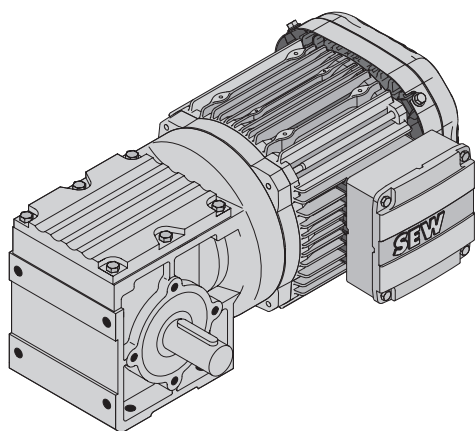
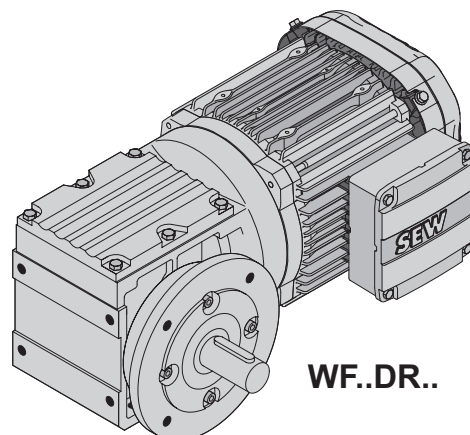
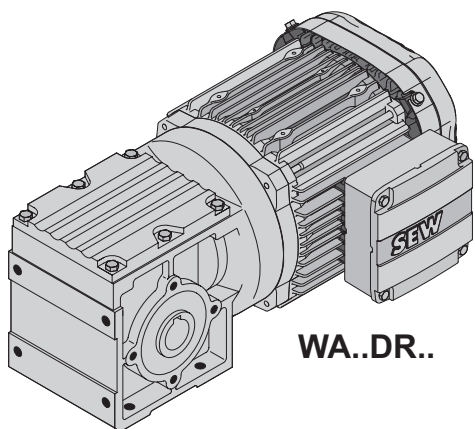
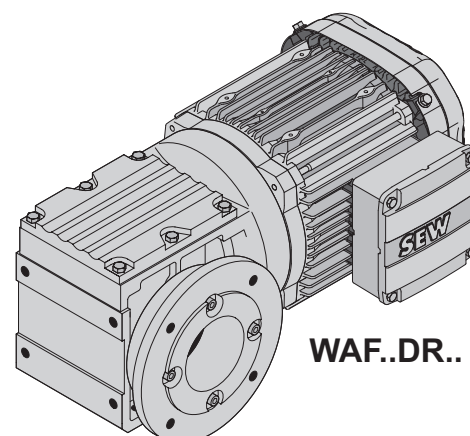
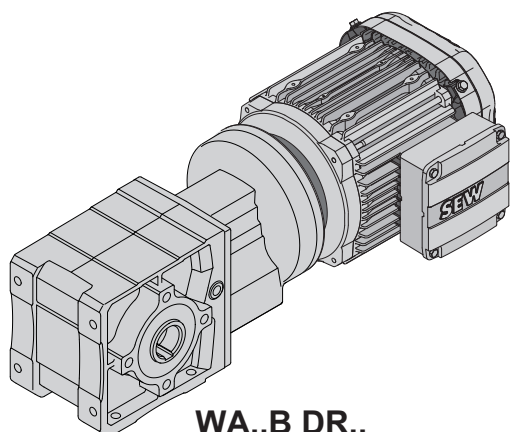


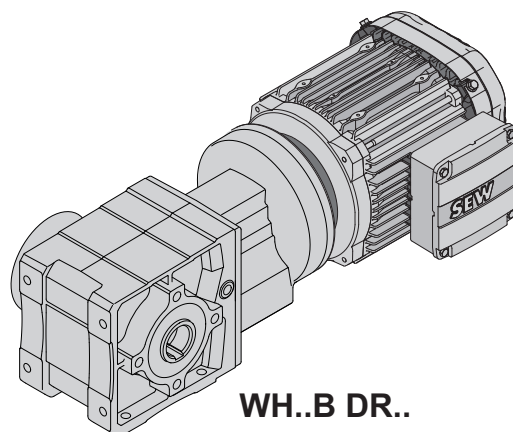
12 SPIROPLAN®-Getriebemotoren**12.1 Ausführungsarten W..DRN..****W..DR..****WF..DR..****WA..DR..****WAF..DR..**

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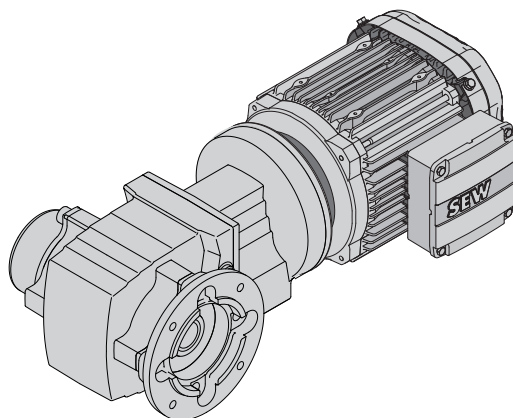


WA..B DR..

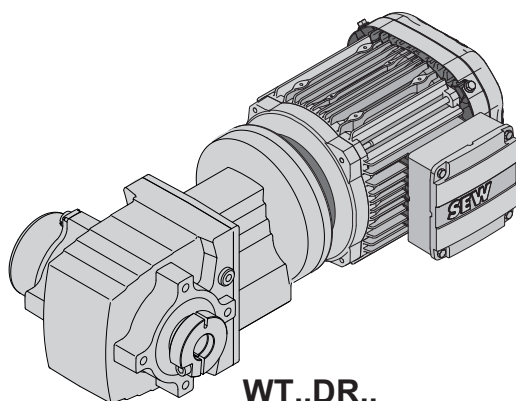


WH..B DR..

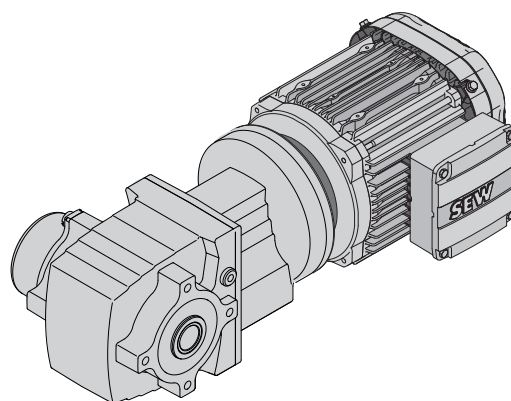
12



WHF..DR..



WT..DR..



WH..DR..

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12.2 Geometrisch mögliche Kombinationen W..DRN..

W10, $n_e=1400$ 1/min					25 Nm
n_a rpm	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ °	i	DT56M DT56L
 1					
19	25	1960	-	75.00*	
23	25	1960	-	60.00*	
29	25	1960	-	48.00*	
36	25	1960	-	39.00*	
43	25	1960	-	32.50*	
51	24	1970	-	27.50*	
57	25	1960	-	24.50*	
72	25	1960	-	19.50*	
85	20	1990	-	16.50*	
98	22	1980	-	14.33	
137	13	1990	-	10.25*	
171	12	1850	-	8.20*	
213	12	1740	-	6.57	

W20, $n_e=1400$ 1/min					40 Nm
n_a rpm	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ °	i	DR63S DR63M DR63L DRS71S DRS71M
 1					
19	40	2200	-	75.00*	
23	40	2200	-	60.00*	
29	40	2200	-	48.00*	
36	40	2200	-	39.00*	
43	40	2200	-	32.50*	
51	40	2200	-	27.50*	
57	40	2200	-	24.50*	
72	35	2200	-	19.50*	
85	30	2200	-	16.50*	
98	30	2110	-	14.33	
137	25	1920	-	10.25*	
171	20	1830	-	8.20*	
213	20	1740	-	6.57	

W30, $n_e=1400$ 1/min					70 Nm
n_a rpm	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ °	i	DR63S DR63M DR63L DRS71S DRS71M DRN80M
 1					
19	70	3000	-	75.00*	
23	70	3000	-	60.00*	
29	70	3000	-	48.00*	
36	70	3000	-	39.00*	
43	70	3000	-	32.50*	
51	70	3000	-	27.50*	
57	70	3000	-	24.50*	

W30, n_e=1400 1/min					70 Nm	
n _a rpm	M _{amax} Nm	F _{Ra} N	Φ _(/R) °	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M
72	70	3000	-	19.50*		
86	60	3000	-	16.33		
98	60	3000	-	14.33		
137	50	2970	-	10.25*		
171	40	2810	-	8.20*		
213	40	2640	-	6.57		

W37, n_e=1400 1/min					110 Nm		
n _a rpm	M _{amax} Nm	F _{Ra} N	Φ _(/R) °	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M DRN90S	DRN90L
 2							
20	110	3320	-	69.05			
22	110	3320	-	63.33			
26	110	3320	-	53.92			
30	110	3320	-	46.49			
37	110	3320	-	37.88			
41	90	3610	-	34.52			
44	90	3610	-	31.67			
45	110	3320	-	31.33			
50	110	3320	-	27.78			
52	90	3610	-	26.96			
60	90	3610	-	23.25			
66	110	3320	-	21.33			
74	90	3610	-	18.94			
89	90	3430	-	15.67			
101	90	3250	-	13.89			
110	70	3800	-	12.70			
120	70	3680	-	11.65			
131	90	2880	-	10.67			
141	70	3460	-	9.92			
164	70	3270	-	8.55			
201	70	3020	-	6.97			
243	70	2810	-	5.77			
274	70	2680	-	5.11			
356	70	2410	-	3.93			
438	70	2220	-	3.20*			

W37R17, n_e=1400 1/min					110 Nm		
n _a rpm	M _{amax} Nm	F _{Ra} N	Φ _(/R) °	i	DR63S DR63M DR63L DRS71S DRS71M		
 2  3							
0.32	110	3320	-	4402			
0.37	110	3320	-	3795			
0.43	110	3320	-	3272			

