
		[Nm]	0.6	S3	/V	0.7	S3	/V
				1.8	1.5		2.1	2.1
S37R17 	110	92	63		157	73		
	118	92	67		169	79		
	144	92	82			96		
	158	92	90			105		
	179	92	102			119		
	202	92	115			135		
	232	92	133			155		
	265	92	152			177		
	303	92	173					

m [kg]		DRM	
	s	71S12	71M12
S37R17		16	17
S37R17	 	16	17
SF: + 1.3 kg / SA: + -0.3 kg / SAF: + 1.3 kg			


 →  **15**



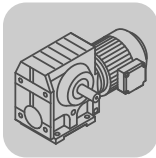
S 47

	M _a [Nm]		DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
S47 	4.00	61	2.3	7.0	5.9	2.7	8.2	8.2	4.3	13	12	7.4	22	18	8.2	25	23
	4.76	72	2.8	8.4	7.0	3.3	9.8	9.8	5.1	15	15	8.8	26	21	9.8	29	27
	5.39	74	3.2	9.5	7.9	3.7	11	11	5.8	17	17	10.0	30	24	11	33	31
	6.40	76	3.7	11	9.4	4.4	13	13	6.9	21	20	12	36	28	13	39	37
	6.83	78	4.0	12	10	4.7	14	14	7.3	22	21	13	38	30	14	42	39
	7.28	103	4.3	13	11	5.0	15	15	7.8	23	23	14	41	32	15	45	42
	8.64	109	5.1	15	13	5.9	18	18	9.3	28	27	16	48	38	18	53	50
	9.23	109	5.4	16	14	6.3	19	19	9.9	30	29	17	51	41	19	57	53
	10.80	109	6.3	19	16	7.4	22	22	12	35	34	20	60	47	22	66	62
	12.10	109	7.1	21	18	8.3	25	25	13	39	38	22	67	53	25	74	70
	14.24	110	8.3	25	21	9.7	29	29	15	46	44	26	79	63	29	88	82
	16.47	110	9.6	29	24	11	34	34	18	53	51	31	92	72	34	101	95
	17.62	110	10	31	26	12	36	36	19	57	55	33	98	77	36	108	101
	19.54	144							21	63	61	36	109	86	40	120	113
	20.33	110	12	36	30	14	42	42	22	65	64	38	113	89	42	125	117
	23.20	152	14	41	34	16	48	48	25	75	72	43	129	102	48	143	134
	24.77	155	15	44	36	17	51	51	27	80	77	46	138	109	51	152	143
	29.00	155	17	51	42	20	59	59	31	93	91	54	161	127	59	178	167
	32.48	155	19	57	48	22	67	67	35	105	101	60	181	143	67	200	187
	38.23	155	22	67	56	26	78	78	41	123	119	71	210	168	78	235	220
	44.22	155	26	78	65	30	91	91	47	142	138	82	245	194	91	270	250
	47.32	155	28	83	69	32	97	97	51	152	148	88	260	205	97	290	270
	54.59	155	32	96	80	37	112	112	59	176	171	101	300	235	112		
	56.61	165							61	182	177	105	310	245	116		325
	63.80	155	37	112	93	44	131	131									
	67.20	167	39	118	98	46	138	138	72	215	205	125		295	138		
	69.39	155	41	122	102	47	142	142									
	71.75	167	42	126	105	49	147	147	77	230	220	133		315	147		
	84.00	167	49	148	123	57	172	172	90	270	260	156			172		
	94.08	168	55	165	138	64	193	193	101	300	290	174			193		
	110.73	168	65	195	162	76	225	225	119			205			225		
	128.10	168	75	225	188	88	260	260	138			235			260		
	137.05	168	80	240	200	94	280	280	147			250			280		
	158.12	170	93	275	230	108	320	320	170			290			320		
	184.80	170	108	320	270	126											
	201.00	170	118		290	137											

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
S47		16	17	27	34	37
SF: + 3.6 kg / SA: + 1.1 kg / SAF: + 2.8 kg						



→ 15



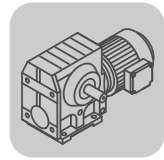
S..DRM – 60 Hz
S..DRM

S 47R17

M _a [Nm]			DRM					
i	M _{amax} [Nm]		S1	71S12 S3	S1 /V	S1	71M12 S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1
S47R17  2  2	131	185	75	220	187	87	260	260
	148	185	85	250	210	99	295	295
	165	185	94	280	235	110	330	330
	187	185	107	320	265	125		
	200	185	114	340	285	133		
	229	185	131		325	153		
	257	185	147		365	171		
	294	185	168			196		
	336	185	192			220		
	388	185	220			255		
	438	185	250			290		
	506	185	285			335		
	574	185	325					

m [kg]		DRM	
S47R17	s	71S12	71M12
	 2  2	19	20
S47R17	 2  3	19	20
SF: + 3.6 kg / SA: + 1.1 kg / SAF: + 2.8 kg			

	→  15



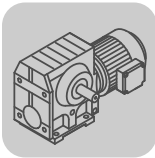
S 57

	M_a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M_{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
S57 	4.00	88	2.3	7.0	5.9	2.7	8.2	8.2	4.3	13	12	7.4	22	18	8.2	25	23
	4.76	93	2.8	8.4	7.0	3.3	9.8	9.8	5.1	15	15	8.8	26	21	9.8	29	27
	5.39	95	3.2	9.5	7.9	3.7	11	11	5.8	17	17	10.0	30	24	11	33	31
	6.40	98	3.7	11	9.4	4.4	13	13	6.9	21	20	12	36	28	13	39	37
	6.83	100	4.0	12	10	4.7	14	14	7.3	22	21	13	38	30	14	42	39
	7.28	146	4.3	13	11	5.0	15	15	7.8	23	23	14	41	32	15	45	42
	8.64	166	5.1	15	13	5.9	18	18	9.3	28	27	16	48	38	18	53	50
	9.23	169	5.4	16	14	6.3	19	19	9.9	30	29	17	51	41	19	57	53
	10.80	169	6.3	19	16	7.4	22	22	12	35	34	20	60	47	22	66	62
	12.10	169	7.1	21	18	8.3	25	25	13	39	38	22	67	53	25	74	70
	14.24	169	8.3	25	21	9.7	29	29	15	46	44	26	79	63	29	88	82
	16.47	168	9.6	29	24	11	34	34	18	53	51	31	92	72	34	101	95
	17.62	168	10	31	26	12	36	36	19	57	55	33	98	77	36	108	101
	19.54	215							21	63	61	36	109	86	40	120	113
	20.33	168	12	36	30	14	42	42	22	65	64	38	113	89	42	125	117
	23.20	245	14	41	34	16	48	48	25	75	72	43	129	102	48	143	134
	24.77	245	15	44	36	17	51	51	27	80	77	46	138	109	51	152	143
	29.00	245	17	51	42	20	59	59	31	93	91	54	161	127	59	178	167
	32.48	245	19	57	48	22	67	67	35	105	101	60	181	143	67	200	187
	38.23	245	22	67	56	26	78	78	41	123	119	71	210	168	78	235	220
	44.22	245	26	78	65	30	91	91	47	142	138	82	245	194	91	270	250
	47.32	245	28	83	69	32	97	97	51	152	148	88	260	205	97	290	270
	54.59	245	32	96	80	37	112	112	59	176	171	101	300	235	112	335	310
	56.61	265							61	182	177	105	310	245	116	345	325
	63.80	245	37	112	93	44	131	131									
	67.20	285	39	118	98	46	138	138	72	215	205	125	370	295	138	410	385
	69.39	245	41	122	102	47	142	142									
	71.75	290	42	126	105	49	147	147	77	230	220	133	395	315	147	440	410
	84.00	295	49	148	123	57	172	172	90	270	260	156	465	365	172	515	480
	94.08	295	55	165	138	64	193	193	101	300	290	174	520	410	193	575	540
	110.73	295	65	195	162	76	225	225	119	355	345	205		485	225		
	128.10	295	75	225	188	88	260	260	138	410	400	235		560	260		
	137.05	295	80	240	200	94	280	280	147	440	425	250			280		
	158.12	295	93	275	230	108	320	320	170	505	490	290			320		
	184.80	295	108	320	270	126	375	375									
	201.00	295	118	350	290	137	410	410									

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
S57		20	21	30	38	41
SF: + 3.8 kg / SA: + -0.3 kg / SAF: + 2.6 kg						



→ 15

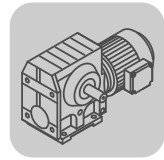


S 57R17

M _a [Nm]			DRM					
i	M _{amax} [Nm]		S1	71S12 S3	S1 /V	S1	71M12 S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1
S57R17 2 2	131	300	75	220	187	87	260	260
	165	300	94	280	235	110	330	330
	187	300	107	320	265	125	370	370
	204	300	117	345	290	136	405	405
	229	300	131	390	325	153	455	455
	269	300	154	460	380	179	535	535
	294	300	168	500	420	196	585	585
	336	300	192	575	480	220		
	388	300	220		550	255		
	438	300	250			290		
	506	300	285			335		
	574	300	325			380		
	655	300	370			435		
	750	300	425			500		
	865	300	490			575		
	965	300	550					

m [kg]		DRM	
S57R17	s	71S12	71M12
	2 2	23	24
S57R17	2 3	23	24
SF: + 3.8 kg / SA: + -0.3 kg / SAF: + 2.6 kg			

→ 15

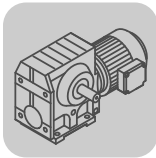


S 67

	M_a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M_{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
S67 	7.56	295							8.1	24	24	14	42	33	15	46	44
	8.69	335	5.1	15	13	5.9	18	18	9.3	28	27	16	48	38	18	53	50
	10.03	340	5.9	18	15	6.9	21	21	11	32	31	19	56	44	21	62	58
	11.03	340	6.5	19	16	7.5	23	23	12	36	34	20	61	48	23	68	64
	12.96	340	7.6	23	19	8.9	27	27	14	42	40	24	72	57	27	80	75
	13.73	340	8.0	24	20	9.4	28	28	15	44	43	25	76	60	28	84	79
	15.60	340	9.1	27	23	11	32	32	17	50	49	29	87	69	32	96	90
	17.28	340	10	30	25	12	35	35	19	56	54	32	96	76	35	106	100
	20.37	340	12	36	30	14	42	42	22	66	64	38	113	89	42	125	117
	23.22	340	14	41	34	16	48	48	25	75	73	43	129	102	48	143	134
	24.44	340	14	43	36	17	50	50	26	79	76	45	136	107	50	150	141
	26.93	480	16	47	39	18	55	55	29	87	84	50	150	118	55	166	155
	29.63	480	17	52	43	20	61	61	32	95	93	55	165	130	61	182	171
	34.80	480	20	61	51	24	71	71	37	112	109	65	194	153	71	210	200
	36.85	480	22	65	54	25	76	76	40	119	115	68	205	162	76	225	210
	41.89	480	25	74	61	29	86	86	45	135	131	78	230	184	86	255	240
	46.40	480	27	82	68	32	95	95	50	149	145	86	255	200	95	285	265
	54.70	480	32	96	80	37	112	112	59	176	171	101	300	240	112	335	315
	62.35	480	37	110	91	43	128	128	67	200	195	116	345	270	128	380	355
	65.63	480	38	115	96	45	135	135	70	210	205	122	365	285	135	400	375
	75.06	480	44	132	110	51	154	154	81	240	230	139	415	325	154	460	430
	78.00	520							84	250	240	145	430	340	160	475	445
	85.83	520	50	151	126	59	176	176	92	275	265	159	475	375	176	525	490
	100.80	520	59	177	148	69	205	205	108	320	310	187	560	440	205	615	580
	106.75	520	63	188	156	73	215	215	115	340	330	198	590	465	215	655	610
	121.33	520	71	210	178	83	245	245	130	390	375	225	675	530	245	745	695
	134.40	520	79	235	197	92	275	275	144	430	415	245	745	590	275	820	770
	158.45	520	93	275	230	108	320	320	170	510	490	290	880	695	320	970	910
	180.60	520	106	315	260	123	370	370	194	580	560	330	1000	790	370		
	190.11	520	111	330	275	130	385	385	200	610	590	350		830	385		
	217.41	520	127	380	315	149	445	445	230	700	675	400		950	445		

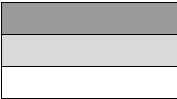
m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
S67		31	32	42	49	52
SF: + 6.5 kg / SA: + 1.0 kg / SAF: + 5.5 kg						



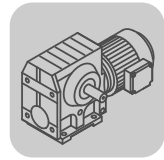


S 67R37

M _a [Nm]			DRM														
	i	M _{amax} [Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
S67R37 2 2	156	570	89	265	220	104	310	310	164	490	475	280	840	665	310	930	870
	168	570	96	285	240	112	335	335	176	525	510	300	910	720	335	1000	940
	198	570	113	335	280	132	395	395	205	620	600	355	1070	840	395		1110
	221	570	126	375	315	147	440	440	230	690	670	400		940	440		
	246	570	141	420	350	164	490	490	255	770	750	445		1050	490		
	281	570	161	480	400	187	560	560	290	880	850	505			560		
	319	570	182	545	455	210	635	635	330	1000	970	575			635		
	365	570	205	625	520	240	730	730	380		1110	660			730		
	424	570	240	725	605	280	840	840	440			765			840		
	469	570	265	800	670	310	930	930	490			840			930		
	543	570	310	930	775	360	1080	1080	565			980			1080		
	615	570	350	1050	870	410			640			1110					
	712	570	405		1010	470			745								
	809	570	460			535			840								
S67R37 2 3	914	570	515			600			940								
	1045	570	590			685			1080								
	1194	570	670			785											
	1363	570	765			890											
	1559	570	880			1020											
	1772	570	1000														
	2014	570	1130														
m [kg]			DRM														
	s		71S12			71M12			90M12			100M12			100L12		
S67R37	2 2		42			43			52			59			62		
S67R37	2 3		42			43			52			60			63		
SF: + 6.5 kg / SA: + 1.0 kg / SAF: + 5.5 kg																	



→ 15

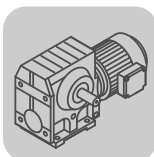


S 77

	M_a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M_{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
S77 	8.06	680							8.7	26	25	15	45	35	17	50	46
	9.44	725							10	30	29	18	53	41	19	58	54
	10.65	720							11	34	33	20	59	47	22	65	61
	12.07	720	7.1	21	18	8.2	25	25	13	39	38	22	67	53	25	74	70
	13.76	710	8.1	24	20	9.4	28	28	15	44	43	26	77	60	28	85	79
	15.28	710	8.9	27	22	10	31	31	16	49	48	28	85	67	31	94	88
	17.45	710	10	31	26	12	36	36	19	56	55	32	97	77	36	107	100
	18.42	705	11	32	27	13	38	38	20	59	58	34	102	81	38	113	106
	20.99	705	12	37	31	14	43	43	23	68	66	39	117	92	43	129	121
	22.89	705	13	40	34	16	47	47	25	74	72	42	127	101	47	141	132
	25.07	1020							27	81	78	46	139	110	51	154	144
	28.41	1050	17	50	42	19	58	58	31	92	89	53	158	125	58	175	164
	32.38	1090	19	57	47	22	66	66	35	104	101	60	180	142	66	199	186
	35.94	1100	21	63	53	25	74	74	39	116	112	67	200	158	74	220	205
	41.07	1100	24	72	60	28	84	84	44	132	128	76	225	180	84	250	235
	43.33	1100	25	76	63	30	89	89	47	140	135	80	240	190	89	265	245
	49.38	1100	29	87	72	34	101	101	53	159	154	92	270	215	101	300	280
	53.87	1100	32	95	79	37	110	110	58	174	168	100	295	235	110	330	310
	56.92	990							61	183	178	106	315	250	117	350	325
	63.03	1100	37	111	92	43	129	129	68	200	197	117	350	275	129	385	360
	66.67	1040							72	210	205	124	370	290	137	410	380
	71.33	1100	42	125	104	49	146	146	77	225	220	132	395	310	146	435	410
	75.09	1100	44	132	110	51	154	154	81	240	230	139	415	325	154	460	430
	85.22	1100	50	150	125	58	175	175	92	270	265	158	470	370	175	520	490
	97.14	1140	57	171	142	66	199	199	104	310	300	180	540	425	199	595	555
	107.83	1170	63	189	158	74	220	220	116	345	335	200	595	470	220	660	620
	123.20	1200	72	215	180	84	250	250	132	395	380	225	685	540	250	755	705
	130.00	1210	76	225	190	89	265	265	140	415	405	240	720	570	265	795	745
	148.15	1240	87	260	215	101	300	300	159	475	460	270	820	650	300	910	850
	161.60	1260	95	280	235	110	330	330	174	520	500	295	890	705	330	990	930
	189.09	1270	111	330	275	129	385	385	200	605	590	350	1050	830	385	1160	1080
	214.00	1270	125	375	310	146	435	435	225	685	665	395	1190	940	435	1310	1230
	225.26	1270	132	395	325	154	460	460	240	725	700	415	1250	980	460	1380	1290
	256.47	1270	150	450	375	175	525	525	275	820	800	475	1420	1120	525	1570	1470

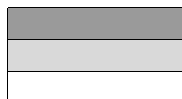
m [kg]		71S12			71M12			DRM 90M12			100M12			100L12		
S77	s	52			53			62			69			72		
SF: + 9.7 kg / SA: + -0.5 kg / SAF: + 6.2 kg																

→  15

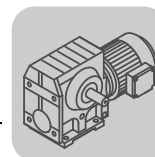


	M_a [Nm]		DRM					
	i	M_{amax} [Nm]	132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V
			2.5	7.5	6.2	2.7	8.1	7.1
S77 	8.06	680	20	59	49	21	64	56
	9.44	725	23	69	57	25	75	65
	10.65	720	26	78	64	28	84	74
	12.07	720	29	88	73	32	95	84
	13.76	710	34	101	83	36	109	95
	15.28	710	37	112	92	40	121	106
	17.45	710	43	128	106	46	138	121
	18.42	705	45	135	111	49	146	128
	20.99	705	51	154	127	55	166	145
	22.89	705	56	168	139	60	181	159
	25.07	1020	61	184	152	66	198	174
	28.41	1050	69	205	172	75	220	197
	32.38	1090	79	235	196	85	255	220
	35.94	1100	88	260	215	95	280	245
	41.07	1100	100	300	245	108	320	280
	43.33	1100	106	315	260	114	340	300
	49.38	1100	121	360	295	130	390	340
	53.87	1100	131	390	325	142	425	370
	56.92	990	139	415	340	150	450	390
	63.03	1100	154	460	380	166	495	435
	66.67	1040	163	485	400	176	525	460
	71.33	1100	174	520	430	188	560	490
	75.09	1100	183	545	450	198	590	520
	85.22	1100	205	620	515	220	670	590
	97.14	1140	235	710	585	255	765	670
	107.83	1170	260	785	650	280	850	745
	123.20	1200	300	900	745	320	970	850
	130.00	1210	315	950	785	340	1020	900
	148.15	1240	360	1080	890	390	1170	1020
	161.60	1260	390	1180	970	425	1270	1110
	189.09	1270	460	1380	1140	495	1490	1310
	214.00	1270	520	1560	1290	560	1690	1480
	225.26	1270	545	1640	1360	590	1780	1560
	256.47	1270						

m [kg]		DRM	
S77	s	132S12	132M12
		87	100
SF: + 9.7 kg / SA: + -0.5 kg / SAF: + 6.2 kg			



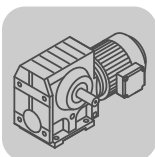
→ 15



S 77R37

	M _a [Nm]		DRM														
	i	M _{amax}	71S12			71M12			90M12			100M12			100L12		
		[Nm]	S1 0.6	S3 1.8	S1 /V 1.5	S1 0.7	S3 2.1	S1 /V 2.1	S1 1.1	S3 3.3	S1 /V 3.2	S1 1.9	S3 5.7	S1 /V 4.5	S1 2.1	S3 6.3	S1 /V 5.9
S77R37 2 2	219	1240	125	375	310	146	435	435	225	685	665	395	1180	930	435	1310	1230
	250	1240	143	425	355	167	500	500	260	785	760	450	1350	1070	500	1500	1400
	289	1240	165	495	410	193	575	575	300	900	880	520	1560	1230	575	1730	1620
	327	1240	187	560	465	215	650	650	340	1020	990	590	1770	1400	650	1960	1830
	389	1240	220	665	555	255	775	775	405	1220	1180	700	2110	1660	775	2330	2180
	438	1240	250	750	625	290	870	870	455	1370	1330	790	2370	1870	870		2460
	499	1240	285	850	710	330	990	990	520	1560	1520	900		2130	990		
	574	1240	325	980	820	380	1140	1140	600	1800	1750	1030		2460	1140		
	637	1240	360	1090	910	420	1270	1270	665	2000	1940	1150			1270		
	714	1240	405	1220	1020	475	1420	1420	745	2240	2170	1290			1420		
	837	1240	475	1430	1190	555	1670	1670	870			1510			1670		
	954	1240	545	1630	1360	635	1900	1900	990			1720			1900		
1100	1240	625	1880	1570	730	2200	2200	1150			1990			2200			
S77R37 2 3	1245	1240	700	2100	1750	820	2460	2460	1280			2220			2460		
	1404	1240	790	2370	1980	920			1450								
	1600	1240	900		2250	1050			1650								
	1745	1240	980		2460	1140			1800								
	1813	1240	1020			1190			1870								
	2083	1240	1170			1370			2150								
	2374	1240	1340			1560			2450								
	2753	1240	1550			1810											
	3098	1270	1740			2040											
	3540	1270	1990			2330											
3992	1270	2250															
m [kg]			DRM														
	s		71S12			71M12			90M12			100M12			100L12		
S77R37	2 2		60			61			71			78			81		
S77R37	2 3		61			62			71			78			81		
SF: + 9.7 kg / SA: + -0.5 kg / SAF: + 6.2 kg																	



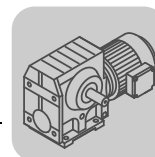

S 87

M_a [Nm]			DRM																	
i	M_{amax}	[Nm]	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9	2.5	7.5	6.2	2.7	8.1	7.1
S87 	12.21	1240				13	39	38	23	68	54	25	75	70	30	89	74	32	97	85
	14.06	1240				15	45	44	26	78	62	29	86	81	34	103	85	37	111	97
	15.64	1240				17	50	49	29	87	69	32	96	90	38	115	95	41	124	108
	17.49	1240	12	36	36	19	56	55	32	97	77	36	108	101	43	128	106	46	138	121
	19.70	1240	13	40	40	21	63	62	37	110	87	40	121	113	48	144	119	52	156	137
	21.43	1240	15	44	44	23	69	67	40	119	94	44	132	123	52	157	130	56	169	149
	25.50	1240	17	52	52	27	82	80	47	142	112	52	157	147	62	187	154	67	200	177
	27.28	1600				29	88	85	51	152	120	56	168	157	67	200	165	72	215	189
	31.43	1600				34	101	98	58	175	138	64	193	181	77	230	190	83	245	215
	34.96	1600				38	113	109	65	195	154	72	210	200	85	255	210	92	275	240
	39.10	1600	27	80	80	42	126	122	73	215	172	80	240	225	95	285	235	103	305	270
	44.03	1600	30	90	90	47	142	138	82	240	193	90	270	250	107	320	265	116	345	305
	47.91	1600	33	98	98	51	154	150	89	265	210	98	290	275	117	350	285	126	375	330
	57.00	1600	39	117	117	61	184	178	106	315	250	117	350	325	139	415	340	150	450	395
	64.27	1600	44	132	132	69	205	200	119	355	280	132	395	370	157	470	385	169	505	445
	70.43	1600	48	144	144	76	225	215	131	390	305	144	430	405	172	515	425	186	555	485
	81.76	1600	56	168	168	88	260	255	152	450	355	168	500	470	200	595	490	215	645	565
	86.15	1880				93	275	265	160	475	375	177	525	495	210	630	520	225	680	595
	91.20	1510	62	187	187	98	290	280	169	505	400	187	560	525	220	665	550	240	720	630
	99.26	1960				107	315	310	184	550	435	200	610	570	240	725	600	260	780	685
	110.40	2000				119	355	340	200	610	480	225	675	635	265	800	665	290	870	765
	123.48	2060	84	250	250	133	395	385	225	685	540	250	755	710	300	900	745	325	970	850
	139.05	2100	95	285	285	149	445	430	255	770	610	285	850	800	335	1010	840	365	1090	960
	151.30	2150	103	310	310	162	485	470	280	840	660	310	930	870	365	1100	910	395	1190	1040
	180.00	2210	123	365	365	193	575	560	330	1000	790	365	1100	1030	435	1310	1080	470	1420	1240
	202.96	2260	139	415	415	215	650	630	375	1120	890	415	1240	1160	495	1480	1220	530	1600	1400
	222.40	2280	152	455	455	235	715	690	410	1230	970	455	1360	1280	540	1620	1340	585	1750	1540
	258.18	2280	176	525	525	275	830	800	475	1430	1130	525	1580	1480	630	1890	1560	680	2040	1780
	288.00	2280	197	590	590	305	920	890	530	1600	1260	590	1770	1650	700	2100	1740	755	2270	1990

m [kg]		DRM					
	s	71M12	90M12	100M12	100L12	132S12	132M12
S87		89	98	105	110	125	135
SF: + 21.7 kg / SA: + -2.4 kg / SAF: + 13.8 kg							



→ 15

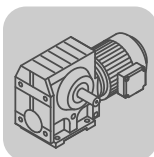


S 87R57

M _a [Nm]			DRM														
i	M _{amax}	[Nm]	71S12			71M12			90M12			100M12			100L12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
			0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
S87R57 2 2	205	1980	117	350	290	137	410	410	210	640	625	370	1110	870	410	1230	1150
	222	1980	127	380	315	148	440	440	230	695	675	400	1200	950	440	1330	1240
	255	1980	146	435	360	170	510	510	265	800	775	460	1380	1090	510	1530	1430
	281	2400							290	880	850	505	1520	1200	560	1680	1570
	323	2400	185	550	460	215	645	645	335	1010	980	580	1750	1380	645	1930	1810
	378	2450							395	1180	1150	680	2050	1620	755	2260	2120
	435	2450	245	745	620	290	870	870	455	1360	1320	785	2360	1860	870	2610	2440
	485	2500							505	1520	1470	870	2630	2070	970	2910	2720
	558	2500	315	950	795	370	1110	1110	580	1750	1700	1010	3030	2390	1110	3340	3130
	624	2500	355	1070	890	415	1240	1240	650	1960	1900	1120	3380	2670	1240	3740	3500
	719	2500	410	1230	1020	475	1430	1430	750	2260	2190	1300	3900	3080	1430	4310	4040
	831	2500	475	1420	1180	550	1660	1660	870	2610	2530	1500	4510	3560	1660	4980	4670
	930	2500	530	1590	1320	620	1860	1860	970	2920	2830	1680		3980	1860		
	1032	2500	590	1770	1470	685	2060	2060	1080	3240	3140	1860		4420	2060		
	1191	2500	680	2040	1700	790	2380	2380	1240	3740	3630	2150			2380		
	1332	2500	760	2280	1900	880	2660	2660	1390	4180	4060	2410			2660		
	1631	2500	930	2790	2330	1080	3260	3260	1700		4970	2950			3260		
	1824	2500	1040	3120	2600	1210	3640	3640	1910			3300			3640		
	2054	2500	1170	3520	2930	1370	4110	4110	2150			3710			4110		
	2335	2500	1330	4000	3330	1550	4670	4670	2440			4220			4670		
	2586	2500	1470	4430	3690	1720			2710			4680					
	2905	2500	1660	4980	4150	1930			3040								
	3475	2500	1980		4960	2310			3640								
S87R57 2 3	3872	2500	2180			2550			4000								
	4606	2500	2600			3030			4760								
	5187	2500	2920			3410											
	5875	2500	3310			3870											
	6706	2500	3780			4410											
	7643	2500	4310														
	8549	2500	4820														

m [kg]		DRM					
s		71S12	71M12	90M12	100M12	100L12	
S87R57	2 2	105	105	115	125	125	
S87R57	2 3	105	105	115	125	130	
SF: + 21.7 kg / SA: + 2.4 kg / SAF: + 13.8 kg							

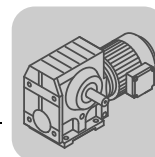



S 97

	M_a [Nm]		DRM																	
	i	M_{amax}	71M12			90M12			100M12			100L12			132S12			132M12		
			S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9	2.5	7.5	6.2	2.7	8.1	7.1
S97 	17.05	2570				18	55	53	32	95	75	35	105	98	42	125	103	45	135	118
	19.23	2600				21	62	60	36	107	84	39	118	111	47	141	116	51	152	133
	21.23	2600				23	68	66	39	118	93	44	131	122	52	155	128	56	168	147
	23.59	2600	16	48	48	25	76	74	44	131	104	48	145	136	58	173	143	62	187	163
	26.39	2600	18	54	54	28	85	82	49	147	116	54	162	152	64	193	160	70	205	183
	36.05	3300				39	116	113	67	200	158	74	220	205	88	260	215	95	285	245
	40.65	3300				44	131	127	75	225	179	83	245	230	99	295	245	107	320	280
	44.89	3300				48	145	140	83	245	197	92	275	255	110	325	270	118	350	310
	49.87	3300	34	102	102	54	161	156	92	275	215	102	305	285	122	365	300	131	390	345
	55.79	3300	38	114	114	60	180	174	103	310	245	114	340	320	136	405	335	147	440	385
	60.59	3300	41	124	124	65	195	189	112	335	265	124	370	345	148	440	365	160	475	415
	71.43	3300	49	146	146	77	230	220	132	395	310	146	435	410	174	520	430	188	560	495
	80.85	3230	55	166	166	87	260	250	150	445	355	166	495	465	197	590	485	210	635	560
	116.92	3510				126	375	365	215	650	510	235	715	670	285	850	705	305	920	810
	131.85	3650				142	420	410	240	730	575	270	810	755	320	960	795	345	1040	910
	145.60	3730				156	465	450	270	810	635	295	890	830	355	1060	880	380	1150	1000
	161.74	3840	111	330	330	174	520	505	295	890	710	330	990	930	390	1180	970	425	1270	1120
	180.95	3920	124	370	370	194	580	565	335	1000	790	370	1110	1040	440	1320	1090	475	1430	1250
	196.52	4000	134	400	400	210	630	610	360	1090	860	400	1200	1130	475	1430	1180	515	1550	1360
	231.67	4000	158	470	470	245	745	720	425	1280	1010	470	1420	1330	565	1690	1400	610	1830	1600
	262.22	4000	179	535	535	280	840	810	485	1450	1150	535	1610	1510	635	1910	1580	690	2070	1810
	286.40	4000	196	585	585	305	920	890	530	1590	1250	585	1760	1640	695	2090	1730	750	2260	1980

m [kg]		DRM					
S	s	71M12	90M12	100M12	100L12	132S12	132M12
S97		150	155	165	165	180	195
SF: + 32.7 kg / SA: + -5.4 kg / SAF: + 20.7 kg							