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W37R17, n _e =1400 1/min					110 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N	φ _(/R) '	i	DR63S DR63M DR63L DRS71S DRS71M
0.48	110	3320	-	2899	
0.55	110	3320	-	2558	
0.59	110	3320	-	2382	
0.64	110	3320	-	2172	
0.72	110	3320	-	1952	
0.78	110	3320	-	1795	
0.88	110	3320	-	1593	
0.96	110	3320	-	1463	
1.1	110	3320	-	1298	
1.9	110	3320	-	754	
2.1	110	3320	-	669	
🔩 2 🔩 2					
1.2	110	3320	-	1173	
1.3	110	3320	-	1063	
1.5	110	3320	-	956	
1.6	110	3320	-	854	
2.3	110	3320	-	600	
2.6	110	3320	-	532	
3.0	110	3320	-	472	
3.2	110	3320	-	434	
3.6	110	3320	-	384	
3.9	110	3320	-	359	
4.3	110	3320	-	327	
4.9	110	3320	-	286	
5.2	110	3320	-	267	
6.0	110	3320	-	233	
6.8	110	3320	-	207	
7.6	110	3320	-	184	
8.8	110	3320	-	160	
9.9	110	3320	-	141	
11	110	3320	-	125	
13	110	3320	-	109	
15	110	3320	-	96	
17	110	3320	-	82	
19	90	3610	-	73	
22	90	3610	-	63	
26	90	3610	-	53	
29	90	3610	-	48	

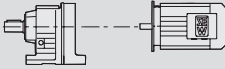
W47, n _e =1400 1/min						180 Nm			
n _a rpm	M _{amax} Nm	F _{Ra} N	Φ _(/R) °	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M DRN90S	DRN90L	DRN100LS DRN100L	DRN112M
 2									
19	180	6400	-	74.98					
20	180	6400	-	68.93					
24	180	6400	-	58.98					
27	180	6230	-	51.12					

W47, n_e=1400 1/min					180 Nm				
n _a rpm	M _{amax} Nm	F _{Ra} N	φ _(/R) °	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M DRN90S	DRN90L	DRN100LS DRN100L	DRN112M
29	180	6040	-	47.78					
34	180	5650	-	41.30					
40	180	5230	-	35.09					
44	160	5560	-	31.62					
45	180	4950	-	31.33					
51	160	5220	-	27.41					
52	180	4580	-	26.76					
55	160	5070	-	25.62					
56	180	4430	-	25.07					
63	160	4750	-	22.15					
74	160	4410	-	18.82					
83	160	4180	-	16.80					
98	160	3880	-	14.35					
104	160	3760	-	13.44					
114	110	4550	-	12.30					
124	160	3460	-	11.32					
131	110	4300	-	10.66					
141	110	4190	-	9.96					
163	110	3960	-	8.61					
191	110	3710	-	7.32					
214	110	3540	-	6.53					
251	110	3320	-	5.58					
268	110	3240	-	5.23					
318	110	3020	-	4.40					
360	110	2860	-	3.89					
428	110	2660	-	3.27					

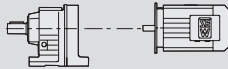
W47R17, n _e =1400 1/min					180 Nm	
n _a rpm	M _{amax} Nm	F _{Ra} N	Φ _(/R) °	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M
 2  3						
0.29	180	6400	-	4815		
0.34	180	6400	-	4173		
0.36	180	6400	-	3870		
0.39	180	6400	-	3598		
0.42	180	6400	-	3354		
0.44	180	6400	-	3171		
0.51	180	6400	-	2748		
0.58	180	6400	-	2425		
0.62	180	6400	-	2258		
0.66	180	6400	-	2111		
0.71	180	6400	-	1959		
0.78	180	6400	-	1797		
0.88	180	6400	-	1595		
0.94	180	6400	-	1486		
0.97	180	6400	-	1448		
1.2	180	6400	-	1170		

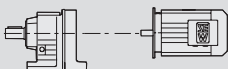
W47R17, n _e =1400 1/min					180 Nm	
n _a rpm	M _{amax} Nm	F _{Ra} N	φ _(/R) °	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M
1.9	180	6400	-	754		
 2  2						
1.1	180	6400	-	1290		
1.2	180	6400	-	1183		
1.3	180	6400	-	1042		
1.5	180	6400	-	956		
1.6	180	6400	-	869		
2.1	180	6400	-	661		
2.3	180	6400	-	596		
2.6	180	6400	-	536		
3.0	180	6400	-	473		
3.2	180	6400	-	434		
3.6	180	6400	-	386		
3.9	180	6400	-	359		
4.4	180	6400	-	318		
4.8	180	6400	-	291		
5.2	180	6400	-	270		
5.3	180	6400	-	265		
5.9	180	6400	-	237		
6.7	180	6400	-	210		
7.7	180	6400	-	183		
8.8	180	6400	-	159		
9.9	180	6400	-	141		
11	160	6650	-	124		
12	180	6400	-	120		
13	160	6650	-	105		
15	160	6650	-	95		
16	160	6650	-	85		
18	160	6650	-	77		
19	160	6650	-	72		

12.3 Auswahltabellen W..DRN.. in kW

P _m = 0.09 kW										
n _a rpm	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
17	20	75.00*	1800	1.25						
22	17	60.00*	1800	1.45						
27	16	48.00*	1800	1.55						
33	15	39.00*	1800	1.70						
40	13	32.50*	1800	1.90						
47	12	27.50*	1800	2.0						
53	11	24.50*	1800	2.3						
67	9.4	19.50*	1800	2.6						
79	8.4	16.50*	1800	2.4						
91	7.6	14.33	1800	2.9						
127	5.8	10.25*	1800	2.2						
159	4.8	8.20*	1800	2.5						
198	4.0	6.57	1800	3.0						

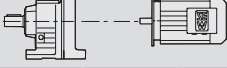
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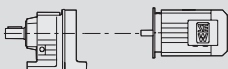
P _m = 0.12 kW										
n _a rpm	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
3.8	135	359	-	0.80	W WF WA WAF	37R17 37R17 37R17 37R17	DR DR DR DR	63S4 63S4 63S4 63S4	13	777
4.2	128	327	1780	0.85						
4.8	112	286	3280	1.00						
5.2	107	267	3370	1.05						
5.9	94	233	3560	1.15						
6.7	81	207	3720	1.35						
7.5	73	184	3800	1.50						
8.6	68	160	3850	1.60						
9.8	60	141	3910	1.80						
11	54	125	3960	2.0						
13	48	109	4000	2.3						
14	43	96	4030	2.6						
17	37	82	4060	3.0						
19	38	73	4050	2.3						
22	34	63	4070	2.6						
26	29	53	4090	3.1						
29	27	48	4100	3.3						
20	39	69.05	4050	2.8	W WF WA WAF	37 37 37 37	DR DR DR DR	63S4 63S4 63S4 63S4	10	767
22	36	63.33	4060	3.1						
26	31	53.92	4080	3.5						
30	27	46.49	4100	4.0						
36	23	37.88	4110	4.8						
40	24	34.52	4110	3.8						
44	22	31.67	4120	4.1						
12	40	75.00*	3000	1.75	W WF WA WAF	30 30 30 30	DR DR DR DR	63M6 63M6 63M6 63M6	9.0	763
15	38	60.00*	3000	1.85					9.4	764
28	25	32.50*	3000	2.8					8.8	766
33	24	27.50*	3000	3.0					9.1	765
18	28	75.00*	3000	2.5	W WF WA WAF	30 30 30 30	DR DR DR DR	63S4 63S4 63S4 63S4	9.0	763
23	26	60.00*	3000	2.7					9.4	764
29	23	48.00*	3000	3.1					8.8	766
35	20	39.00*	3000	3.4					9.1	765
42	17	32.50*	3000	4.1						
12	36	75.00*	2200	1.10	W WF WA WAF	20 20 20 20	DR DR DR DR	63M6 63M6 63M6 63M6	6.6	760
15	32	60.00*	2200	1.25					6.8	761
28	27	32.50*	2200	1.50					6.3	762
33	22	27.50*	2200	1.80					6.3	761

P _m = 0.12 kW										
n _a rpm	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
18	25	75.00*	2200	1.60	W WF WA WAF	20 20 20 20	DR DR DR DR	63S4 63S4 63S4 63S4	6.6 6.8 6.3 6.3	760 761 762 761
23	22	60.00*	2200	1.80						
29	20	48.00*	2200	1.95						
35	19	39.00*	2200	2.2						
42	18	32.50*	2200	2.2						
50	15	27.50*	2200	2.6						
56	14	24.50*	2200	2.9						
71	12	19.50*	2200	3.0						
84	10	16.50*	2200	2.9						
96	9.6	14.33	2200	3.1						
135	7.2	10.25*	2160	3.5						
168	5.9	8.20*	2020	3.4						
210	4.9	6.57	1890	4.0						
17	27	75.00*	1800	0.95	W WF WA WAF	10 10 10 10	DT DT DT DT	56L4 56L4 56L4 56L4	5.3 5.5 5.3 5.5	757 758 759 758
22	23	60.00*	1800	1.05						
27	21	48.00*	1800	1.15						
33	20	39.00*	1800	1.30						
40	18	32.50*	1800	1.40						
47	16	27.50*	1800	1.55						
53	15	24.50*	1800	1.70						
67	13	19.50*	1800	2.00						
79	11	16.50*	1800	1.80						
91	10	14.33	1800	2.2						
127	7.7	10.25*	1800	1.70						
159	6.3	8.20*	1800	1.90						
198	5.3	6.57	1800	2.3						

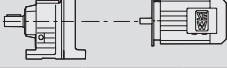
P _m = 0.18 kW																
n _a rpm	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg							
4.2	225	318	6080	0.80												
4.9	193	270	6320	0.95												
5.6	178	237	6420	1.00												
6.3	156	210	6560	1.15												
7.2	135	183	6680	1.35												
8.3	122	159	6760	1.50												
9.3	108	141	6840	1.65												
11	114	124	6900	1.40												
11	93	120	6930	1.95												
13	96	105	6990	1.65												
14	90	95	7020	1.75												
16	79	85	7070	2.0												
17	74	77	7090	2.2												
18	67	72	7120	2.4												
6.4	134	207	580	0.80												
7.2	121	184	2620	0.90												
8.2	110	160	3320	1.00												
9.3	99	141	3500	1.10												
11	88	125	3630	1.25												
12	79	109	3740	1.40												
14	71	96	3820	1.55												
16	61	82	3910	1.80												
18	64	73	3890	1.40												
21	56	63	3940	1.60												
25	48	53	4000	1.85												
27	44	48	4020	2.0												
18	70	74.98	7060	2.6												
19	65	68.93	7080	2.8												
22	56	58.98	7130	3.2												
26	50	51.12	7160	3.6												
28	47	47.78	7180	3.8												
32	41	41.30	7210	4.4												
42	35	31.62	7020	4.6												

P_m = 0.18 kW

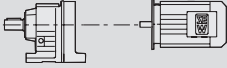
n _a rpm	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
19	60	69.05	3920	1.85						
21	56	63.33	3950	1.95						
24	48	53.92	4000	2.3						
28	43	46.49	4030	2.6						
35	36	37.88	4070	3.1	W	37	DR	63M4	10	767
38	37	34.52	4060	2.4	WF	37	DR	63M4	10	768
42	34	31.67	4070	2.6	WA	37	DR	63M4	10	770
48	27	27.78	4100	4.1	WAF	37	DR	63M4	10	768
49	29	26.96	4090	3.1						
57	26	23.25	4100	3.5						
62	21	21.33	4120	5.2						
70	21	18.94	4120	4.3						
12	62	75.00*	3000	1.10	W	30	DR	63L6	9.8	763
14	58	60.00*	3000	1.20	WF	30	DR	63L6	10	764
27	39	32.50*	3000	1.80	WA	30	DR	63L6	9.5	766
32	37	27.50*	3000	1.90	WAF	30	DR	63L6	9.8	765
18	44	75.00*	3000	1.60						
22	40	60.00*	3000	1.75						
28	35	48.00*	3000	2.00						
34	32	39.00*	3000	2.2						
41	27	32.50*	3000	2.6	W	30	DR	63M4	9.0	763
48	25	27.50*	3000	2.8	WF	30	DR	63M4	9.4	764
54	23	24.50*	3000	3.0	WA	30	DR	63M4	8.8	766
68	20	19.50*	3000	3.6	WAF	30	DR	63M4	9.1	765
81	17	16.33	3000	3.5						
92	15	14.33	3000	3.9						
129	12	10.25*	3000	4.3						
161	9.5	8.20*	3000	4.2						
201	8.0	6.57	2980	5.0						
111	12	24.50*	3000	6.0	W	30	DR	63S2	9.0	763
139	9.9	19.50*	3000	7.1	WF	30	DR	63S2	9.4	764
167	8.5	16.33	3000	7.1	WA	30	DR	63S2	8.8	766
190	7.7	14.33	3000	7.8	WAF	30	DR	63S2	9.1	765
265	5.7	10.25*	2720	8.7						
332	4.7	8.20*	2540	8.6						
14	49	60.00*	2200	0.80	W	20	DR	63L6	7.3	760
32	35	27.50*	2200	1.15	WF	20	DR	63L6	7.4	761
45	27	19.50*	2200	1.30	WA	20	DR	63L6	7.0	762
					WAF	20	DR	63L6	7.0	761
18	39	75.00*	2200	1.00						
22	34	60.00*	2200	1.15						
28	32	48.00*	2200	1.25						
34	29	39.00*	2200	1.40						
41	28	32.50*	2200	1.40	W	20	DR	63M4	6.6	760
48	24	27.50*	2200	1.70	WF	20	DR	63M4	6.8	761
54	22	24.50*	2200	1.85	WA	20	DR	63M4	6.3	762
68	19	19.50*	2200	1.90	WAF	20	DR	63M4	6.3	761
80	16	16.50*	2200	1.85						
92	15	14.33	2200	2.0						
129	11	10.25*	2140	2.2						
161	9.2	8.20*	2010	2.2						
201	7.7	6.57	1890	2.6						
111	11	24.50*	2200	3.6	W	20	DR	63S2	6.6	760
139	9.4	19.50*	2090	3.7	WF	20	DR	63S2	6.8	761
165	8.2	16.50*	1980	3.7	WA	20	DR	63S2	6.3	762
190	7.5	14.33	1910	4.0	WAF	20	DR	63S2	6.3	761
265	5.6	10.25*	1720	4.5						
332	4.6	8.20*	1610	4.4						

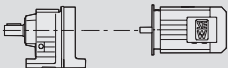
P _m = 0.25 kW																
n _a rpm	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg							
7.1	196	183	6300	0.90	W WF WA WAF	47R17 47R17 47R17 47R17	DR DR DR DR	63L4 63L4 63L4 63L4	19 20 18 18	777 777 777 777						
8.2	175	159	6430	1.05												
9.2	157	141	6550	1.15												
11	164	124	6630	0.95												
11	134	120	6690	1.35												
12	139	105	6760	1.15												
14	129	95	6820	1.25												
15	114	85	6900	1.40												
17	106	77	6940	1.50												
18	97	72	6980	1.65												
10	128	125	1880	0.85	W WF WA WAF	37R17 37R17 37R17 37R17	DR DR DR DR	63L4 63L4 63L4 63L4	14 14 14 14	777 777 777 777						
12	114	109	3220	0.95												
14	102	96	3450	1.10												
16	88	82	3640	1.25												
18	92	73	3580	0.95												
21	82	63	3720	1.10												
24	70	53	3840	1.30												
27	64	48	3880	1.40												
12	136	74.98	6680	1.30	W	47	DRS	71S6	18	772						
13	127	68.93	6730	1.40	WF	47	DRS	71S6	19	773						
					WA	47	DRS	71S6	17	775						
					WAF	47	DRS	71S6	17	773						
17	98	74.98	6900	1.85	W WF WA WAF	47 47 47 47	DR DR DR DR	63L4 63L4 63L4 63L4	16 17 15 16	772 773 775 773						
19	91	68.93	6940	2.00												
22	79	58.98	7000	2.3												
25	70	51.12	7060	2.6												
27	66	47.78	7080	2.7												
19	85	69.05	3680	1.30	W WF WA WAF	37 37 37 37	DR DR DR DR	63L4 63L4 63L4 63L4	11 11 11 11	767 768 770 768						
21	78	63.33	3750	1.40												
24	68	53.92	3850	1.60												
28	60	46.49	3920	1.85												
34	50	37.88	3990	2.2												
38	52	34.52	3980	1.75												
41	48	31.67	4000	1.90												
47	38	27.78	4060	2.9												
48	41	26.96	4040	2.2												
56	36	23.25	4060	2.5												
61	30	21.33	4090	3.7												
69	30	18.94	4090	3.0												
83	25	15.67	4110	3.6												
94	22	13.89	4110	4.0												
102	21	12.70	4120	3.3												
112	20	11.65	4120	3.6												
122	17	10.67	3910	5.2												
131	17	9.92	3920	4.2												
12	85	75.00*	3000	0.85							W	30	DRS	71S6	12	763
15	79	60.00*	3000	0.90							WF	30	DRS	71S6	12	764
28	53	32.50*	3000	1.35	WA	30	DRS	71S6	11	766						
37	46	24.50*	3000	1.50	WAF	30	DRS	71S6	12	765						
46	39	19.50*	3000	1.80												
17	61	75.00*	3000	1.15	W WF WA WAF	30 30 30 30	DR DR DR DR	63L4 63L4 63L4 63L4	9.8 10 9.5 9.8	763 764 766 765						
22	57	60.00*	3000	1.25												
27	50	48.00*	3000	1.40												
33	45	39.00*	3000	1.55												
40	38	32.50*	3000	1.85												
47	35	27.50*	3000	2.00												
53	33	24.50*	3000	2.1												
67	28	19.50*	3000	2.5												
80	24	16.33	3000	2.5												
91	22	14.33	3000	2.8												
127	16	10.25*	3000	3.1												
159	13	8.20*	3000	3.0												
198	11	6.57	2970	3.6												

P_m = 0.25 kW

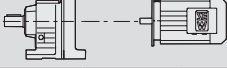
n _a rpm	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
109	17	24.50*	3000	4.2	W WF WA WAF	30	DR	63M2	9.0	763
136	14	19.50*	3000	5.0					9.4	764
163	12	16.33	3000	5.0					8.8	766
186	11	14.33	3000	5.5					9.1	765
260	8.1	10.25*	2720	6.2						
324	6.6	8.20*	2540	6.0						
33	47	27.50*	2200	0.85	W WF WA WAF	20	DRS	71S6	9.1	760
37	43	24.50*	2200	0.95					9.2	761
46	37	19.50*	2200	0.95					8.8	762
62	30	14.33	2200	1.00					8.8	761
87	22	10.25*	2200	1.10						
109	19	8.20*	2190	1.10						
136	16	6.57	2090	1.30						
22	48	60.00*	2200	0.85	W WF WA WAF	20	DR	63L4	7.3	760
27	45	48.00*	2200	0.90					7.4	761
33	41	39.00*	2200	1.00					7.0	762
40	40	32.50*	2200	1.00					7.0	761
47	34	27.50*	2200	1.20						
53	30	24.50*	2200	1.30						
67	26	19.50*	2200	1.35						
79	23	16.50*	2200	1.30						
91	21	14.33	2200	1.45						
127	16	10.25*	2100	1.60						
159	13	8.20*	1970	1.55						
198	11	6.57	1870	1.85						
82	21	32.50*	2200	1.95	W WF WA WAF	20	DR	63M2	6.6	760
97	17	27.50*	2200	2.3					6.8	761
109	16	24.50*	2190	2.6					6.3	762
136	13	19.50*	2050	2.6					6.3	761
161	12	16.50*	1950	2.6						
186	11	14.33	1880	2.8						
260	7.9	10.25*	1710	3.2						
324	6.5	8.20*	1600	3.1						

P_m = 0.37 kW

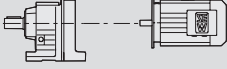
n _a rpm	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
9.8	220	141	6110	0.80	W WF WA WAF	47R17	DRS	71S4	21	777
11	192	120	6320	0.95					21	777
13	198	105	6430	0.80					19	777
15	183	95	6520	0.90					20	777
16	163	85	6640	1.00						
18	150	77	6710	1.05						
19	138	72	6770	1.15						
17	126	82	2020	0.85	W WF WA WAF	37R17	DRS	71S4	15	777
26	100	53	3480	0.90					15	777
29	91	48	3600	1.00					15	777
12	200	74.98	6270	0.90	W WF WA WAF	47	DRS	71M6	19	772
13	186	68.93	6360	0.95					20	773
15	162	58.98	6520	1.10					18	775
18	143	51.12	6640	1.25					19	773
19	134	47.78	6690	1.35						