 →  **15**

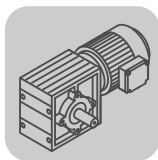


S 97R57

	M _a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M _{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
S97R57 2 2	205	4200	117	350	290	137	410	410	210	640	625	370	1110	870	410	1230	1150
	219	4200							225	685	665	395	1180	930	435	1310	1230
	252	4200	144	430	360	168	500	500	260	790	765	455	1360	1080	500	1510	1410
	287	4200	164	490	410	191	570	570	300	900	870	515	1550	1230	570	1720	1610
	327	4200	187	560	465	215	650	650	340	1020	990	590	1770	1400	650	1960	1830
	376	4200	210	640	535	250	750	750	390	1180	1140	680	2040	1610	750	2250	2110
	420	4200	240	720	600	280	840	840	440	1320	1280	760	2280	1800	840	2520	2360
	484	4200	275	830	690	320	960	960	505	1520	1470	870	2620	2070	960	2900	2720
	538	4200	305	920	765	355	1070	1070	560	1690	1640	970	2920	2300	1070	3220	3020
	626	4200	355	1070	890	415	1250	1250	655	1960	1900	1130	3390	2680	1250	3750	3510
	714	4200	405	1220	1020	475	1420	1420	745	2240	2170	1290	3870	3060	1420	4280	4010
	824	4200	470	1410	1170	545	1640	1640	860	2590	2510	1490	4470	3530	1640	4940	4630
	928	4200	530	1590	1320	615	1850	1850	970	2910	2820	1680	5040	3970	1850	5570	5210
	1070	4200	610	1830	1520	710	2140	2140	1120	3360	3260	1930	5810	4580	2140	6420	6010
	1223	4200	695	2090	1740	810	2440	2440	1280	3840	3720	2210	6640	5240	2440	7340	6870
	1394	4200	795	2390	1990	920	2780	2780	1460	4380	4250	2520	7570	5970	2780	8360	7830
S97R57 2 3	1574	4200	880	2660	2220	1030	3110	3110	1620	4880	4740	2810		6660	3110		
	1860	4200	1050	3150	2620	1220	3670	3670	1920	5770	5600	3320		7870	3670		
	2081	4200	1170	3520	2930	1370	4110	4110	2150	6460	6260	3720			4110		
	2329	4200	1310	3940	3280	1530	4600	4600	2410	7230	7010	4160			4600		
	2654	4200	1490	4490	3740	1740	5240	5240	2740	8240	7990	4740			5240		
	3108	4200	1750	5260	4380	2040	6140	6140	3210			5550			6140		
	3453	4200	1950	5850	4870	2270	6820	6820	3570			6170			6820		
	4017	4200	2260	6800	5670	2640	7940	7940	4150			7180			7940		
	4444	4200	2510	7530	6270	2920			4600			7940					
	4937	4200	2780	8360	6970	3250			5110								
	5780	4200	3260		8160	3800			5980								
	6640	4200	3750			4370			6870								
	7554	4200	4260			4970			7820								
	8608	4200	4860			5670											
	10078	4200	5690			6640											
	11267	4200	6360			7420											
	12752	4200	7200														
	14576	4200	8230														

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
S97R57	🐼 2 🐼 2	160	165	175	180	185
S97R57	🐼 2 🐼 3	165	165	175	180	185
SF: + 32.7 kg / SA: + -5.4 kg / SAF: + 20.7 kg						





13 W..DRM – 60 Hz

13.1 W..DRM

W 20

M_a [Nm]			DRM					
	i	M_{amax}	S1	71S12	S1	S1	71M12	S1
		[Nm]	0.6	1.8	/V	0.7	2.1	/V
					1.5			2.1
W20 	6.57	20	3.9	12	9.7	4.5	14	14
	8.20	20	4.9	15	12	5.7	17	17
	10.25	25	6.1	18	15	7.1	21	21
	14.33	30	8.5	25	21	9.9	30	30
	16.50	30	9.8	29	24	11	34	34
	19.50	35	12	35	29	13	40	40
	24.50	40	15	44	36	17	51	51
	27.50	40	16	49	41	19	57	57
	32.50	40	19	58	48	22	67	67
	39.00	40	23	69	58	27		
	48.00	40	28		71	33		
	60.00	40	36			41		
	75.00	40	44			52		

m [kg]		DRM	
	s	71S12	71M12
W20		9.1	10
WF: + 0.1 kg / WA: + -0.3 kg / WAF: + -0.3 kg			

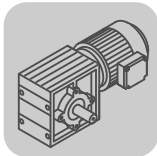
W 30

M_a [Nm]			DRM					
	i	M_{amax}	S1	71S12	S1	S1	71M12	S1
		[Nm]	0.6	1.8	/V	0.7	2.1	/V
					1.5			2.1
W30 	6.57	40	3.9	12	9.7	4.5	14	14
	8.20	40	4.9	15	12	5.7	17	17
	10.25	50	6.1	18	15	7.1	21	21
	14.33	60	8.5	25	21	9.9	30	30
	16.33	60	9.7	29	24	11	34	34
	19.50	70	12	35	29	13	40	40
	24.50	70	15	44	36	17	51	51
	27.50	70	16	49	41	19	57	57
	32.50	70	19	58	48	22	67	67
	39.00	70	23	69	58	27	81	81
	48.00	70	28	85	71	33	100	100
	60.00	70	36	107	89	41	124	124
	75.00	70	44	133	111	52		

m [kg]		DRM	
	s	71S12	71M12
W30		12	13
WF: + 0.4 kg / WA: + -0.3 kg / WAF: + 0.0 kg			

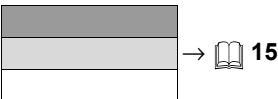


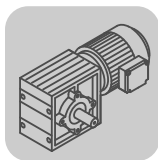
→ 15



W 37

M _a [Nm]			DRM								
i	M _{amax} [Nm]	71S12				71M12			90M12		
		S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	
		0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	
W37  2	3.20	70	1.9	5.6	4.7	2.2	6.6	6.6	3.4	10	10.0
	3.93	70	2.3	6.9	5.8	2.7	8.1	8.1	4.2	13	12
	5.11	70	3.0	9.0	7.5	3.5	10	10	5.5	16	16
	5.77	70	3.4	10	8.4	3.9	12	12	6.2	19	18
	6.97	70	4.1	12	10	4.8	14	14	7.5	22	22
	8.55	70	5.0	15	13	5.8	18	18	9.2	28	27
	9.92	70	5.8	17	15	6.8	20	20	11	32	31
	10.67	90	6.2	19	16	7.3	22	22	11	34	33
	11.65	70	6.8	20	17	8.0	24	24			
	12.70	70	7.4	22	19	8.7	26	26			
	13.89	90	8.1	24	20	9.5	28	28	15	45	43
	15.67	90	9.2	28	23	11	32	32	17	50	49
	18.94	90	11	33	28	13	39	39	20	61	59
	21.33	110	12	37	31	15	44	44	23	69	67
	23.25	90	14	41	34	16	48	48	25	75	73
	26.96	90	16	47	39	18	55	55	29	87	84
	27.78	110	16	49	41	19	57	57	30	89	87
	31.33	110	18	55	46	21	64	64	34	101	98
	31.67	90	19	56	46	22	65	65			
	34.52	90	20	61	51	24	71	71			
	37.88	110	22	67	55	26	78	78	41	122	118
	46.49	110	27	82	68	32	95	95	50	150	145
	53.92	110	32	95	79	37	111	111	58	174	168
	63.33	110	37	111	93	43	130	130			
	69.05	110	40	121	101	47	142	142			
m [kg]			DRM								
	s		71S12			71M12			90M12		
W37	 2		13			14			23		
WF: + 0.0 kg / WA: + 0.0 kg / WAF: + 0.0 kg											



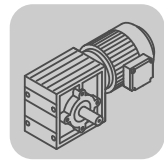

W 37R17

M_a [Nm]			DRM					
i	M_{amax}	[Nm]	S1	71S12	S1	S1	71M12	S1
			0.6	S3	/V	0.7	S3	/V
				1.8	1.5		2.1	2.1
W37R17 	48	90	27	82	69	32	96	96
	53	90	30	91	76	35	106	106
	63	90	36	108	90	42	126	126
	73	90	42	125	104	49	146	146
	82	110	47	141	117	55	164	164
	96	110	55	165	137	64	192	192
	109	110	62	187	156	73	215	215
	125	110	71	210	179	83		
	141	110	81		200	94		
	160	110	91			107		
	184	110	105			123		
	207	110	118			138		
	233	110	133			155		
	267	110	153			178		
	286	110	164			191		
	327	110	187			215		
	359	110	205					
	384	110	215					

m [kg]		DRM	
	s	71S12	71M12
W37R17		15	17
W37R17		15	17

WF: + 0.0 kg / WA: + 0.0 kg / WAF: + 0.0 kg

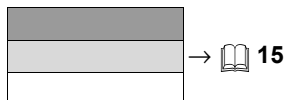
 →  **15**

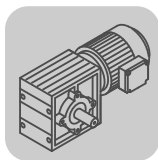


W 47

	M_a [Nm]		71S12			71M12			DRM 90M12			100M12			100L12		
	i	M_{amax}	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V	S1	S3	S1 /V
		[Nm]	0.6	1.8	1.5	0.7	2.1	2.1	1.1	3.3	3.2	1.9	5.7	4.5	2.1	6.3	5.9
W47 	3.27	110	1.9	5.7	4.8	2.2	6.7	6.7	3.5	11	10	6.1	18	14	6.7	20	19
	3.89	110	2.3	6.8	5.7	2.7	8.0	8.0	4.2	13	12	7.2	22	17	8.0	24	22
	4.40	110	2.6	7.7	6.4	3.0	9.0	9.0	4.7	14	14	8.2	24	19	9.0	27	25
	5.23	110	3.1	9.2	7.7	3.6	11	11	5.6	17	16	9.7	29	23	11	32	30
	5.58	110	3.3	9.8	8.2	3.8	11	11	6.0	18	17	10	31	25	11	34	32
	6.53	110	3.8	11	9.6	4.5	13	13	7.0	21	20	12	36	29	13	40	38
	7.32	110	4.3	13	11	5.0	15	15	7.9	24	23	14	41	32	15	45	42
	8.61	110	5.0	15	13	5.9	18	18	9.2	28	27	16	48	38	18	53	50
	9.96	110	5.8	18	15	6.8	20	20	11	32	31	18	55	44	20	61	57
	10.66	110	6.2	19	16	7.3	22	22	11	34	33	20	59	47	22	66	61
	11.32	160	6.6	20	17	7.7	23	23	12	36	35	21	63	50	23	70	65
	12.30	110	7.2	22	18	8.4	25	25	13	40	38	23	68	54	25	76	71
	13.44	160	7.9	24	20	9.2	28	28	14	43	42	25	75	59	28	83	77
	14.35	160	8.4	25	21	9.8	29	29	15	46	45	27	80	63	29	88	83
	16.80	160	9.8	30	25	11	34	34	18	54	52	31	93	74	34	103	97
	18.82	160	11	33	28	13	39	39	20	61	59	35	105	83	39	116	108
	22.15	160	13	39	32	15	45	45	24	71	69	41	123	97	45	136	128
	25.07	180	15	44	37	17	51	51	27	81	78	46	139	110	51	154	144
	25.62	160	15	45	38	18	53	53	28	83	80	48	143	113	53	158	148
	26.76	180	16	47	39	18	55	55	29	86	84	50	149	118	55	165	154
	27.41	160	16	48	40	19	56	56	29	88	86	51	153	120	56	169	158
	31.33	180	18	55	46	21	64	64	34	101	98	58	174	138	64	193	180
	31.62	160	19	56	46	22	65	65	34	102	99	59	176	139	65	194	182
	35.09	180	21	62	51	24	72	72	38	113	110	65	195	154	72	215	200
	41.30	180	24	73	60	28	85	85	44	133	129	77	225	181	85	250	235
	47.78	180	28	84	70	33	98	98	51	154	149	89	265	205	98	290	275
	51.12	180	30	90	75	35	105	105	55	165	160	95	280	220	105	310	290
	58.98	180	35	104	86	40	121	121	63	190	184	109	325	255	121		335
	68.93	180	40	121	101	47	141	141									
	74.98	180	44	132	110	51	154	154									

m [kg]		DRM				
s		71S12	71M12	90M12	100M12	100L12
W47		18	19	29	37	40
WF: + 0.5 kg / WA: + -1.5 kg / WAF: + -0.7 kg						



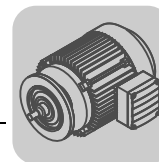

W 47R17

M_a [Nm]			DRM					
i	M_{amax}	[Nm]	S1	71S12	S1	S1	71M12	S1
			0.6	S3	/V	0.7	S3	/V
				1.8	1.5		2.1	2.1
W47R17 	72	160	41	123	103	48	144	144
	77	160	44	132	110	51	154	154
	85	160	49	146	121	57	170	170
	95	160	54	163	136	63	190	190
	105	160	60	180	150	70	210	210
	120	180	69	205	172	80	240	240
	124	160	71	210	177	83	245	245
	141	180	81	240	200	94	280	280
	159	180	91	270	225	106	315	315
	183	180	105	310	260	122		
	210	180	120		300	140		
	237	180	135		335	158		
	265	180	152			177		
	270	180	154			180		
	291	180	166			194		
	318	180	182			210		
	359	180	205			235		
	386	180	220			255		
	434	180	245			285		
	473	180	270			315		
	536	180	305			355		
	596	180	340					

m [kg]		DRM	
s		71S12	71M12
		21	22
		21	22

WF: + 0.5 kg / WA: + -1.5 kg / WAF: + -0.7 kg

 →  **15**



14 Motor Data

14.1 Key to the motor data

The following table lists the short symbols used in the "Technical Data" tables.

n_N	Rated speed
M_0	Rated torque
M_{0V}	Rated torque for motor with forced cooling
I_0	Rated current
I_{0V}	Rated current for motor with forced cooling
$\cos\varphi$	Power factor
J_{mot}	Mass moment of inertia of the motor
BE..	Brake used
M_B	Braking torque



14.2 Motor data 50 Hz, 400 V

Motor data S1 duty, fan-cooled

DRM.. motor type	n_N in rpm	M_0 in Nm	I_0 in A	$\cos\varphi$	J_{Mot} in 10^{-4} kgm^2	BE..	$M_B^{1)}$ in Nm
DRM71S12	500	0.7	0.26	0.76	8.1	BE05	1.8
DRM71M12	500	0.9	0.31	0.69	11.7	BE05	1.8
DRM90M12	500	1.3	0.51	0.56	33.9	BE1	5
DRM100M12	500	2.3	0.8	0.50	54.4	BE2	5
DRM100L12	500	2.6	0.88	0.49	66.7	BE2	5
DRM132S12	500	2.9	1.53	0.31	190	BE5	14
DRM132M12	500	3.6	2.05	0.29	253	BE5	14

1) You find the other braking torques for the respective brakes in the "AC Motors" catalog.

Motor data S3 duty (15%), fan-cooled

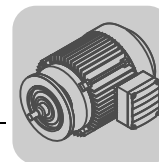
DRM.. motor type	n_N in rpm	M_0 in Nm	I_0 in A	$\cos\varphi$	J_{Mot} in 10^{-4} kgm^2	BE..	$M_B^{1)}$ in Nm
DRM71S12	500	2.1	0.78	0.76	8.1	BE05	1.8
DRM71M12	500	2.7	0.93	0.69	11.7	BE05	1.8
DRM90M12	500	3.9	1.53	0.56	33.9	BE1	5
DRM100M12	500	6.9	2.4	0.50	54.4	BE2	5
DRM100L12	500	7.8	2.65	0.49	66.7	BE2	5
DRM132S12	500	8.7	4.6	0.31	190	BE5	14
DRM132M12	500	10.8	6.2	0.29	253	BE5	14

1) You find the other braking torques for the respective brakes in the "AC Motors" catalog.