P_m = 0.37 kW									
n_a rpm	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg
18	138	74.98	6670	1.30					
20	128	68.93	6730	1.40					
23	111	58.98	6820	1.60					
27	98	51.12	6900	1.85					
29	92	47.78	6930	1.95					
33	81	41.30	6940	2.2					
39	70	35.09	6660	2.6					
44	69	31.62	6560	2.3					
44	63	31.33	6460	2.9	W	47	DRS	71S4	18
50	60	27.41	6310	2.7	WF	47	DRS	71S4	19
52	54	26.76	6200	3.3	WA	47	DRS	71S4	17
54	56	25.62	6200	2.8	WAF	47	DRS	71S4	17
55	51	25.07	6090	3.5					
62	49	22.15	5950	3.3					
73	42	18.82	5680	3.8					
82	38	16.80	5500	4.2					
96	32	14.35	5250	4.9					
112	30	12.30	5120	3.7					
129	26	10.66	4890	4.3					
139	24	9.96	4790	4.6					
22	110	63.33	3320	1.00					
26	96	53.92	3540	1.15					
30	84	46.49	3680	1.30					
36	70	37.88	3830	1.55					
40	73	34.52	3810	1.25					
44	67	31.67	3860	1.35					
50	53	27.78	3970	2.1					
51	58	26.96	3930	1.55	W	37	DRS	71S4	13
59	50	23.25	3990	1.80	WF	37	DRS	71S4	13
65	42	21.33	4030	2.6	WA	37	DRS	71S4	13
73	42	18.94	4040	2.2	WAF	37	DRS	71S4	13
88	35	15.67	4070	2.6					
99	31	13.89	4030	2.9					
109	30	12.70	4090	2.3					
118	27	11.65	3990	2.6					
129	24	10.67	3740	3.7					
139	23	9.92	3800	3.0					
161	20	8.55	3630	3.5					
18	86	75.00*	3000	0.80					
23	80	60.00*	3000	0.90					
29	69	48.00*	3000	1.00					
35	63	39.00*	3000	1.10					
42	53	32.50*	3000	1.30					
50	49	27.50*	3000	1.40	W	30	DRS	71S4	12
56	46	24.50*	3000	1.55	WF	30	DRS	71S4	12
71	39	19.50*	3000	1.80	WA	30	DRS	71S4	11
84	33	16.33	3000	1.80	WAF	30	DRS	71S4	12
96	30	14.33	3000	2.00					
135	23	10.25*	3000	2.2					
168	19	8.20*	3000	2.1					
210	16	6.57	2870	2.6					
108	25	24.50*	3000	2.8					
136	21	19.50*	3000	3.4	W	30	DR	63L2	9.8
162	18	16.33	3000	3.4	WF	30	DR	63L2	10
185	16	14.33	2960	3.7	WA	30	DR	63L2	9.5
259	12	10.25*	2690	4.1	WAF	30	DR	63L2	9.8
323	9.9	8.20*	2510	4.0					
50	47	27.50*	2200	0.85					
56	43	24.50*	2200	0.95					
71	37	19.50*	2200	0.95	W	20	DRS	71S4	9.1
84	32	16.50*	2180	0.95	WF	20	DRS	71S4	9.2
96	29	14.33	2130	1.00	WA	20	DRS	71S4	8.8
135	22	10.25*	1970	1.15	WAF	20	DRS	71S4	8.8
168	18	8.20*	1870	1.10					
210	15	6.57	1800	1.30					

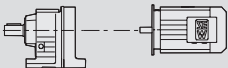
P_m = 0.37 kW

n _a rpm	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
108	23	24.50*	2080	1.70						
136	20	19.50*	1970	1.75	W	20	DR	63L2	7.3	760
161	17	16.50*	1880	1.75	WF	20	DR	63L2	7.4	761
185	16	14.33	1820	1.90	WA	20	DR	63L2	7.0	762
259	12	10.25*	1660	2.1	WAF	20	DR	63L2	7.0	761
323	9.6	8.20*	1560	2.1						

P_m = 0.55 kW

n _a rpm	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
18	205	51.12	6200	0.85						
19	198	47.78	6280	0.90						
22	174	41.30	6440	1.05	W	47	DRS	80S6	22	772
26	150	35.09	6590	1.20	WF	47	DRS	80S6	22	773
29	151	31.62	6700	1.05	WA	47	DRS	80S6	20	775
29	136	31.33	6610	1.35	WAF	47	DRS	80S6	21	773
33	132	27.41	6570	1.20						
36	124	25.62	6480	1.30						
18	205	74.98	6220	0.85						
20	192	68.93	6320	0.95						
23	168	58.98	6480	1.05						
27	147	51.12	6610	1.20	W	47	DRS	71M4	19	772
28	139	47.78	6640	1.30	WF	47	DRS	71M4	20	773
33	122	41.30	6460	1.50	WA	47	DRS	71M4	18	775
39	105	35.09	6250	1.70	WAF	47	DRS	71M4	19	773
43	104	31.62	6220	1.55						
43	95	31.33	6100	1.90						
50	90	27.41	6020	1.75						
53	85	25.62	5930	1.90						
36	106	37.88	3390	1.05						
43	101	31.67	3460	0.90						
49	80	27.78	3730	1.35						
50	87	26.96	3650	1.05						
59	76	23.25	3780	1.20						
64	63	21.33	3890	1.75						
72	63	18.94	3900	1.45						
87	52	15.67	3960	1.70	W	37	DRS	71M4	14	767
98	47	13.89	3850	1.95	WF	37	DRS	71M4	14	768
107	45	12.70	4010	1.55	WA	37	DRS	71M4	14	770
117	41	11.65	3910	1.70	WAF	37	DRS	71M4	14	768
128	36	10.67	3610	2.5						
137	35	9.92	3730	2.00						
159	30	8.55	3580	2.3						
195	25	6.97	3360	2.8						
236	21	5.77	3180	3.4						
266	18	5.11	3060	3.8						
346	14	3.93	2820	4.9						
42	80	32.50*	3000	0.90						
49	74	27.50*	3000	0.95						
56	69	24.50*	3000	1.00	W	30	DRS	71M4	13	763
83	50	16.33	3000	1.20	WF	30	DRS	71M4	13	764
95	46	14.33	3000	1.30	WA	30	DRS	71M4	13	766
133	34	10.25*	3000	1.45	WAF	30	DRS	71M4	13	765
166	28	8.20*	2990	1.40						
207	24	6.57	2810	1.70						
115	35	24.50*	3000	2.0						
144	29	19.50*	3000	2.4	W	30	DRS	71M2	13	763
172	25	16.33	2940	2.4	WF	30	DRS	71M2	13	764
196	23	14.33	2840	2.6	WA	30	DRS	71M2	13	766
274	17	10.25*	2590	3.0	WAF	30	DRS	71M2	13	765
343	14	8.20*	2420	2.9						

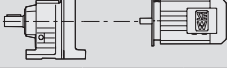
P_m = 0.55 kW

n _a rpm	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
115	33	24.50*	1900	1.20						
144	28	19.50*	1810	1.25						
170	24	16.50*	1740	1.25	W	20	DRS	71M2	10	760
196	22	14.33	1700	1.35	WF	20	DRS	71M2	11	761
274	17	10.25*	1570	1.50	WA	20	DRS	71M2	10	762
343	14	8.20*	1480	1.50	WAF	20	DRS	71M2	10	761
428	11	6.57	1420	1.75						

P_m = 0.75 kW

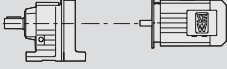
n _a rpm	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
24	215	58.98	6090	0.85						
28	191	51.12	6010	0.95						
30	180	47.78	5960	1.00						
35	158	41.30	5850	1.15						
41	136	35.09	5710	1.30						
46	134	31.62	5770	1.20	W	47	DRN	80M4	24	772
46	123	31.33	5600	1.45	WF	47	DRN	80M4	25	773
53	117	27.41	5610	1.35	WA	47	DRN	80M4	23	775
54	106	26.76	5450	1.70	WAF	47	DRN	80M4	24	773
56	110	25.62	5540	1.45						
57	100	25.07	5380	1.80						
65	95	22.15	5370	1.70						
77	82	18.82	5180	1.95						
117	58	12.30	4850	1.90						
46	116	31.33	3050	0.95						
52	104	27.78	3420	1.05						
62	98	23.25	3510	0.90						
68	82	21.33	3710	1.35						
76	81	18.94	3720	1.10						
92	68	15.67	3670	1.35						
104	60	13.89	3590	1.50	W	37	DRN	80M4	18	767
135	47	10.67	3390	1.90	WF	37	DRN	80M4	18	768
145	45	9.92	3590	1.55	WA	37	DRN	80M4	18	770
168	39	8.55	3440	1.80	WAF	37	DRN	80M4	18	768
207	32	6.97	3250	2.2						
250	27	5.77	3070	2.6						
282	24	5.11	2960	3.0						
367	18	3.93	2740	3.8						
450	15	3.20*	2570	4.7						
88	65	16.33	3000	0.90	W	30	DRN	80M4	17	763
100	59	14.33	3000	1.00	WF	30	DRN	80M4	18	764
140	44	10.25*	3000	1.15	WA	30	DRN	80M4	17	766
176	36	8.20*	2850	1.10	WAF	30	DRN	80M4	17	765
219	31	6.57	2700	1.30						

P_m = 1.1 kW

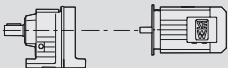
n _a rpm	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
41	198	35.09	4910	0.90						
46	194	31.62	5110	0.80						
46	178	31.33	4880	1.00						
53	170	27.41	5030	0.95						
54	154	26.76	4820	1.15						
57	159	25.62	4990	1.00						
58	145	25.07	4780	1.25	W	47	DRN	90S4	30	772
66	139	22.15	4890	1.15	WF	47	DRN	90S4	31	773
77	119	18.82	4760	1.35	WA	47	DRN	90S4	29	775
87	107	16.80	4670	1.50	WAF	47	DRN	90S4	30	773
101	92	14.35	4530	1.75						
108	86	13.44	4470	1.85						
118	84	12.30	4660	1.30						
136	73	10.66	4490	1.50						
146	68	9.96	4410	1.60						
169	59	8.61	4240	1.85						
93	98	15.67	3260	0.90						
105	88	13.89	3220	1.05						
136	68	10.67	3110	1.30						
147	66	9.92	3440	1.05	W	37	DRN	90S4	24	767
170	57	8.55	3310	1.25	WF	37	DRN	90S4	24	768
209	47	6.97	3140	1.50	WA	37	DRN	90S4	24	770
252	39	5.77	2980	1.80	WAF	37	DRN	90S4	24	768
285	34	5.11	2880	2.0						
371	26	3.93	2670	2.6						
455	22	3.20*	2520	3.2						