Motor data S1 duty, with forced cooling fan

DRM.. motor type	n_N in rpm	M_{0V} in Nm	I_{0V} in A	$\cos\varphi$	J_{Mot} in 10^{-4} kgm^2	BE..	$M_B^{1)}$ in Nm
DRM71S12	500	1.9	0.61	0.75	8.1	BE05	5
DRM71M12	500	2.7	0.85	0.72	11.7	BE1	7
DRM90M12	500	3.9	1.09	0.58	33.9	BE1	10
DRM100M12	500	5	1.52	0.52	54.4	BE2	10
DRM100L12	500	7	1.85	0.55	66.7	BE2	14
DRM132S12	500	7.2	3.2	0.34	190	BE5	20
DRM132M12	500	8.7	4.25	0.32	253	BE5	20

1) You find the other braking torques for the respective brakes in the "AC Motors" catalog.



14.3 Motor data 60 Hz, 380 V

Motor data S1 duty, fan-cooled

DRM.. motor type	n_N in rpm	M_0 in Nm	I_0 in A	$\cos\varphi$	J_{Mot} in 10^{-4} kgm^2	BE..	$M_B^{1)}$ in Nm
DRM71S12	600	0.6	0.28	0.70	8.1	BE05	1.8
DRM71M12	600	0.7	0.315	0.63	11.7	BE05	1.8
DRM90M12	600	1.1	0.58	0.49	33.9	BE1	5
DRM100M12	600	1.9	0.92	0.44	54.4	BE2	5
DRM100L12	600	2.1	0.99	0.43	66.7	BE2	5
DRM132S12	600	2.5	1.78	0.28	190	BE5	14
DRM132M12	600	2.7	2.3	0.24	253	BE5	14

1) You find the other braking torques for the respective brakes in the "AC Motors" catalog.

Motor data S3 duty (15%), fan-cooled

DRM.. motor type	n_N in rpm	M_0 in Nm	I_0 in A	$\cos\varphi$	J_{Mot} in 10^{-4} kgm^2	BE..	$M_B^{1)}$ in Nm
DRM71S12	600	1.8	0.84	0.70	8.1	BE05	1.8
DRM71M12	600	2.1	0.94	0.63	11.7	BE05	1.8
DRM90M12	600	3.3	1.74	0.49	33.9	BE1	5
DRM100M12	600	5.7	2.75	0.44	54.4	BE2	5
DRM100L12	600	6.3	3	0.43	66.7	BE2	5
DRM132S12	600	7.5	5.3	0.28	190	BE5	14
DRM132M12	600	8.1	7	0.24	253	BE5	14

1) You find the other braking torques for the respective brakes in the "AC Motors" catalog.

Motor data S1 duty, with forced cooling fan

DRM.. motor type	n_N in rpm	M_{0V} in Nm	I_{0V} in A	$\cos\varphi$	J_{Mot} in 10^{-4} kgm^2	BE..	$M_B^{1)}$ in Nm
DRM71S12	600	1.5	0.65	0.70	8.1	BE05	3.5
DRM71M12	600	2.1	0.88	0.66	11.7	BE05	5
DRM90M12	600	3.2	1.22	0.55	33.9	BE1	7
DRM100M12	600	4.5	1.73	0.48	54.4	BE2	10
DRM100L12	600	5.9	2.1	0.50	66.7	BE2	14
DRM132S12	600	6.2	4	0.30	190	BE5	14
DRM132M12	600	7.1	4.9	0.29	253	BE5	20

1) You find the other braking torques for the respective brakes in the "AC Motors" catalog.



14.4 Motor data 60 Hz, 460 V

Motor data S1 duty, fan-cooled

DRM.. motor type	n_N in rpm	M_0 in Nm	I_0 in A	$\cos\varphi$	J_{Mot} in 10^{-4} kgm ²	BE..	$M_B^{1)}$ in Nm
DRM71S12	600	0.6	0.23	0.70	8.1	BE05	1.8
DRM71M12	600	0.7	0.26	0.63	11.7	BE05	1.8
DRM90M12	600	1.1	0.48	0.49	33.9	BE1	5
DRM100M12	600	1.9	0.76	0.44	54.4	BE2	5
DRM100L12	600	2.1	0.82	0.43	66.7	BE2	5
DRM132S12	600	2.5	1.47	0.28	190	BE5	14
DRM132M12	600	2.7	1.92	0.24	253	BE5	14

1) You find the other braking torques for the respective brakes in the "AC Motors" catalog.

Motor data S3 duty (15%), fan-cooled

DRM.. motor type	n_N in rpm	M_0 in Nm	I_0 in A	$\cos\varphi$	J_{Mot} in 10^{-4} kgm ²	BE..	$M_B^{1)}$ in Nm
DRM71S12	600	1.8	0.69	0.70	8.1	BE05	1.8
DRM71M12	600	2.1	0.78	0.63	11.7	BE05	1.8
DRM90M12	600	3.3	1.44	0.49	33.9	BE1	5
DRM100M12	600	5.7	2.3	0.44	54.4	BE2	5
DRM100L12	600	6.3	2.45	0.43	66.7	BE2	5
DRM132S12	600	7.5	4.4	0.28	190	BE5	14
DRM132M12	600	8.1	5.8	0.24	253	BE5	14

1) You find the other braking torques for the respective brakes in the "AC Motors" catalog.

Motor data S1 duty, with forced cooling fan

DRM.. motor type	n_N in rpm	M_{0V} in Nm	I_{0V} in A	$\cos\varphi$	J_{Mot} in 10^{-4} kgm ²	BE..	$M_B^{1)}$ in Nm
DRM71S12	600	1.5	0.54	0.70	8.1	BE05	3.5
DRM71M12	600	2.1	0.73	0.66	11.7	BE05	5
DRM90M12	600	3.2	1.01	0.55	33.9	BE1	7
DRM100M12	600	4.5	1.43	0.48	54.4	BE2	10
DRM100L12	600	5.9	1.74	0.50	66.7	BE2	14
DRM132S12	600	6.2	3.3	0.30	190	BE5	14
DRM132M12	600	7.1	4.05	0.29	253	BE5	20

1) You find the other braking torques for the respective brakes in the "AC Motors" catalog.



15 Project Planning for Drives

15.1 Information about the project planning of torque gearmotors

This chapter explains the specific project planning information for torque gearmotors.

You find general information on drive selection in the "DRE/DRS Gearmotors" catalog and the "Gear Units and AC Motors" catalog.

The combination overviews are based on an input speed = 0 and are intended to serve as orientation for project planning.

The values in the combination overviews were calculated taking account of the respective efficiency levels.

15.2 Standards and regulations

Conformity with standards

AC (brake)motors and servo (brake)motors from SEW-EURODRIVE conform to the relevant standards and regulations, in particular:

- IEC 60034-1, EN 60034-1
Rotating electrical machines, rating and performance.
- IEC 60034-2-1, EN 60034-2-1
Rotating electrical machines, determining losses and efficiency.
- IEC 60034-9, EN 60034-9
Rotating electrical machines, noise limits.
- IEC 60034-14, EN 60034-14
Rotating electrical machines, vibration levels.
- IEC 60034-30
Rotating electrical machines, classification of efficiency levels IE1, IE2, IE3.
- EN 60529, IEC 60034-5, EN 60034-5
IP degrees of protection for enclosures.
- IEC 60072
Dimensions and performance of rotating electrical machines.
- EN 50262
Metric threads of cable glands.
- EN 50347
Standardized dimensions and power ranges.



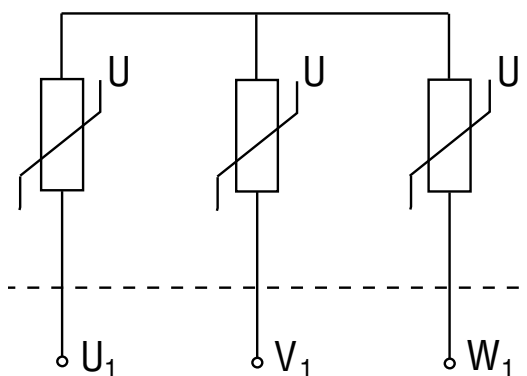
15.3 Motor protection

Thermal motor protection is realized by TF temperature sensors or TH bimetallic switches built into the end winding of the motors. The trigger temperature is slightly lower than the limit value of the thermal classification to achieve maximum motor protection. Temperature sensor TF and bimetallic switch TH are available with the following trigger temperatures:

Thermal class	Trigger temperature (nominal response temperature with TF) (rated switching temperature for TH) DRM71 - 132
155 (F)	150 °C

15.4 Special aspects of torque motors and low-speed motors

Due to the design of torque motors and low-speed motors, very high induction voltages may be generated when they are switched off. SEW-EURODRIVE recommends using the varistor circuit shown below for protection. The size of the varistors depends, among other factors, on the starting frequency – note for project planning!

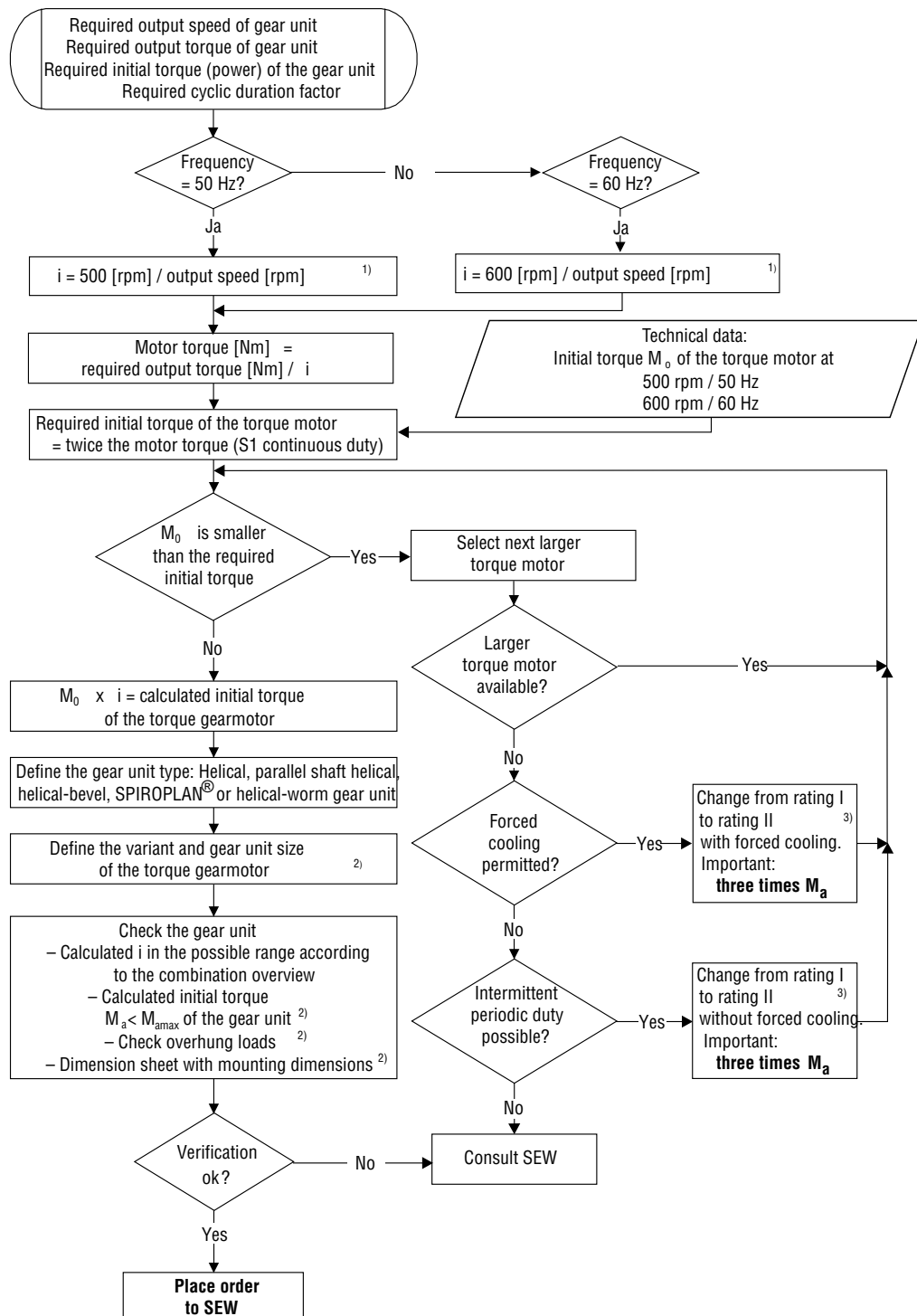


Varistor overvoltage protection can be obtained from SEW-EURODRIVE.



15.5 Project planning procedure

The following diagram shows the project planning process for a torque gearmotor.



1) The speeds 500 and 600 rpm during operation with half the initial torque only serve to calculate the required gear ratio

2) See the DRE/DRS Gearmotors catalog

3) **Rating I:** S1 duty type / 100% cdf; **rating II:** S3 duty type / 15% cdf



INFORMATION

SEW-EURODRIVE recommends using a TF temperature sensor for S3 duty type / 15% cdf or for operation with forced cooling fan.

15.6 Drive selection data

Certain data is required to be able to precisely define the components for your drive. These are:

Drive selection data			Your entry
$n_{a \min}$	Minimum output speed	1/min	
$n_{a \max}$	Maximum output speed	1/min	
P_a at $n_{a \min}$	Output power at minimum output speed	kW	
P_a at $n_{a \max}$	Output power at maximum output speed	kW	
M_a at $n_{a \min}$	Output torque at minimum output speed	Nm	
M_a at $n_{a \max}$	Output torque at maximum output speed	Nm	
F_R	Overhung loads acting on the output shaft. Force application in center of shaft end is assumed. If not, specify the exact application point giving the application angle and direction of rotation of the shaft for recalculation.	N	
F_A	Axial load (tension and compression) on the output shaft	N	
J_{Last}	Mass moment of inertia to be driven	10^{-4} kgm^2	
R, F, K, S, W $M1 - M6$	Required gear unit type and mounting position (→ Catalog "DRE/DRS Gearmotors" chapter Mounting Position, churning losses)	-	
$IP..$	Required degree of protection	-	
ϑ_{Umg}	Ambient temperature	°C	
H	Installation altitude	m above sea level	
$S.., ..\% \text{ cdf}$	Duty type and cyclic duration factor (cdf) or exact load cycle can be entered.	-	
Z	Starting frequency; alternatively, exact load cycle can be specified	1/h	
f_{line}	Line frequency	Hz	
V_{mot} V_{brake}	Operating voltage of motor and brake	V	
M_B	Required braking torque	Nm	

Determining the motor data

First, you require the data (mass, speed, setting range, etc.) of the machine to be driven to select the correct drive.

These data help determine the required power, torque and speed. Refer to the "Drive Engineering – Practical Implementation, Drive Planning" publication or the SEW Workbench project planning software for assistance.

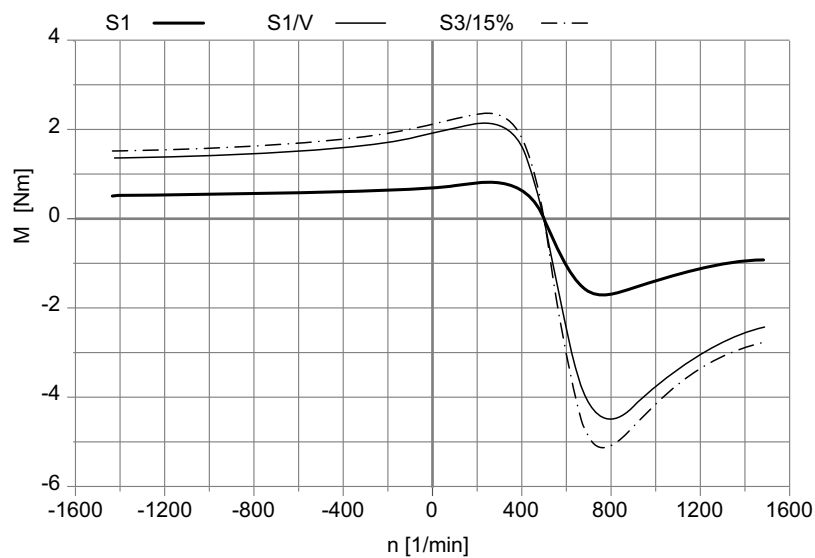
Selecting the proper drive

The appropriate drive can be determined with the calculated power and speed and with other mechanical requirements taken into account.