12

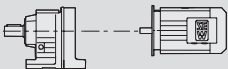
P_m = 1.5 kW

n _a rpm	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
55	205	26.76	4110	0.85						
58	198	25.07	4120	0.90						
66	188	22.15	4360	0.85						
78	161	18.82	4310	1.00						
87	145	16.80	4260	1.10						
102	125	14.35	4180	1.30	W	47	DRN	90L4	34	772
109	117	13.44	4140	1.35	WF	47	DRN	90L4	34	773
129	99	11.32	4020	1.60	WA	47	DRN	90L4	32	775
137	99	10.66	4310	1.10	WAF	47	DRN	90L4	33	773
147	93	9.96	4240	1.20						
170	80	8.61	4090	1.35						
200	68	7.32	3920	1.60						
224	61	6.53	3810	1.80						
137	93	10.67	2790	0.95						
171	78	8.55	3170	0.90	W	37	DRN	90L4	27	767
210	63	6.97	3020	1.10	WF	37	DRN	90L4	27	768
253	53	5.77	2880	1.35	WA	37	DRN	90L4	27	770
286	47	5.11	2790	1.50	WAF	37	DRN	90L4	27	768
372	36	3.93	2600	1.95						
457	29	3.20*	2460	2.4						

P_m = 2.2 kW

n _a rpm	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
101	184	14.35	3560	0.85						
108	173	13.44	3560	0.90						
128	147	11.32	3540	1.10						
168	119	8.61	3840	0.95						
198	101	7.32	3720	1.10	W	47	DRN	100LS4	38	772
222	91	6.53	3620	1.20	WF	47	DRN	100LS4	38	773
260	78	5.58	3500	1.40	WA	47	DRN	100LS4	36	775
277	73	5.23	3440	1.50	WAF	47	DRN	100LS4	37	773
329	61	4.40	3300	1.80						
373	54	3.89	3200	2.0						
444	46	3.27	3050	2.4						

P_m = 3.0 kW

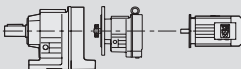
n _a rpm	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
223	123	6.53	3400	0.90						
261	105	5.58	3300	1.05	W	47	DRN	100L4	45	772
279	99	5.23	3260	1.10	WF	47	DRN	100L4	45	773
331	83	4.40	3150	1.30	WA	47	DRN	100L4	43	775
374	74	3.89	3060	1.50	WAF	47	DRN	100L4	44	773
446	62	3.27	2940	1.75						

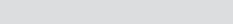
P_m = 4.0 kW

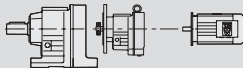
n _a rpm	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
280	131	5.23	3040	0.85	W	47	DRN	112M4	54	772
333	111	4.40	2960	1.00	WF	47	DRN	112M4	55	773
376	98	3.89	2890	1.10	WA	47	DRN	112M4	53	775
448	82	3.27	2800	1.35	WAF	47	DRN	112M4	53	773

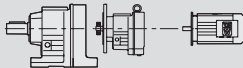
12.4 Auswahltabellen für niedrige Abtriebsdrehzahlen W..R..DRN.. in Nm

M _{a max} = 90 Nm								
n _a rpm	i	F _{Ra} ¹⁾ N					m kg	
18	73	3610	W	37R17	DR	63L4	14	777
			WF	37R17	DR	63L4	14	777
			WA	37R17	DR	63L4	14	777
			WAF	37R17	DR	63L4	14	777
22	63	3610	W	37R17	DRS	71S4	15	777
26	53	3610	WF	37R17	DRS	71S4	15	777
29	48	3610	WA	37R17	DRS	71S4	15	777
			WAF	37R17	DRS	71S4	15	777

M _{a max} = 110 Nm														
n _a rpm	i	F _{Ra} ¹⁾ N					m kg							
0.31	4402	3320					13	777						
0.36	3795	3320												
0.42	3272	3320												
0.48	2899	3320												
0.54	2558	3320												
0.58	2382	3320												
0.64	2172	3320												
0.71	1952	3320												
0.77	1795	3320												
0.87	1593	3320												
0.94	1463	3320												
1.1	1298	3320												
1.8	754	3320												
2.1	669	3320												
1.2	1173	3320					13	777						
1.3	1063	3320												
1.4	956	3320												
1.6	854	3320												
2.3	600	3320												
2.6	532	3320												
2.9	472	3320												
3.2	434	3320												
3.6	384	3320												
3.8	359	3320												
4.2	327	3320												
4.8	286	3320												
5.0	267	3320											13	777
5.7	233	3320												
6.4	207	3320												
7.2	184	3320												
8.2	160	3320												
9.2	141	3320					14	777						
10	125	3320												
12	109	3320												
14	96	3320												
17	82	3320												

M _{a max} = 160 Nm								
n _a rpm	i	F _{Ra} ¹⁾ N					m kg	
11	124	6650	W	47R17	DR	63L4	19	777
			WF	47R17	DR	63L4	20	777
			WA	47R17	DR	63L4	18	777
			WAF	47R17	DR	63L4	18	777

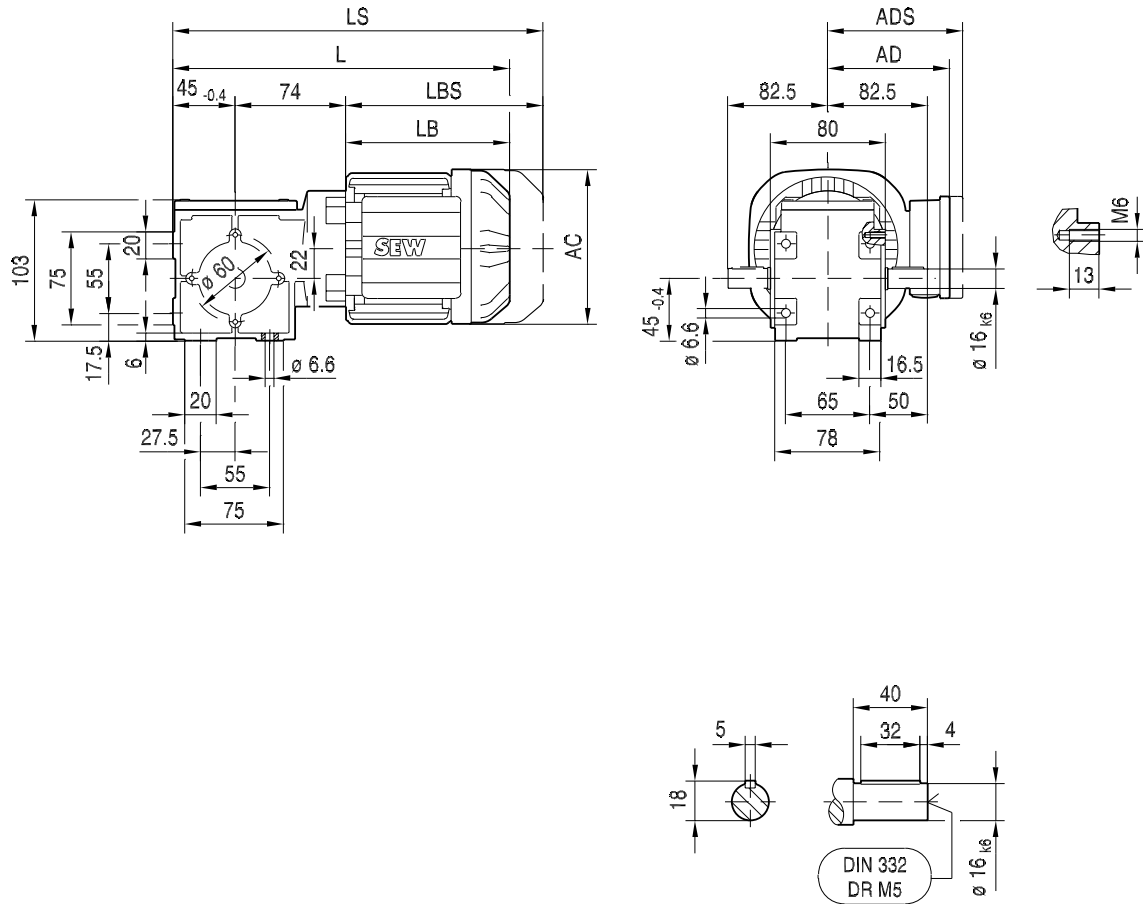
M_{a max} = 160 Nm								
n_a rpm	i	F_{Ra}¹⁾ N					m kg	
13	105	6650	W	47R17	DRS	71S4	21	777
15	95	6650	WF	47R17	DRS	71S4	21	777
16	85	6650	WA	47R17	DRS	71S4	19	777
			WAF	47R17	DRS	71S4	20	777
18	77	6650	W	47R17	DRS	71M4	22	777
			WF	47R17	DRS	71M4	23	777
19	72	6650	WA	47R17	DRS	71M4	21	777
			WAF	47R17	DRS	71M4	22	777

M_{a max} = 180 Nm								
n_a rpm	i	F_{Ra}¹⁾ N					m kg	
0.29	4815	6400						
0.33	4173	6400						
0.36	3870	6400						
0.38	3598	6400						
0.41	3354	6400						
0.44	3171	6400						
0.50	2748	6400						
0.57	2425	6400	W	47R17	DR	63S4	19	777
0.61	2258	6400	WF	47R17	DR	63S4	19	777
0.65	2111	6400	WA	47R17	DR	63S4	17	777
0.70	1959	6400	WAF	47R17	DR	63S4	18	777
0.77	1797	6400						
0.87	1595	6400						
0.93	1486	6400						
0.95	1448	6400						
1.2	1170	6400						
1.8	754	6400						
1.1	1290	6400						
1.2	1183	6400						
1.3	1042	6400						
1.4	956	6400	W	47R17	DR	63S4	18	777
1.6	869	6400	WF	47R17	DR	63S4	19	777
2.1	661	6400	WA	47R17	DR	63S4	17	777
2.3	596	6400	WAF	47R17	DR	63S4	18	777
2.6	536	6400						
2.9	473	6400						
3.2	434	6400						
3.4	386	6400						
3.7	359	6400	W	47R17	DR	63M4	18	777
4.2	318	6400	WF	47R17	DR	63M4	19	777
4.5	291	6400	WA	47R17	DR	63M4	17	777
4.9	270	6400	WAF	47R17	DR	63M4	18	777
5.0	265	6400						
5.5	237	6400	W	47R17	DR	63L4	19	777
6.2	210	6400	WF	47R17	DR	63L4	20	777
7.1	183	6400	WA	47R17	DR	63L4	18	777
			WAF	47R17	DR	63L4	18	777
8.7	159	6400	W	47R17	DRS	71S4	21	777
9.8	141	6400	WF	47R17	DRS	71S4	21	777
			WA	47R17	DRS	71S4	19	777
11	120	6400	WAF	47R17	DRS	71S4	20	777

12.5 Maßblätter W..DRN.. in mm

W10..

20 001 00 14



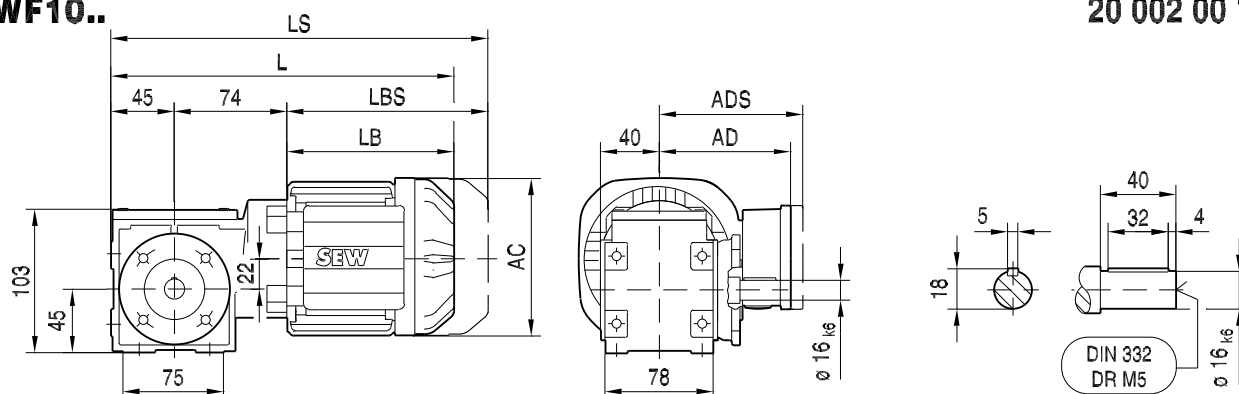
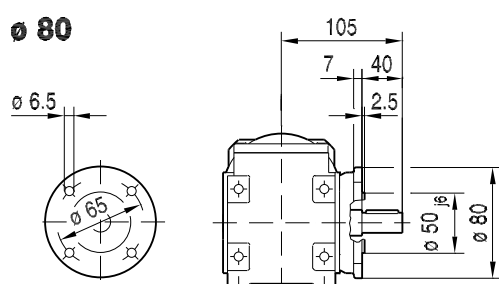
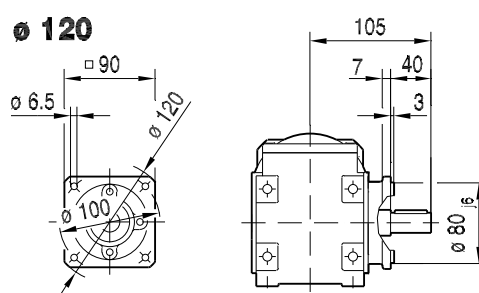
12

(→ 155)	DT56..							
AC	109							
AD	87							
ADS	87							
L	255							
LS	291							
LB	136							
LBS	172							

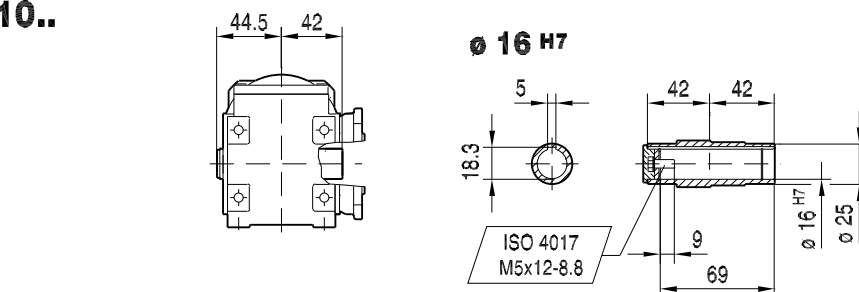
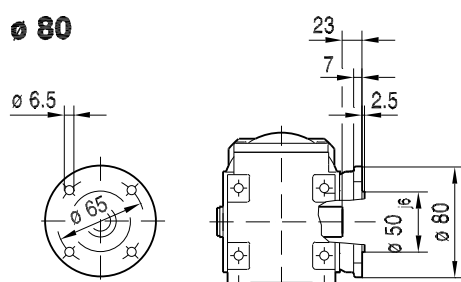
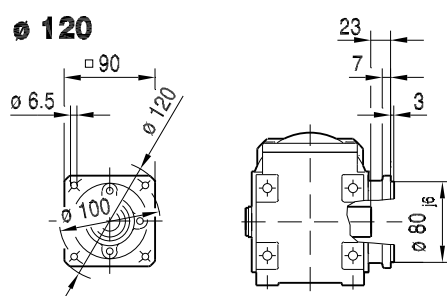
21933170/DE – 11/2015

WF10..

20 002 00 14

 $\phi 80$  $\phi 120$ 

WAF10..

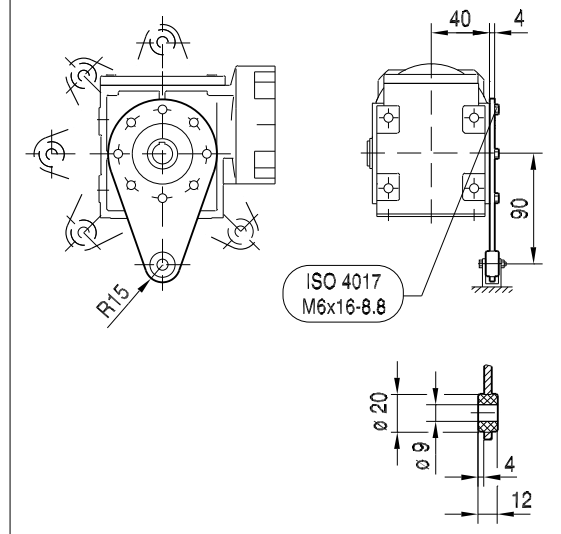
 $\phi 80$  $\phi 120$ 

(→ 155)	DT56..							
AC	109							
AD	87							
ADS	87							
L	255							
LS	291							
LB	136							
LBS	172							

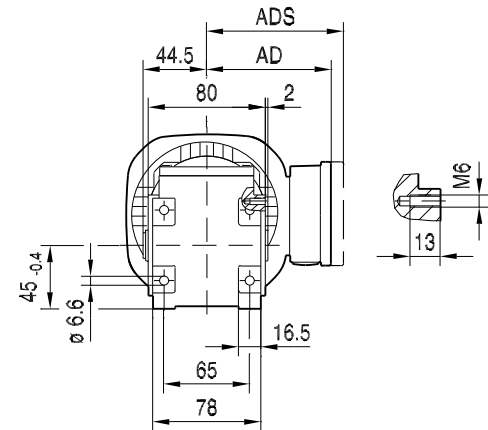
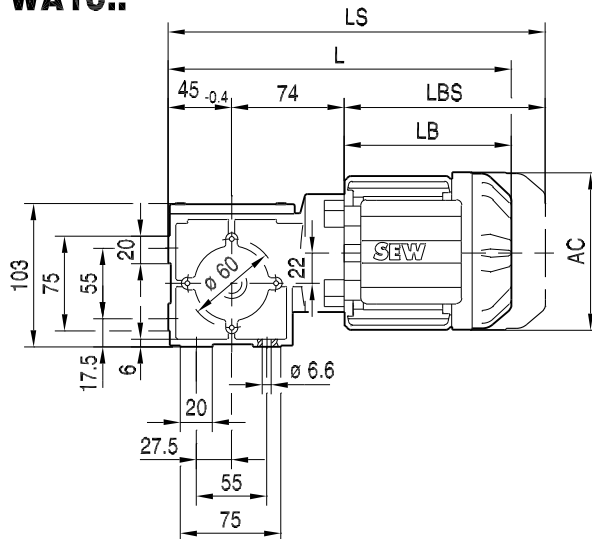
21933170/DE – 11/2015

20 003 00 14

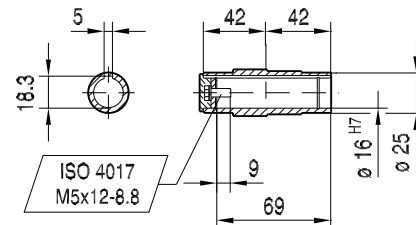
WA../T



WA10..