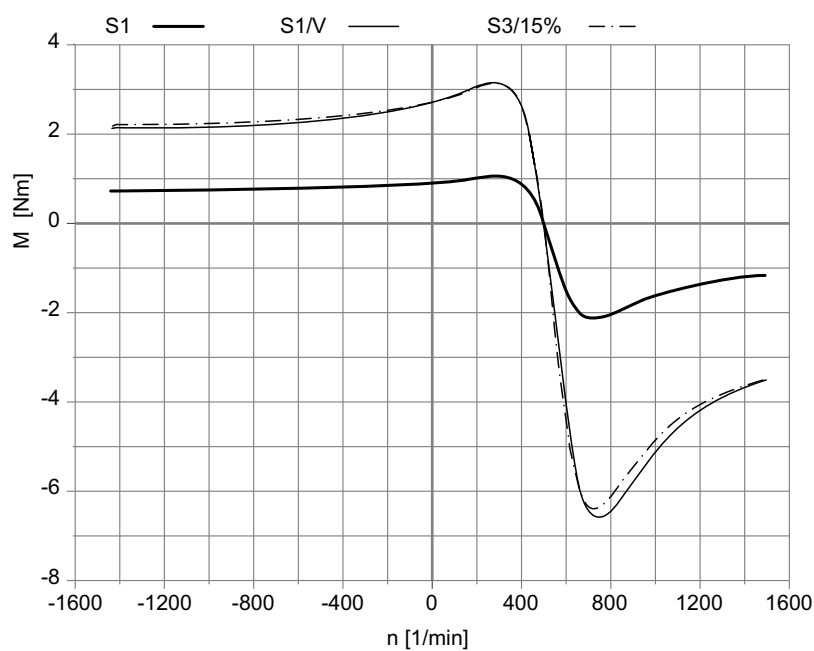
15.7 Speed-torque characteristics of DRM motors, 50 Hz

DRM71S12, 50 Hz



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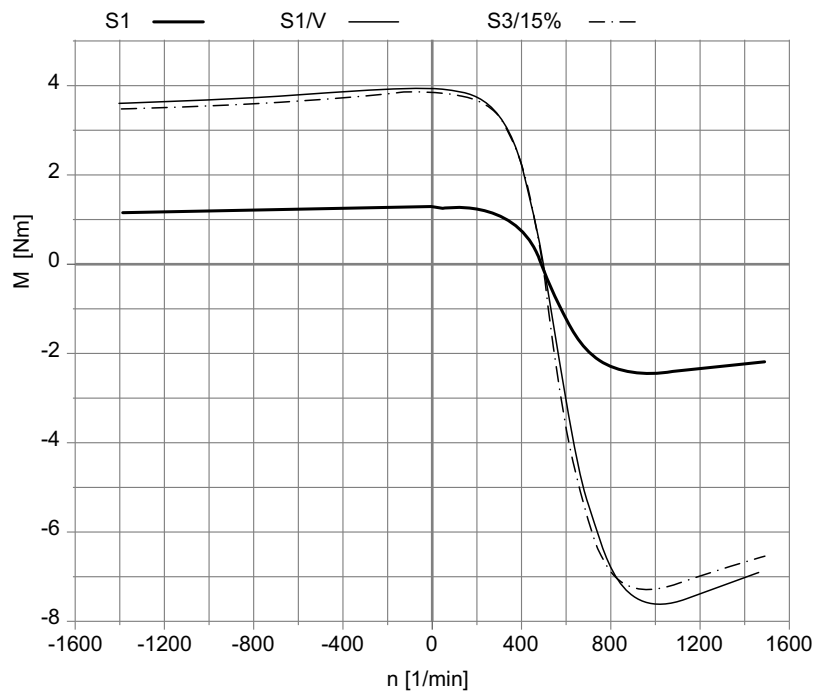
DRM71M12, 50 Hz



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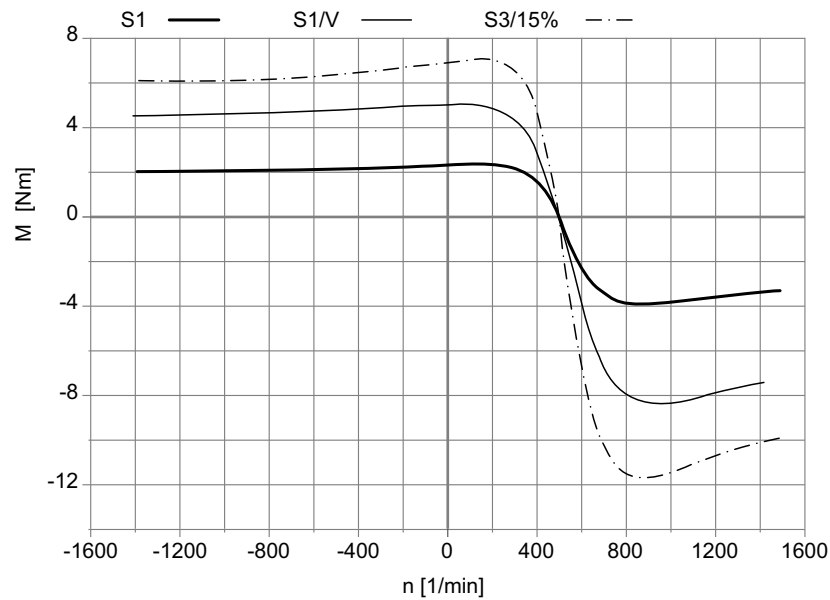


DRM90M12, 50 Hz



68989axx

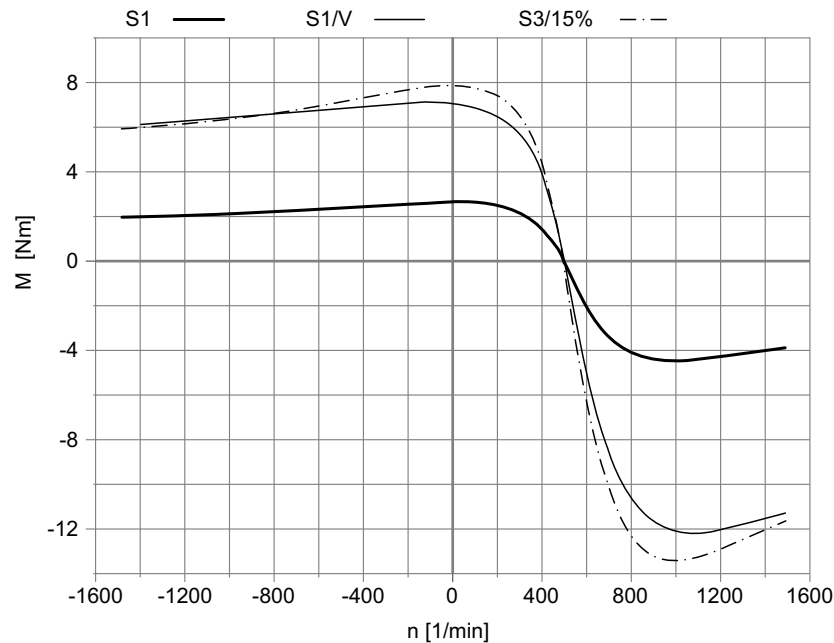
DRM100M12, 50 Hz



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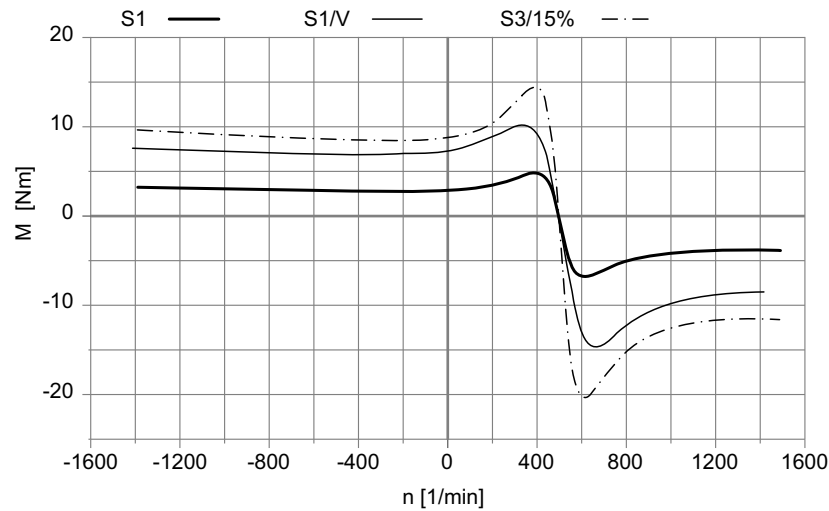


DRM100L12, 50 Hz



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DRM132S12, 50 Hz



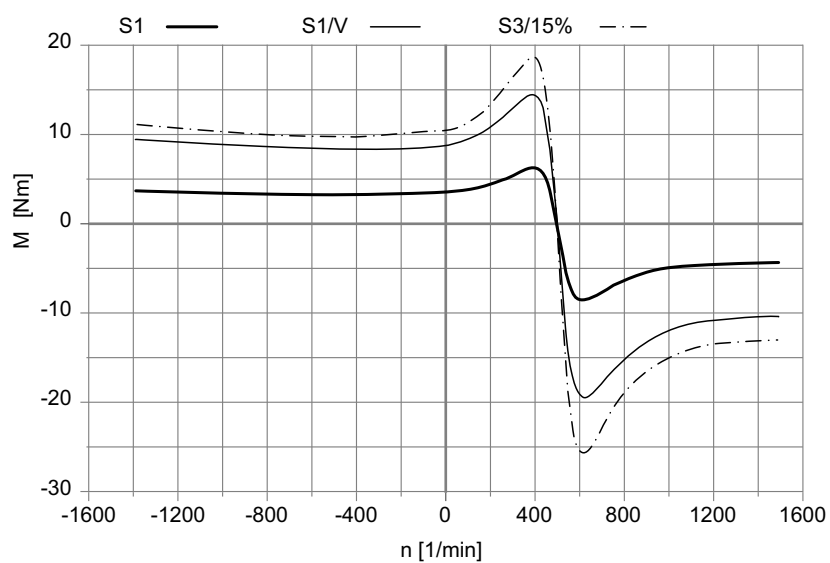
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Project Planning for Drives

Speed-torque characteristics of DRM motors, 50 Hz

DRM132M12, 50 Hz

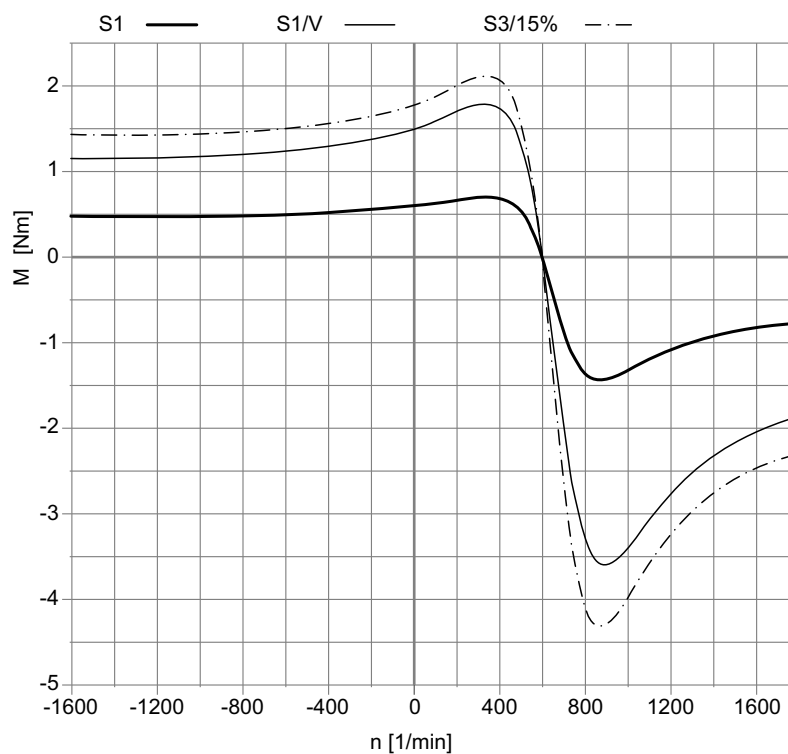


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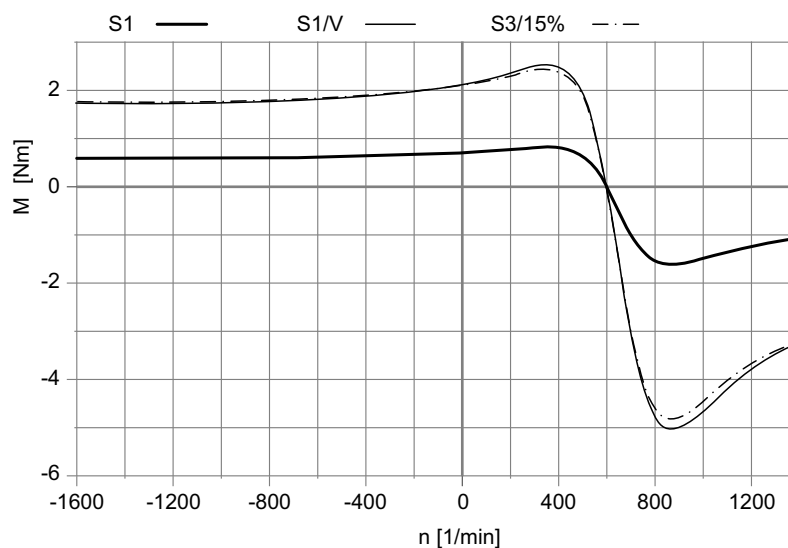
15.8 Speed-torque characteristics of DRM motors, 60 Hz

DRM71S12, 60 Hz



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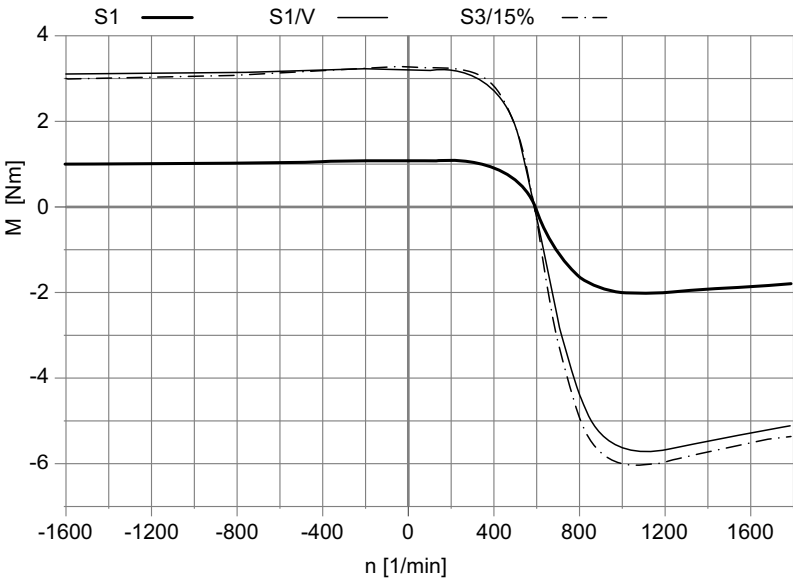
DRM71M12, 60 Hz