Ø 16 H7

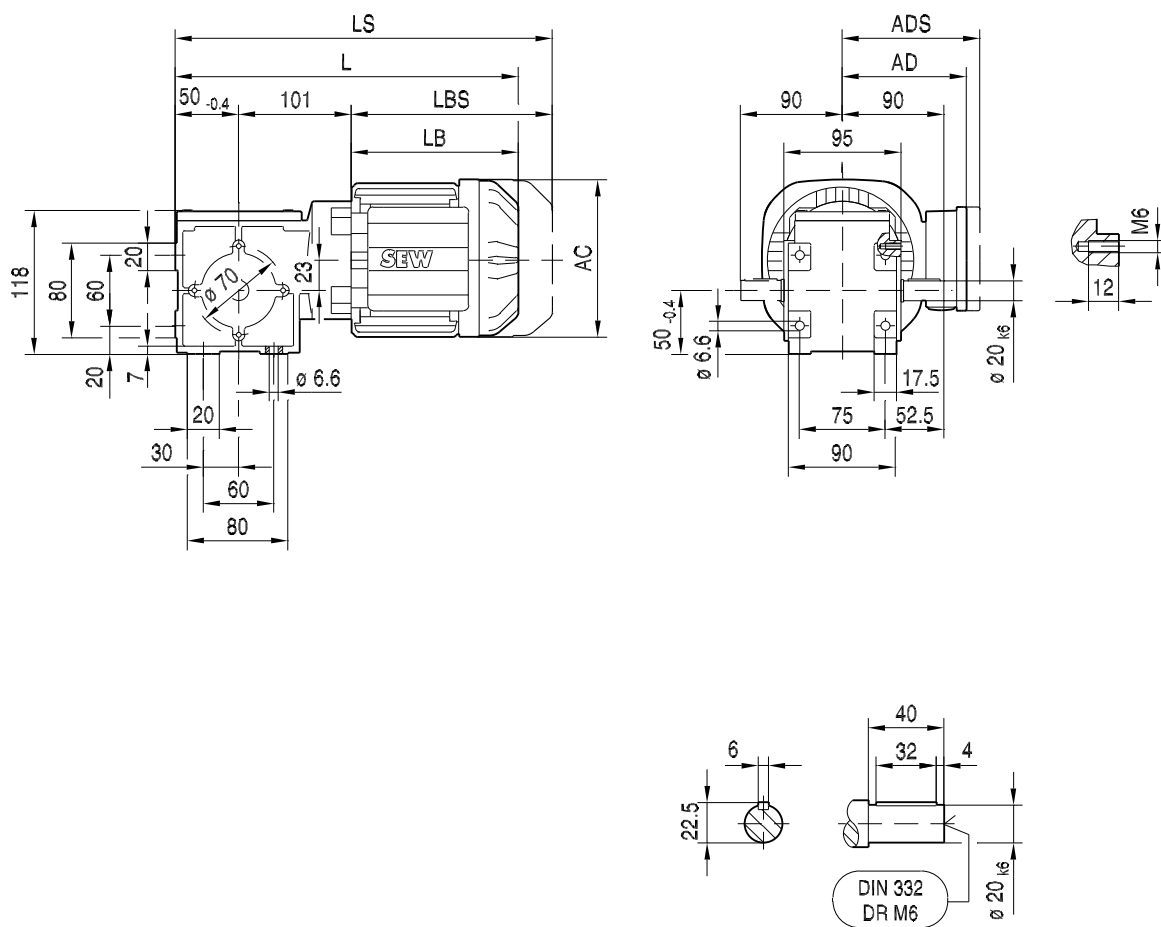


(→ 155)	DT56..							
AC	109							
AD	87							
ADS	87							
L	255							
LS	291							
LB	136							
LBS	172							

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W20..

20 004 00 14

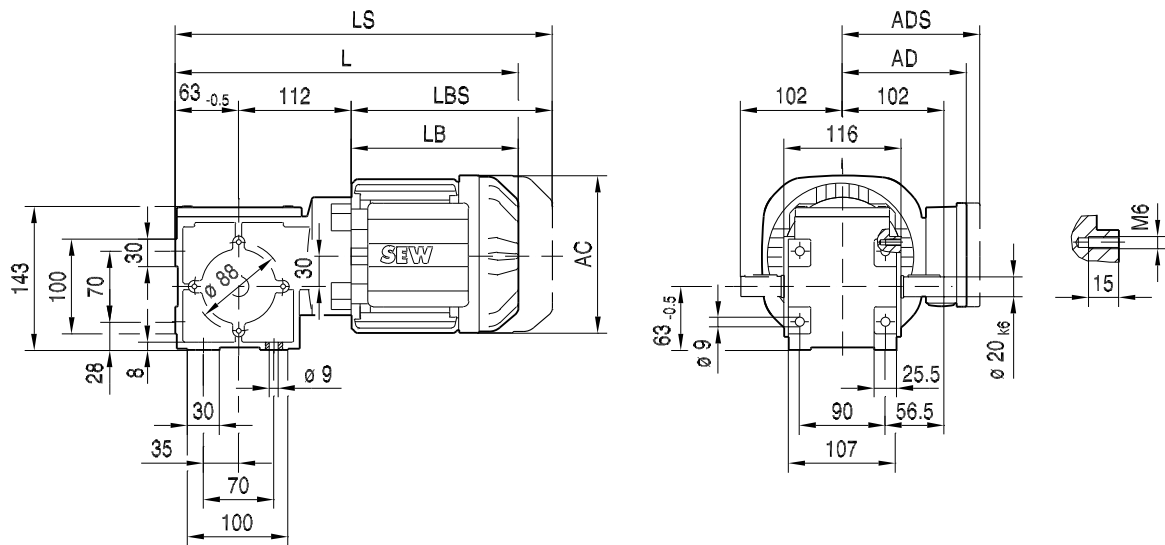


(→ 155)	DR63..	DR71S	DR71M					
AC	132	139	139					
AD	105	119	119					
ADS	105	129	129					
L	300	311	336					
LS	355	379	404					
LB	149	160	185					
LBS	204	228	253					

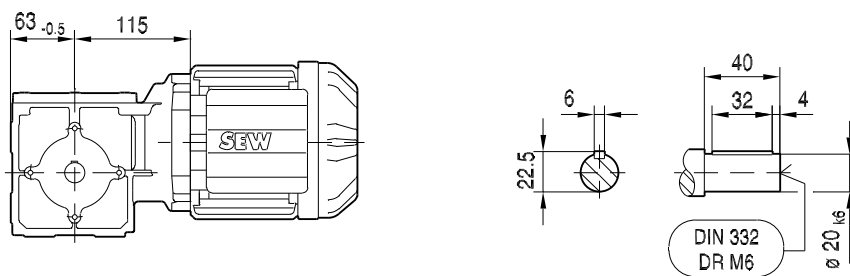
21933170/DE – 11/2015

20 007 00 14

W30..



DR80..



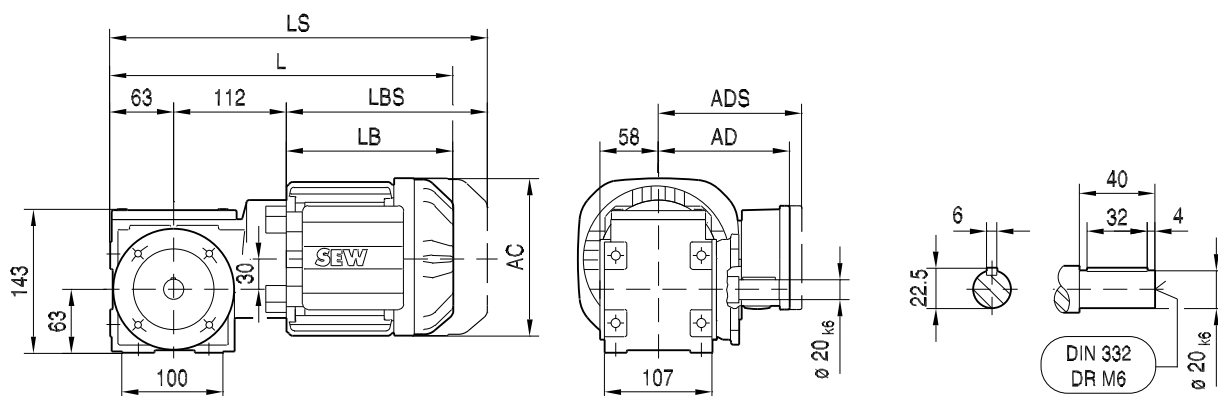
12

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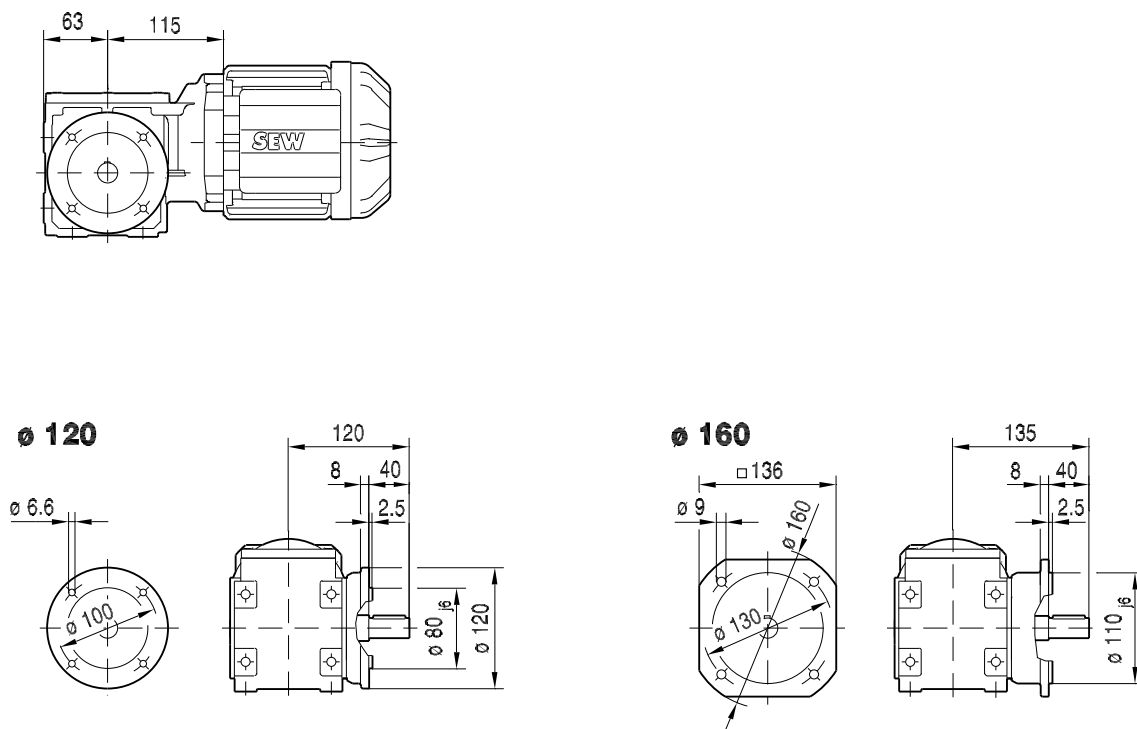
(→ 155)	DR63..	DR71S	DR71M	DRN80M				
AC	132	139	139	156				
AD	105	119	119	128				
ADS	105	129	129	139				
L	324	335	360	410				
LS	379	403	428	491				
LB	149	160	185	235				
LBS	204	228	253	316				

WF30..

20 008 00 14



DR80..