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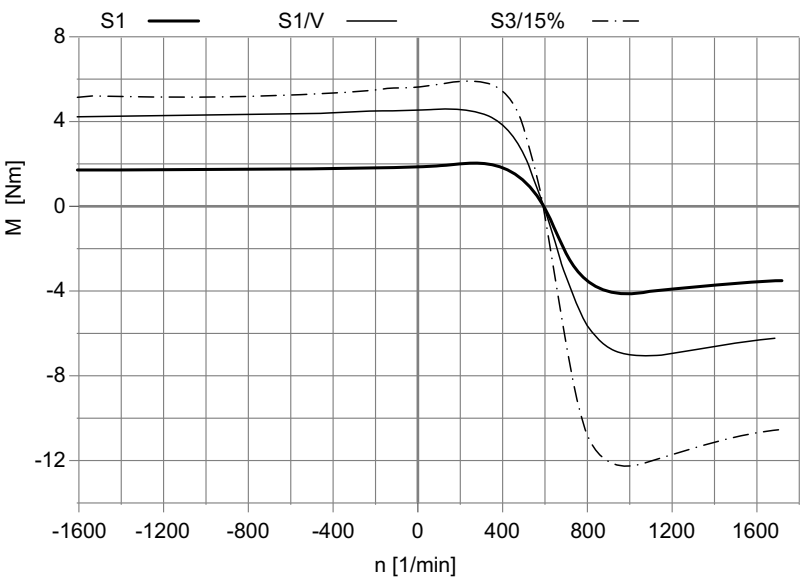


DRM90M12, 60 Hz



68996axx

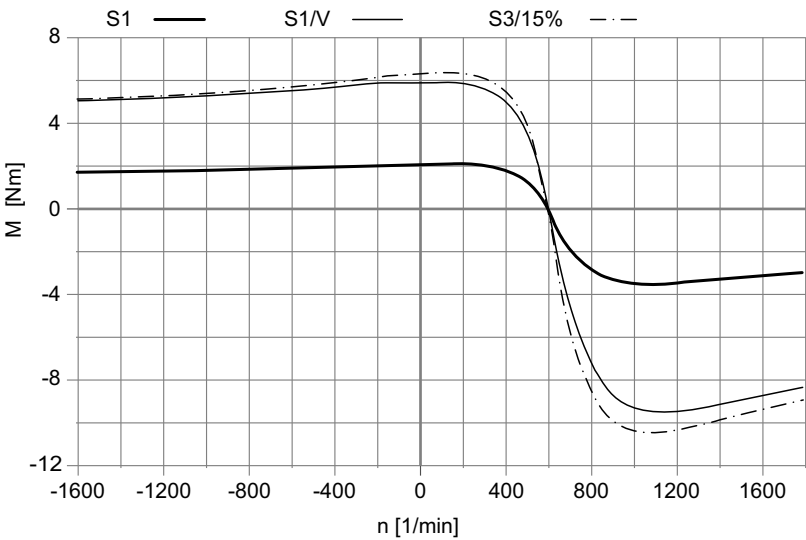
DRM100M12, 60 Hz



68997axx

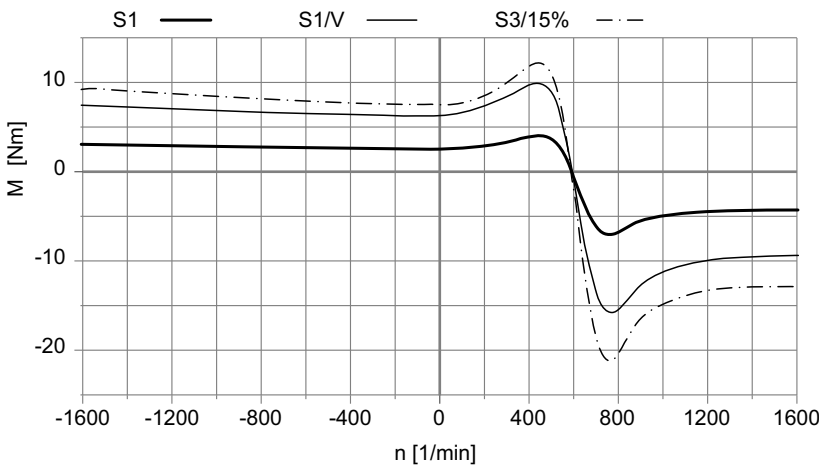


DRM100L12, 60 Hz



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DRM132S12, 60 Hz



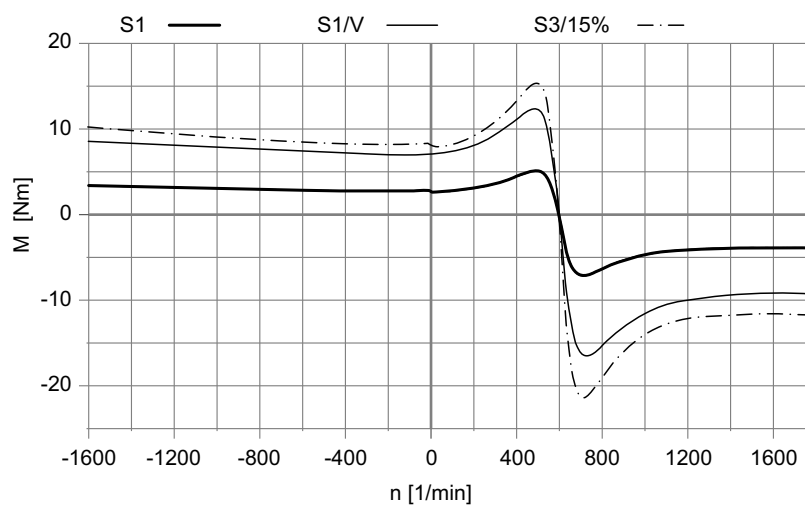
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Project Planning for Drives

Speed-torque characteristics of DRM motors, 60 Hz

DRM132M12, 60 Hz



69000axx



16 Address Directory

Germany			
Headquarters Production Sales	Bruchsal	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 42 D-76646 Bruchsal P.O. Box Postfach 3023 • D-76642 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-1970 http://www.sew-eurodrive.de sew@sew-eurodrive.de
	Bruchsal	SEW-EURODRIVE GmbH & Co KG Christian-Pähr-Str.10 D-76646 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-2970
Production	Graben	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 1 D-76676 Graben-Neudorf P.O. Box Postfach 1220 • D-76671 Graben-Neudorf	Tel. +49 7251 75-0 Fax +49 7251 75-2970
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	East	SEW-EURODRIVE GmbH & Co KG Dankritzer Weg 1 D-08393 Meerane (near Zwickau)	Tel. +49 3764 7606-0 Fax +49 3764 7606-30 sc-ost@sew-eurodrive.de
	South	SEW-EURODRIVE GmbH & Co KG Domagkstraße 5 D-85551 Kirchheim (near München)	Tel. +49 89 909552-10 Fax +49 89 909552-50 sc-sued@sew-eurodrive.de
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Technical Offices	Ahmedabad	SEW-EURODRIVE India Private Limited 306, Shaan office complex, Behind Sakar-IV, Ellisebridge, Ashram Road Ahmedabad – Gujarat	Tel. +91 79 40072067/68 Fax +91 79 40072069 salesahmedabad@seweurodriveindia.com
	Bangladesh	SEW-EURODRIVE INDIA PRIVATE LIMITED Genetic Udayanchal, House-96 (6th Floor), Road-23/A, Block-B, Banani, Dhaka-1213, Bangladesh	Mobile +88 01729 097309 salesdhaka@seweurodrivebangladesh.com
	Bengaluru	SEW-EURODRIVE India Private Limited 308, Prestige Centre Point 7, Edward Road Bengaluru - 560052 - Karnataka	Tel. +91 80 22266565 Fax +91 80 22266569 salesbangalore@seweurodriveindia.com
	Chennai	SEW-EURODRIVE India Private Limited 2nd Floor, Josmans Complex, No. 5, McNichols Road, Chetpet Chennai - 600031 - Tamil Nadu	Tel. +91 44 42849813 Fax +91 44 42849816 saleschennai@seweurodriveindia.com
	Coimbatore	SEW-EURODRIVE INDIA PRIVATE LIMITED 687/2, SRI SAKTHIVEL TOWERS (NEAR DEEPAM HOSPITAL) TRICHY ROAD, RAMANATHAPURAM COIMBATORE - 641 045.Tamilnadu	Tel. +91 422 2322420 Fax +91 422 2323988 salescoimbatore@seweurodriveindia.com
	Cuttack	SEW-EURODRIVE India Private Limited Plot No.- 1764, Nuasahi, Nayapalli Bhubaneswar-12 Orissa	Tel. +91 9937446333 salescuttack@seweurodriveindia.com
	Hyderabad	SEW-EURODRIVE India Private Limited 408, 4th Floor, Meridian Place Green Park Road Amerpet Hyderabad - 500016 - Andhra Pradesh	Tel. +91 40 23414698 Fax +91 40 23413884 saleshyderabad@seweurodriveindia.com
	Jamshedpur	SEW-EURODRIVE India Private Limited Flat No.: B/2, B.S. Apartment Road No.: 4, Contractor's area, Bistupur Jamshedpur 831 001 - Chhattisgarh	Tel. +91 9934123671 salesjamshedpur@seweurodriveindia.com
	Kolkata	SEW EURODRIVE India Private Limited 2nd floor, Room No. 35 Chowringhee Court 55, Chowringhee Road Kolkata - 700 071 - West Bengal	Tel. +91 33 22827457 Fax +91 33 22894204 saleskolkata@seweurodriveindia.com
	Lucknow	SEW-EURODRIVE India Private Limited 69, Shiv Vihar Colony Vikas Nagar-5 Lucknow 226022 - Uttar Pradesh	Tel. +91 9793627333 saleslucknow@seweurodriveindia.com



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	Nashik	SEW-EURODRIVE India Private Limited 107, "YOG" Bungalow, Mahatama Nagar, Trimbak Road, Nashik, Maharashtra – 422 007	Tel. +91 9665752978 salesnashik@seweurodriveindia.com
	New Delhi	SEW-EURODRIVE India Private Limited 1008, 10th Floor, 12th Level 'Westend Mall' Tower Plot, District Centre Adjacent Hotel Hilton Janak Puri, New Delhi – 110058	Tel. +91 11 25544111 Fax +91 11 25544113 salesdelhi@seweurodriveindia.com
	Pune	SEW-EURODRIVE India Private Limited Lunawat Prism 4th floor, S. No. 148, Neena Co-Operative Housing Society, Paud Road, Pune 411038 - Maharashtra	Tel. +91 20 25380730 / 735 Fax +91 20 25380721 salespune@seweurodriveindia.com
	Raipur	SEW-EURODRIVE India Private Limited A-42, Ashoka Millenium Complex, Ring Road-1, Raipur 492 001 - Chhattisgarh	Tel. +91 771 4090765 Fax +91 771 4090765 salesraipur@seweurodriveindia.com
	Ranchi	SEW-EURODRIVE India Private Limited Flat No : A - 101, Krishna Shree Apartment, Anantpur, P.O. Doranda – Ranchi 834002	Tel. +91 8294630772 salesranchi@seweurodriveindia.com
	Tiruchirappalli	SEW-EURODRIVE India Private Limited A-106, Trichy Towers, Chandrasekarapuram, Salai Road, Trichy – 620018.	Mobile +91 95009 88081 salestrichy@seweurodriveindia.com
	Vadodara	SEW-EURODRIVE India Private Limited Unit No. 301, Savorite Bldg, Plot No. 143, Vinayak Society, off old Padra Road, Vadodara - 390 007. Gujarat	Tel. +91 265 2325258 Fax +91 265 2325259 salesvadodara@seweurodriveindia.com
	Vijayawada	SEW-EURODRIVE India Private Limited Door No: 40-5/3-10A, Shyam Nagar, Tikkle Road, NGO's Colony, Vijayawada, A.P. – 520010	Tel. +91 9989501748 Fax +91 866-2475157 salesvijayawada@seweurodriveindia.com
Indonesia			
Sales	Jakarta	PT. Cahaya Sukses Abadi Komplek Rukan Puri Mutiara Blok A no 99, Sunter Jakarta 14350	Tel: +62 21 65310599 Fax: +62 21 65310600 csajkt@cbn.net.id
		PT. Agrindo Putra Lestari Jl.Prof.DR.Latumenten no27/A Jakarta 11330	Tel: +62 21 63855588 Fax: +62 21 63853789 aplindo@indosat.net.id
		PT. Sentratek Adiprestasi Jl. Industri Raya I, Komp. Gunung Sahari 8 Block B-3 Gunung Sahari Utara, Sawah B Jakarta 10720	Tel: +62 21 6398122 Fax: +62 21 6499264 adm_samit@yahoo.co.id roberto_samit@yahoo.co.id



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	Medan	PT. Serumpun Indah Lestari Pulau Solor no. 8, Kawasan Industri Medan II Medan 20252	Tel. +62 61 687 1221 Fax +62 61 6871429 / +62 61 6871458 / +62 61 30008041 sil@serumpunindah.com serumpunindah@yahoo.com
	Surabaya	PT. TRIAGRI JAYA ABADI Jl. Sukosemolo No. 63, Galaxi Bumi Permai G6 No. 11 Surabaya 60122	Tel: +62 31 5990128 Fax: +62 31 5962666 triagri@indosat.net.id
		CV. Multi Mas Jl. Raden Saleh 43A Kav. 18 Surabaya 60174	Tel: +62 31 5458589 / +62 31 5317224 Fax: +62 31 5317220 / +62 31 5994629 sianhwa@sby.centrin.net.id
Ireland			
Sales Service	Dublin	Alpertor Engineering Ltd. 48 Moyle Road Dublin Industrial Estate Glasnevin, Dublin 11	Tel. +353 1 830-6277 Fax +353 1 830-6458 info@alperton.ie http://www.alperton.ie
Israel			
Sales	Tel-Aviv	Liraz Handasa Ltd. Ahofer Str 34B / 228 58858 Holon	Tel. +972 3 5599511 Fax +972 3 5599512 http://www.liraz-handasa.co.il office@liraz-handasa.co.il
Italy			
Assembly Sales Service	Solaro	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Via Bernini,14 I-20020 Solaro (Milano)	Tel. +39 02 96 9801 Fax +39 02 96 799781 http://www.sew-eurodrive.it sewit@sew-eurodrive.it
Technical Offices	Bologna	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Via della Grafica, 47 I-40064 Ozzano dell'Emilia (Bo)	Tel. +39 051 65-23-801 Fax +39 051 796-595
	Caserta	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Viale Carlo III Km. 23,300 I-81020 S. Nicola la Strada (Caserta)	Tel. +39 0823 219011 Fax +39 0823 421414
	Milan	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Via Bernini,14 I-20020 Solaro (Milano)	Tel. +39 02 96 980229 Fax +39 02 96 799781
	Pescara	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Viale Europa,132 I-65010 Villa Raspa di Spoltore (PE)	Tel. +39 085 41-59-427 Fax +39 085 41-59-643
	Torino	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Filiale Torino c.so Unione Sovietica 612/15 - int. C I-10135 Torino	Tel. +39 011 3473780 Fax +39 011 3473783
	Verona	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Via P. Sgulmero, 27/A I-37132 Verona	Tel. +39 045 89-239-11 Fax +39 045 97-6079
Ivory Coast			
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Assembly Sales Service	Iwata	SEW-EURODRIVE JAPAN CO., LTD 250-1, Shimoman-no, Iwata Shizuoka 438-0818	Tel. +81 538 373811 Fax +81 538 373855 http://www.sew-eurodrive.co.jp sewjapan@sew-eurodrive.co.jp
Technical Offices	Fukuoka	SEW-EURODRIVE JAPAN CO., LTD. C-go, 5th-floor, Yakuin-Hiruzu-Bldg. 1-5-11, Yakuin, Chuo-ku Fukuoka, 810-0022	Tel. +81 92 713-6955 Fax +81 92 713-6860 sewkyushu@jasmine.ocn.ne.jp
	Osaka	SEW-EURODRIVE JAPAN CO., LTD. Higobashi Shimizu Bldg. 10th floor 1-3-7 Tosabori, Nishi-ku Osaka, 550-0001	Tel. +81 6 6444--8330 Fax +81 6 6444--8338 sewosaka@crocus.ocn.ne.jp
	Tokyo	SEW-EURODRIVE JAPAN CO., LTD. Omarimon Yusen Bldg. 13th floor 3-23-5 Nishinbashi, Minato-ku Tokyo 105-0003	Tel. +81 3 3239-0469 Fax +81 3 3239-0943 sewtokyo@basil.ocn.ne.jp
Kazakhstan			
Sales	Almaty	TOO "СЕВ-ЕВРОДРАЙВ" пр.Райымбека, 348 050061 г. Алматы Республика Казахстан	Тел. +7 (727) 334 1880 Факс +7 (727) 334 1881 http://www.sew-eurodrive.kz sew@sew-eurodrive.kz
Latvia			
Sales	Riga	SIA Alas-Kuul Katlakalna 11C LV-1073 Riga	Tel. +371 6 7139253 Fax +371 6 7139386 http://www.alas-kuul.com info@alas-kuul.com
Lebanon			
Sales	Beirut	Gabriel Acar & Fils sarl B. P. 80484 Bourj Hammoud, Beirut	Tel. +961 1 510 532 Fax +961 1 494 971 ssacar@inco.com.lb
Jordan Kuwait Saudi Arabia Syria	Beirut	Middle East Drives S.A.L. (offshore) Sin El Fil. B. P. 55-378 Beirut	Tel. +961 1 494 786 Fax +961 1 494 971 info@medrives.com http://www.medrives.com
Lithuania			
Sales	Alytus	UAB Irseva Statybininku 106C LT-63431 Alytus	Tel. +370 315 79204 Fax +370 315 56175 irmantas@irseva.lt http://www.sew-eurodrive.lt
Luxembourg			
Assembly Sales Service	Brussels	SEW-EURODRIVE n.v./s.a. Researchpark Haasrode 1060 Evenementenlaan 7 BE-3001 Leuven	Tel. +32 16 386-311 Fax +32 16 386-336 http://www.sew-eurodrive.lu info@sew-eurodrive.be
Malaysia			
Assembly Sales Service	Johore	SEW-EURODRIVE SDN BHD No. 95, Jalan Seroja 39, Taman Johor Jaya 81000 Johor Bahru, Johor West Malaysia	Tel. +60 7 3549409 Fax +60 7 3541404 sales@sew-eurodrive.com.my



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	Kuala Lumpur	SEW-EURODRIVE Sdn. Bhd. No. 2, Jalan Anggerik Mokara 31/46 Kota Kemuning Seksyen 31 40460 Shah Alam Selangor Darul Ehsan	Tel. +60 3 5229633 Fax +60 3 5229622 sewsa@sew-eurodrive.com.my
	Kuching	SEW-EURODRIVE Sdn. Bhd. Lot 268, Section 9 KTLD Lorong 9, Jalan Satok 93400 Kuching, Sarawak East Malaysia	Tel. +60 82 232380 Fax +60 82 242380
	Penang	SEW-EURODRIVE Sdn. Bhd. No. 38, Jalan Bawal Kimsar Garden 13700 Prai, Penang	Tel. +60 4 3999349 Fax +60 4 3999348 sewpg@sew-eurodrive.com.my
Mauritania			
Sales	Zouérate	AFRICOM - SARL En Face Marché Dumez P.B. 88 Zouérate	Tel. +222 45 44 50 19 Fax +222 45 44 03 14 contact@africom-sarl.com
Mexico			
Assembly Sales Service	Quéretaro	SEW-EURODRIVE MEXICO SA DE CV SEM-981118-M93 Tequisquiapan No. 102 Parque Industrial Quéretaro C.P. 76220 Quéretaro, México	Tel. +52 442 1030-300 Fax +52 442 1030-301 http://www.sew-eurodrive.com.mx scmexico@seweurodrive.com.mx
Morocco			
Sales	Casablanca	Afit Route D'El Jadida KM 14 RP8 Province de Nouaceur Commune Rurale de Bouskoura MA 20300 Casablanca	Tel. +212 522633700 Fax +212 522621588 fatima.haqui@premium.net.ma http://www.groupe-premium.com
Netherlands			
Assembly Sales Service	Rotterdam	VECTOR Aandrijftechniek B.V. Industrieweg 175 NL-3044 AS Rotterdam Postbus 10085 NL-3004 AB Rotterdam	Tel. +31 10 4463-700 Fax +31 10 4155-552 Service: 0800-SEWHELP http://www.sew-eurodrive.nl info@sew-eurodrive.nl
New Zealand			
Assembly Sales Service	Auckland	SEW-EURODRIVE NEW ZEALAND LTD. P.O. Box 58-428 82 Greenmount drive East Tamaki Auckland	Tel. +64 9 2745627 Fax +64 9 2740165 http://www.sew-eurodrive.co.nz sales@sew-eurodrive.co.nz
	Christchurch	SEW-EURODRIVE NEW ZEALAND LTD. 10 Settlers Crescent, Ferryroad Christchurch	Tel. +64 3 384-6251 Fax +64 3 384-6455 sales@sew-eurodrive.co.nz



New Zealand			
Technical Offices	Palmerston North	SEW-EURODRIVE NEW ZEALAND LTD. C/-Grant Shearman, RD 5, Aronui Road Palmerston North	Tel. +64 6 355-2165 Fax +64 6 355-2316 sales@sew-eurodrive.co.nz
Norway			
Assembly Sales Service	Moss	SEW-EURODRIVE A/S Solgaard skog 71 N-1599 Moss	Tel. +47 69 24 10 20 Fax +47 69 24 10 40 http://www.sew-eurodrive.no sew@sew-eurodrive.no
Pakistan			
Sales	Karachi	Industrial Power Drives Al-Fatah Chamber A/3, 1st Floor Central Commercial Area, Sultan Ahmed Shah Road, Block 7/8, Karachi	Tel. +92 21 452 9369 Fax +92-21-454 7365 seweurodrive@cyber.net.pk
Peru			
Assembly Sales Service	Lima	SEW DEL PERU MOTORES REDUCTORES S.A.C. Los Calderos, 120-124 Urbanizacion Industrial Vulcano, ATE, Lima	Tel. +51 1 3495280 Fax +51 1 3493002 http://www.sew-eurodrive.com.pe sewperu@sew-eurodrive.com.pe
Philippines			
Sales	Luzon	Totaltech Corporation 5081-B C&L Mansion Filmore Ave. Cor. Fahrenheit St. 1235 Makati City	Tel: +63 2 551-9265 / +63 2 551-9271 / +63 2 551-9378 Fax: +63 2 551-9273 totaltek@info.com.ph
	All Areas	P.T. Cerna Corporation 2166 Primo Rivera St., Brgy. La Paz, Makati City	Tel: +63 2 890 2862 / +63 2 890 2813 Fax: +63 2 890 2802 electrical_controls@ptcerna.com
Poland			
Assembly Sales Service	Lodz	SEW-EURODRIVE Polska Sp.z.o.o. ul. Techniczna 5 PL-92-518 Łódź	Tel. +48 42 676 53 00 Fax +48 42 676 53 49 http://www.sew-eurodrive.pl sew@sew-eurodrive.pl
	Service	Tel. +48 42 6765332 / 42 6765343 Fax +48 42 6765346	Linia serwisowa Hotline 24H Tel. +48 602 739 739 (+48 602 SEW SEW) serwis@sew-eurodrive.pl
Technical Office	Tychy	SEW-EURODRIVE Polska Sp.z.o.o. ul. Fabryczna 5 PL-43-100 Tychy	Tel. +48 32 32 32 610 Fax +48 32 32 32 648
	Bydgoszcz	SEW-EURODRIVE Polska Sp.z.o.o. ul. Fordońska 246 PL-85-959 Bydgoszcz	Tel. +48 52 3606590 Fax +48 52 3606591
	Poznan	SEW-EURODRIVE Polska Sp.z.o.o. ul. Romana Maya 1 PL-61-371 Poznań	Tel. +48 61 6465500 Fax +48 61 6465519
	Radom	SEW-EURODRIVE Polska Sp.z.o.o. ul. Słowackiego 84 PL-26-600 Radom	Tel. +48 48 365 40 50 Fax +48 48 365 40 51



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Service Competence Center	Lisboa	SEW-EURODRIVE, LDA. Núcleo Empresarial I de São Julião do Tojal Rua de Entremuros, 54 Fracção I P-2660-533 São Julião do Tojal	Tel. +351 21 958-0198 Fax +351 21 958-0245 esc.lisboa@sew-eurodrive.pt
Technical Office	Porto	SEW-EURODRIVE, LDA. Av. 25 de Abril, 68 4440-502 Valongo	Tel. +351 229 350 383 Fax +351 229 350 384 Tel. +351 9 32559110 esc.porto@sew-eurodrive.pt
Romania			
Sales Service	Bucharest	Sialco Trading SRL str. Madrid nr.4 011785 Bucuresti	Tel. +40 21 230-1328 Fax +40 21 230-7170 sialco@sialco.ro
Russia			
Assembly Sales Service	St. Petersburg	ZAO SEW-EURODRIVE P.O. Box 36 195220 St. Petersburg Russia	Tel. +7 812 3332522 +7 812 5357142 Fax +7 812 3332523 http://www.sew-eurodrive.ru sew@sew-eurodrive.ru
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	Irkutsk	ZAO SEW-EURODRIVE 5-Armii Str., 31 RUS-664011 Irkutsk	Tel. +7 3952 25 5880 Fax +7 3952 25 5881 iso@sew-eurodrive.ru
	Moskau	ZAO SEW-EURODRIVE Malaja Semjonowskaja Str. d. 9, korp. 2 RUS-107023 Moskau	Tel. +7 495 9337090 Fax +7 495 9337094 mso@sew-eurodrive.ru
	Novosibirsk	ZAO SEW-EURODRIVE pr. K Marksa 30 RUS-630087 Novosibirsk	Tel. +7 383 3350200 Fax +7 383 3462544 nso@sew-eurodrive.ru
	Togliatti	ZAO SEW-EURODRIVE Sportivnaya Str. 4B, office 2 Samarskaya obl. RUS-445057 Togliatti	Tel. +7 8482 710529 Fax +7 8482 810590
Senegal			
Sales	Dakar	SENEMECA Mécanique Générale Km 8, Route de Rufisque B.P. 3251, Dakar	Tel. +221 338 494 770 Fax +221 338 494 771 senemeca@sentoo.sn http://www.senemeca.com
Serbia			
Sales	Beograd	DIPAR d.o.o. Ustanicka 128a PC Košum, IV sprat SRB-11000 Beograd	Tel. +381 11 347 3244 / +381 11 288 0393 Fax +381 11 347 1337 office@dipar.rs



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Slovakia			
Sales	Bratislava	SEW-Eurodrive SK s.r.o. Rybničná 40 SK-831 06 Bratislava	Tel. +421 2 33595 202 Fax +421 2 33595 200 sew@sew-eurodrive.sk http://www.sew-eurodrive.sk
	Žilina	SEW-Eurodrive SK s.r.o. Industry Park - PChZ ulica M.R.Štefánika 71 SK-010 01 Žilina	Tel. +421 41 700 2513 Fax +421 41 700 2514 sew@sew-eurodrive.sk
	Banská Bystrica	SEW-Eurodrive SK s.r.o. Rudlovská cesta 85 SK-974 11 Banská Bystrica	Tel. +421 48 414 6564 Fax +421 48 414 6566 sew@sew-eurodrive.sk
	Košice	SEW-Eurodrive SK s.r.o. Slovenská ulica 26 SK-040 01 Košice	Tel. +421 55 671 2245 Fax +421 55 671 2254 sew@sew-eurodrive.sk
Slovenia			
Sales Service	Celje	Pakman - Pogonska Tehnika d.o.o. Ul. XIV. divizije 14 SLO - 3000 Celje	Tel. +386 3 490 83-20 Fax +386 3 490 83-21 pakman@siol.net
South Africa			
Assembly Sales Service	Johannesburg	SEW-EURODRIVE (PROPRIETARY) LIMITED Eurodrive House Cnr. Adcock Ingram and Aerodrome Roads Aeroton Ext. 2 Johannesburg 2013 P.O.Box 90004 Bertsham 2013	Tel. +27 11 248-7000 Fax +27 11 494-3104 http://www.sew.co.za info@sew.co.za
	Cape Town	SEW-EURODRIVE (PROPRIETARY) LIMITED Rainbow Park Cnr. Racecourse & Omuramba Road Montague Gardens Cape Town P.O.Box 36556 Chempet 7442 Cape Town	Tel. +27 21 552-9820 Fax +27 21 552-9830 Telex 576 062 cfoster@sew.co.za
	Durban	SEW-EURODRIVE (PROPRIETARY) LIMITED 2 Monaco Place Pinetown Durban P.O. Box 10433, Ashwood 3605	Tel. +27 31 700-3451 Fax +27 31 700-3847 cdejager@sew.co.za
	Nelspruit	SEW-EURODRIVE (PTY) LTD. 7 Christie Crescent Vintonia P.O.Box 1942 Nelspruit 1200	Tel. +27 13 752-8007 Fax +27 13 752-8008 robermeyer@sew.co.za
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South Korea			
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	Busan	SEW-EURODRIVE KOREA Co., Ltd. No. 1720 - 11, Songjeong - dong Gangseo-ku Busan 618-270	Tel. +82 51 832-0204 Fax +82 51 832-0230 master@sew-korea.co.kr
Technical Offices	Daegu	SEW-EURODRIVE KOREA Co., Ltd. No.1108 Sungan officetel 87-36, Duryu 2-dong, Dalseo-ku Daegu 704-712	Tel. +82 53 650-7111 Fax +82 53 650-7112
	DaeJeon	SEW-EURODRIVE KOREA Co., Ltd. No. 1502, Hongin officetel 536-9, Bongmyung-dong, Yusung-ku Daejeon 305-301	Tel. +82 42 828-6461 Fax +82 42 828-6463
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Spain			
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Technical Offices	Barcelona	Delegación Barcelona Avda. Francesc Macià, 60 – Planta 16, porta 1 Eix Macià – “Torre Milenium” E-08208 Sabadell (Barcelona)	Tel. +34 93 7162200 Fax +34 93 7233007
	Madrid	Delegación Madrid Gran Vía. 48-2° A-D E-28220 Majadahonda (Madrid)	Tel. +34 91 6342250 Fax +34 91 6340899
	Seville	MEB Pólogono Calonge, C/A Nave 2 - C E-41.077 Sevilla	Tel. +34 954 356 361 Fax +34 954 356 274 mebsa.sevilla@mebsa.com
	Valencia	MEB Músico Andreu i Piqueres, 4 E-46.900 Torrente (Valencia)	Tel. +34 961 565 493 Fax +34 961 566 688 mebsa.valencia@mebsa.com
Sri Lanka			
Sales	Colombo	SM International (Pte) Ltd 254, Galle Raod Colombo 4, Sri Lanka	Tel. +94 1 2584887 Fax +94 1 2582981



Sweden			
Assembly Sales Service	Jönköping	SEW-EURODRIVE AB Gnejsvägen 6-8 S-55303 Jönköping Box 3100 S-55003 Jönköping	Tel. +46 36 3442 00 Fax +46 36 3442 80 http://www.sew-eurodrive.se jonkoping@sew.se
	Göteborg	SEW-EURODRIVE AB Gustaf Werners gata 8 S-42132 Västra Frölunda	Tel. +46 31 70968 80 Fax +46 31 70968 93 goteborg@sew.se
	Stockholm	SEW-EURODRIVE AB Björkholmsvägen 10 S-14146 Huddinge	Tel. +46 8 44986 80 Fax +46 8 44986 93 stockholm@sew.se
	Malmö	SEW-EURODRIVE AB Borrgatan 5 S-21124 Malmö	Tel. +46 40 68064 80 Fax +46 40 68064 93 malmö@sew.se
	Skellefteå	SEW-EURODRIVE AB Trädgårdsgatan 8 S-93131 Skellefteå	Tel. +46 910 7153 80 Fax +46 910 7153 93 skelleftea@sew.se
Switzerland			
Assembly Sales Service	Basel	Alfred Imhof A.G. Jurastrasse 10 CH-4142 Münchenstein bei Basel	Tel. +41 61 417 1717 Fax +41 61 417 1700 http://www.imhof-sew.ch info@imhof-sew.ch
	Rhaetian Switzerland	André Gerber Es Perreyres CH-1436 Chamblon	Tel. +41 24 445 3850 Fax +41 24 445 4887
	Bern / Solothurn	Rudolf Bühler Muntersweg 5 CH-2540 Grenchen	Tel. +41 32 652 2339 Fax +41 32 652 2331
	Central Switzerland, Aargau	Armin Pfister Stierenweid CH-4950 Huttwill, BE	Tel. +41 62 962 54 55 Fax +41 62 962 54 56
	Zürich, Ticino	Gian-Michele Muletta Fischerstrasse 61 CH-8132 Egg bei Zürich	Tel. +41 44 994 81 15 Fax +41 44 994 81 16
	Bodensee and East Switzerland	Markus Künzle Eichweg 4 CH-9403 Goldach	Tel. +41 71 845 2808 Fax +41 71 845 2809
Taiwan (R.O.C.)			
Sales	Nan Tou	Ting Shou Trading Co., Ltd. No. 55 Kung Yeh N. Road Industrial District Nan Tou 540	Tel. +886 49 255353 Fax +886 49 257878
	Taipei	Ting Shou Trading Co., Ltd. 6F-3, No. 267, Sec. 2 Tung Hwa South Road, Taipei	Tel. +886 2 27383535 Fax +886 2 27368268 Telex 27 245 sewtwn@ms63.hinet.net
Thailand			
Assembly Sales Service	Chonburi	SEW-EURODRIVE (Thailand) Ltd. 700/456, Moo.7, Donhuaroh Muang Chonburi 20000	Tel. +66 38 454281 Fax +66 38 454288 sewthailand@sew-eurodrive.com



Address Directory

Thailand			
Technical Offices	Bangkok	SEW-EURODRIVE (Thailand) Ltd. 6th floor, TPS Building 1023, Phattanakarn Road Suanluang Bangkok, 10250	Tel. +66 2 7178149 Fax +66 2 7178152 sewthailand@sew-eurodrive.com
	Hadyai	SEW-EURODRIVE (Thailand) Ltd. Hadyai Country Home Condominium 59/101 Soi.17/1 Rachas-Utid Road. Hadyai, Songkhla 90110	Tel. +66 74 359441 Fax +66 74 359442 sewthailand@sew-eurodrive.com
	Khonkaen	SEW-EURODRIVE (Thailand) Ltd. 4th Floor, Kaow-U-HA MOTOR Bldg, 359/2, Mitraphab Road. Muang District Khonkaen 40000	Tel. +66 43 225745 Fax +66 43 324871 sew-thailand@sew-eurodrive.com
Tunisia			
Sales	Tunis	T. M.S. Technic Marketing Service Zone Industrielle Mghira 2 Lot No. 39 2082 Fouchana	Tel. +216 79 40 88 77 Fax +216 79 40 88 66 http://www.tms.com.tn tms@tms.com.tn
Turkey			
Assembly Sales Service	Istanbul	SEW-EURODRIVE Hareket Sistemleri San. ve Tic. Ltd. Sti. Bagdat Cad. Koruma Cikmazi No. 3 TR-34846 Maltepe ISTANBUL	Tel. +90 216 4419163 / 4419164 Fax +90 216 3055867 http://www.sew-eurodrive.com.tr sew@sew-eurodrive.com.tr
Technical Offices	Adana	SEW-EURODRIVE Hareket Sistemleri San. ve Tic. Ltd. Sti. Kizilay Caddesi 8 Sokak No 6 Dađtekin Is Merkezi Kat 4 Daire 2 TR-01170 SEYHAN / ADANA	Tel. +90 322 359 94 15 Fax +90 322 359 94 16
	Ankara	SEW-EURODRIVE Hareket Sistemleri San. ve Tic. Ltd. Sti. Özcelik Is Merkezi, 14. Sok, No. 4/42 TR-06370 Ostim/Ankara	Tel. +90 312 385 33 90 Fax +90 312 385 32 58
	Bursa	SEW-EURODRIVE Hareket Sistemleri San. ve Tic. Ltd. Sti. Üçevler Mah. Bayraktepe Sok. Akay İş Merkezi Kat:3 No: 7/6 TR Nilüfer/Bursa	Tel. +90 224 443 45 60 Fax +90 224 443 45 58
	Izmir	SEW-EURODRIVE Hareket Sistemleri San. ve Tic. Ltd. Sti. 1203/11 Sok. No. 4/613 Hasan Atli Is Merkezi TR-35110 Yenisehir-Izmir	Tel. +90 232 469 62 64 Fax +90 232 433 61 05
Ukraine			
Assembly Sales Service	Dnepropetrovsk	SEW-EURODRIVE Str. Rabochaja 23-B, Office 409 49008 Dnepropetrovsk	Tel. +380 56 370 3211 Fax +380 56 372 2078 http://www.sew-eurodrive.ua sew@sew-eurodrive.ua
Sales	Kiev	SEW-EURODRIVE GmbH S. Oleynika str. 21 02068 Kiev	Tel. +380 44 503 95 77 Fax +380 44 503 95 78 kso@sew-eurodrive.ua
	Donetsk	SEW-EURODRIVE GmbH 25th anniversary of RKKA av. 1-B, of. 805 Donetsk 83000	Tel. +380 62 38 80 545 Fax +380 62 38 80 533 dso@sew-eurodrive.ua



United Arab Emirates			
Sales Service	Sharjah	Copam Middle East (FZC) Sharjah Airport International Free Zone P.O. Box 120709 Sharjah	Tel. +971 6 5578-488 Fax +971 6 5578-499 copam_me@eim.ae
Uruguay			
Sales	Montevideo	SEW-EURODRIVE Uruguay, S. A. Jose Serrato 3569 Esquina Corumbe CP 12000 Montevideo	Tel. +598 2 21181-89 Fax +598 2 21181-89 sewuy@sew-eurodrive.com.uy
USA			
Production Assembly Sales Service	Southeast Region	SEW-EURODRIVE INC. 1295 Old Spartanburg Highway P.O. Box 518 Lyman, S.C. 29365	Tel. +1 864 439-7537 Fax Sales +1 864 439-7830 Fax Manufacturing +1 864 439-9948 Fax Assembly +1 864 439-0566 Fax Confidential/HR +1 864 949-5557 http://www.seweurodrive.com cslyman@seweurodrive.com
Assembly Sales Service	Northeast Region	SEW-EURODRIVE INC. Pureland Ind. Complex 2107 High Hill Road, P.O. Box 481 Bridgeport, New Jersey 08014	Tel. +1 856 467-2277 Fax +1 856 845-3179 csbridgeport@seweurodrive.com
	Midwest Region	SEW-EURODRIVE INC. 2001 West Main Street Troy, Ohio 45373	Tel. +1 937 335-0036 Fax +1 937 332-0038 cstroy@seweurodrive.com
	Southwest Region	SEW-EURODRIVE INC. 3950 Platinum Way Dallas, Texas 75237	Tel. +1 214 330-4824 Fax +1 214 330-4724 csdallas@seweurodrive.com
	Western Region	SEW-EURODRIVE INC. 30599 San Antonio St. Hayward, CA 94544	Tel. +1 510 487-3560 Fax +1 510 487-6433 cshayward@seweurodrive.com
Additional addresses for service in the USA provided on request!			
Venezuela			
Assembly Sales Service	Valencia	SEW-EURODRIVE Venezuela S.A. Av. Norte Sur No. 3, Galpon 84-319 Zona Industrial Municipal Norte Valencia, Estado Carabobo	Tel. +58 241 832-9804 Fax +58 241 838-6275 http://www.sew-eurodrive.com.ve ventas@sew-eurodrive.com.ve sewfinanzas@cantv.net
Vietnam			
Sales	Ho Chi Minh City	All sectors except for ports, mining and offshore: Nam Trung Co., Ltd 250 Binh Duong Avenue, Thu Dau Mot Town, Binh Duong Province HCM office: 91 Tran Minh Quyen Street District 10, Ho Chi Minh City	Tel. +84 8 8301026 Fax +84 8 8392223 namtrungco@hcm.vnn.vn truongtantam@namtrung.com.vn khanh-nguyen@namtrung.com.vn
		Ports, mining and offshore: DUC VIET INT LTD Industrial Trading and Engineering Services A75/6B/12 Bach Dang Street, Ward 02, Tan Binh District, 70000 Ho Chi Minh City	Tel. +84 8 62969 609 Fax +84 8 62938 842 totien@ducvietint.com
	Hanoi	Nam Trung Co., Ltd R.205B Tung Duc Building 22 Lang ha Street Dong Da District, Hanoi City	Tel. +84 4 37730342 Fax +84 4 37762445 namtrunghn@hn.vnn.vn

Inquiry/Order



Customer data:

Company: _____ Customer no.: _____
Department: _____
Name: _____ Phone: _____
Street/P.O. Box: _____ Fax: _____
Email: _____
ZIP code/city: _____

Your contact partner at SEW:

Name: _____ Phone: _____
Technical Office: _____ Fax: _____

Technical data:

Quantity: _____ Requested delivery date: _____
Catalog designation: _____

Gear unit type:

☐ Helical ☐ Parallel shaft helical ☐ Helical-bevel ☐ Helical-worm ☐ Spiroplan®
☐ Multi-stage ☐ Servo ☐ Variable speed ☐ EMS ☐ Other: _____

Power: _____ kW Output speed: _____ rpm Output torque: _____ Nm

Cycles/h: _____ c/h Cyclic duration factor: S _____ / _____ % cdf
☐ 1-shift operation ☐ 2-shift operation ☐ 3-shift operation
☐ Uniform ☐ Non-uniform ☐ Extremely non-uniform

Mounting position:

M1 M2 M3 M4 M5 M6 Pivoting
☐ ☐ ☐ ☐ ☐ ☐ ☐

Housing type:

☐ Foot-mounted ☐ Flange (bore) ☐ Flange (thread)
☐ Torque arm ☐ Other: _____

Shaft type:

☐ Solid shaft with key ☐ Shrink disk Shaft/hollow shaft Ø: _____ mm
☐ Hollow shaft with key ☐ TorqLOC® Flange Ø: _____ mm

Shaft position (right-angle units):

☐ A ☐ B ☐ AB

Terminal box position:

☐ 0°(R) ☐ 90°(B) ☐ 180°(L) ☐ 270°(T) ☐ X ☐ 1 ☐ 2 ☐ 3

Cable entry:

Degree of protection:

IP54 IP55 IP56 IP65 IP66 IP69K
☐ ☐ ☐ ☐ ☐ ☐

Thermal class:

130(B) 155(F) 180(H)
☐ ☐ ☐

Surface/corrosion protection:

KS OS1 OS2 OS3 OS4
☐ ☐ ☐ ☐ ☐

Mains voltage:

_____ V
Mains frequency: ☐ 50Hz ☐ 60Hz

Connection type:

☐ Δ ☐ Y ☐ YY ☐ Y/Y

☐ For inverter operation: Max. frequency: _____ Hz | Control range: _____

Required options:

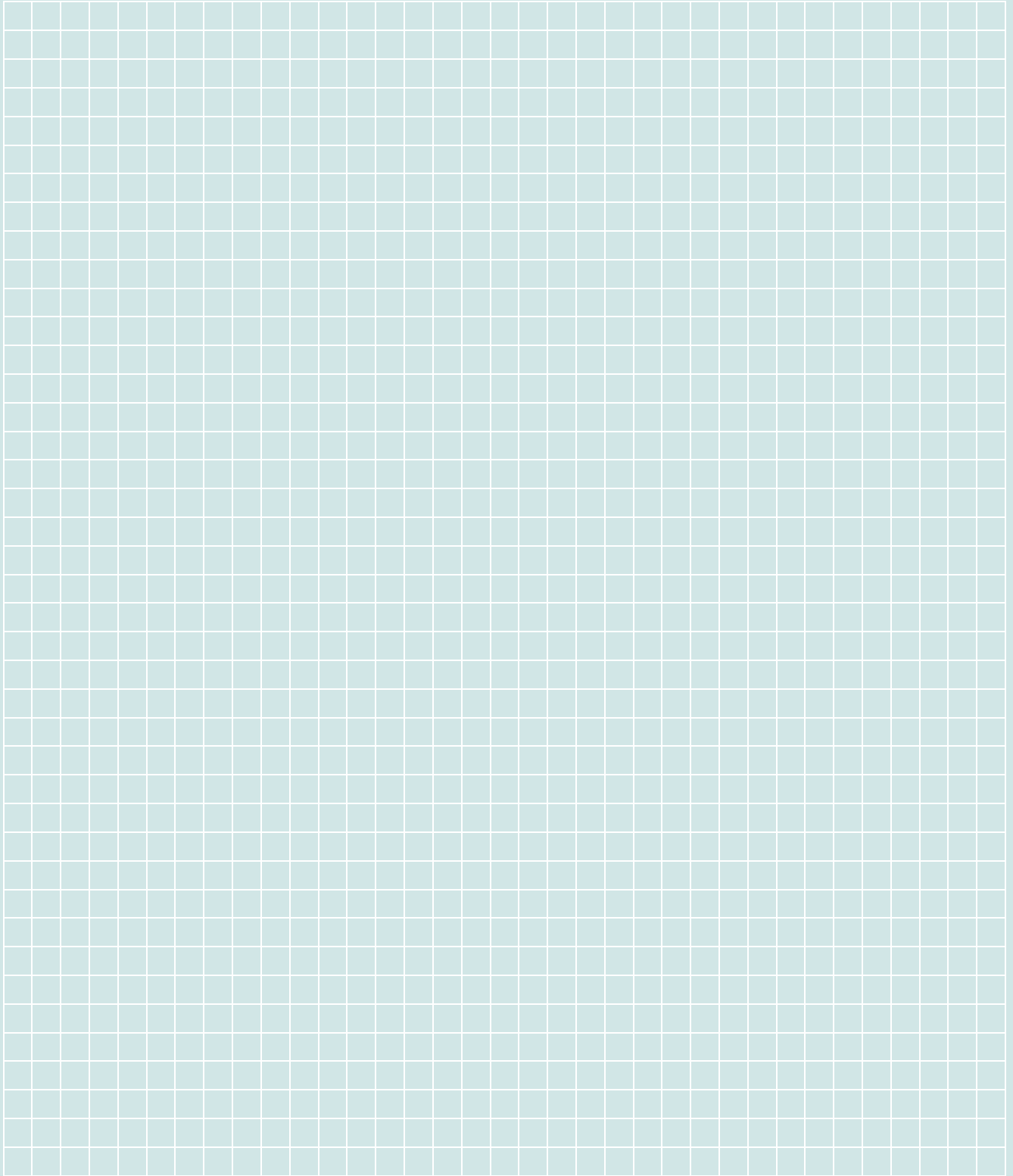
☐ Brake: voltage _____ V Braking torque: _____ Nm
☐ Manual brake
☐ release: ☐ HR or ☐ HF
Forced cooling fan
☐ Forced cooling fan: voltage: _____ V
☐ Motor protection: ☐ TF or ☐ TH
☐ Encoder: _____
☐ Plug connection: _____
☐ Inverter: _____
☐ RAL 7031 or ☐ RAL _____

Other options:

Special ambient conditions:

Temperature from _____ °C to _____ °C | ☐ Outdoor use | ☐ Installation >1000m above msl
Other ambient conditions: _____
Other: _____

Place, date _____ Signature: _____





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Driving the world

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EURODRIVE

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