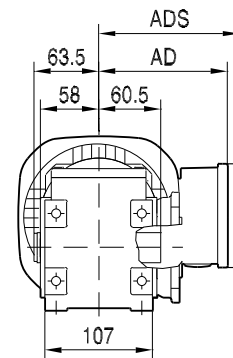
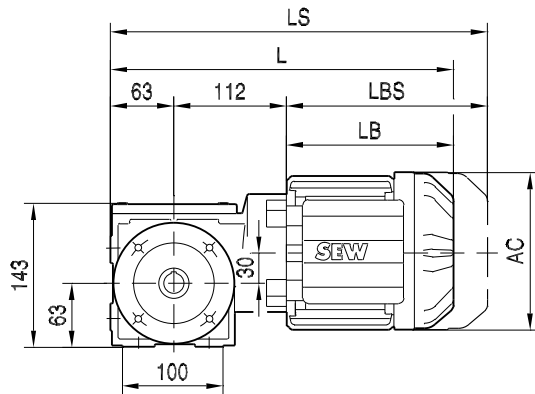


(→ 155)	DR63..	DR71S	DR71M	DRN80M				
AC	132	139	139	156				
AD	105	119	119	128				
ADS	105	129	129	139				
L	324	335	360	410				
LS	379	403	428	491				
LB	149	160	185	235				
LBS	204	228	253	316				

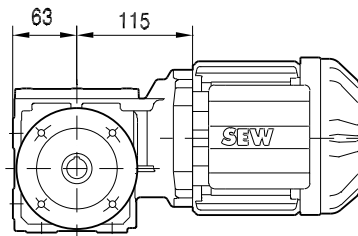
21933170/DE – 11/2015

WAF30..

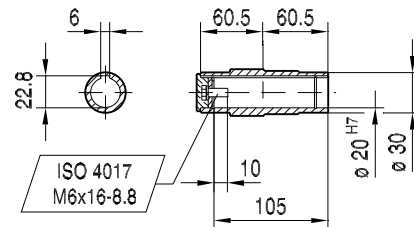
20 009 00 14



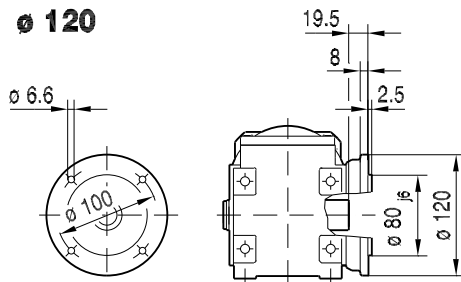
DR80..



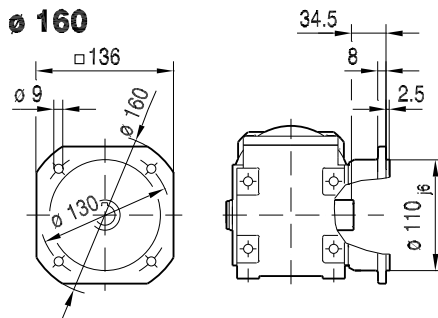
Ø 20 H7



Ø 120



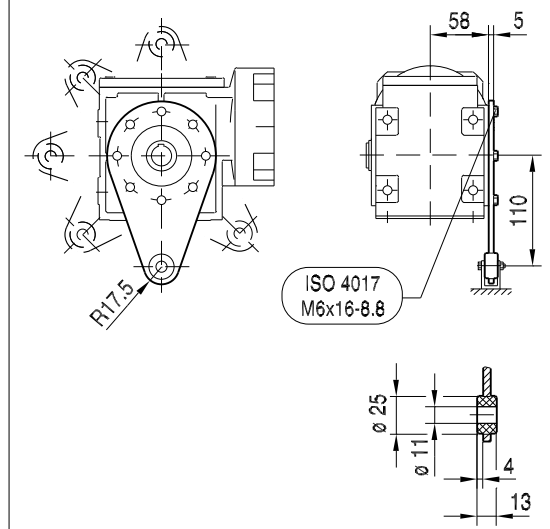
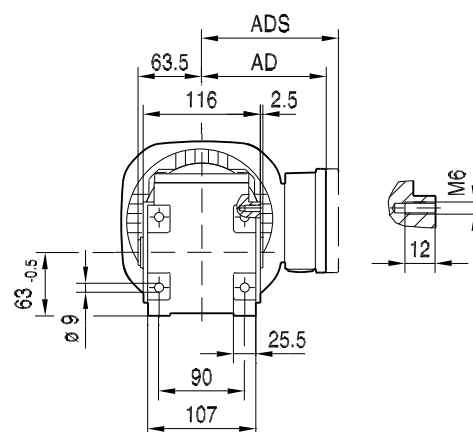
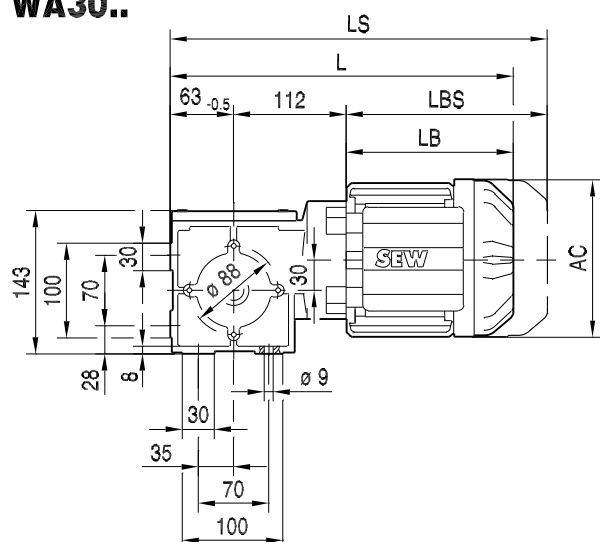
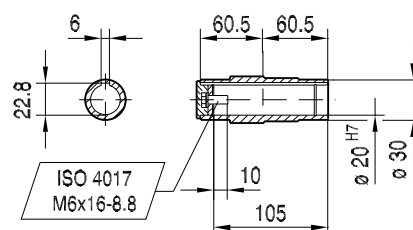
Ø 160



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(→ 155)	DR63..	DR71S	DR71M	DRN80M				
AC	132	139	139	156				
AD	105	119	119	128				
ADS	105	129	129	139				
L	324	335	360	410				
LS	379	403	428	491				
LB	149	160	185	235				
LBS	204	228	253	316				

20 010 00 14

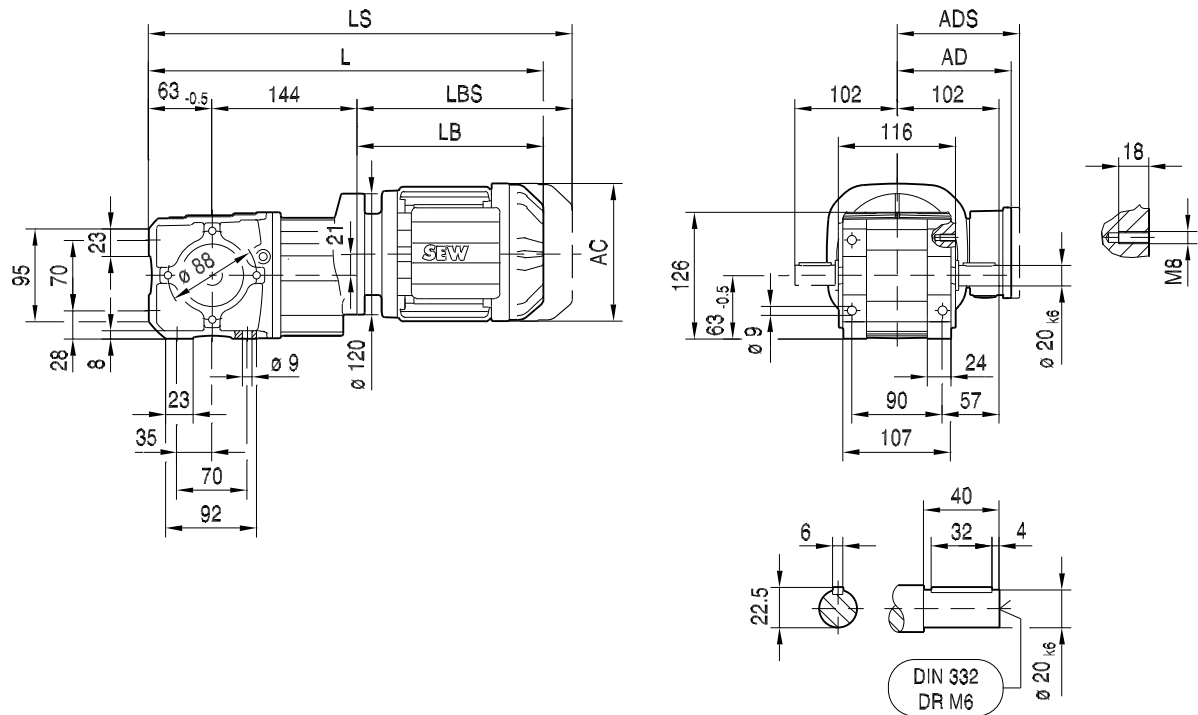
WA../T**WA30..****Ø 20 H7**

(→ 155)	DR63..	DR71S	DR71M	DRN80M				
AC	132	139	139	156				
AD	105	119	119	128				
ADS	105	129	129	139				
L	324	335	360	410				
LS	379	403	428	491				
LB	149	160	185	235				
LBS	204	228	253	316				

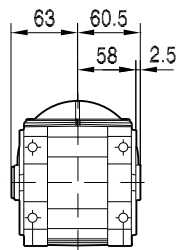
21933170/DE – 11/2015

20 011 00 14

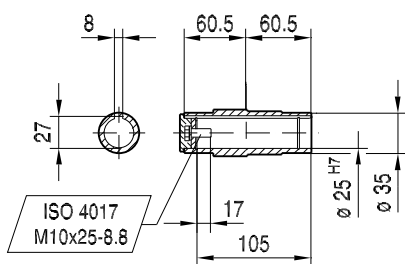
W37..



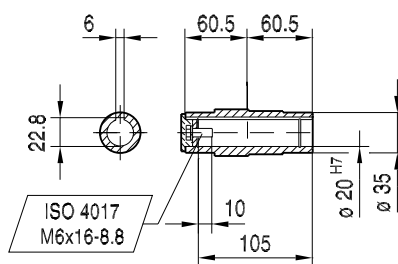
WA37B..



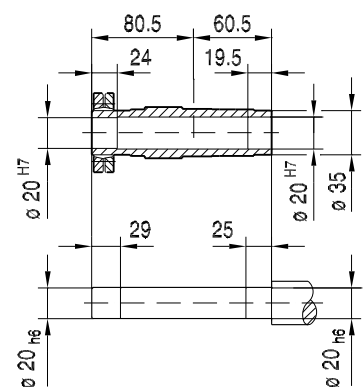
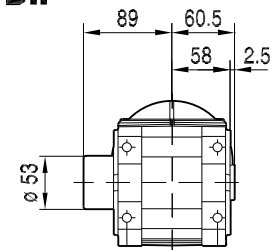
**$\varnothing 25 H7$
DIN 6885-3**



$\varnothing 20 H7$



WH37B..

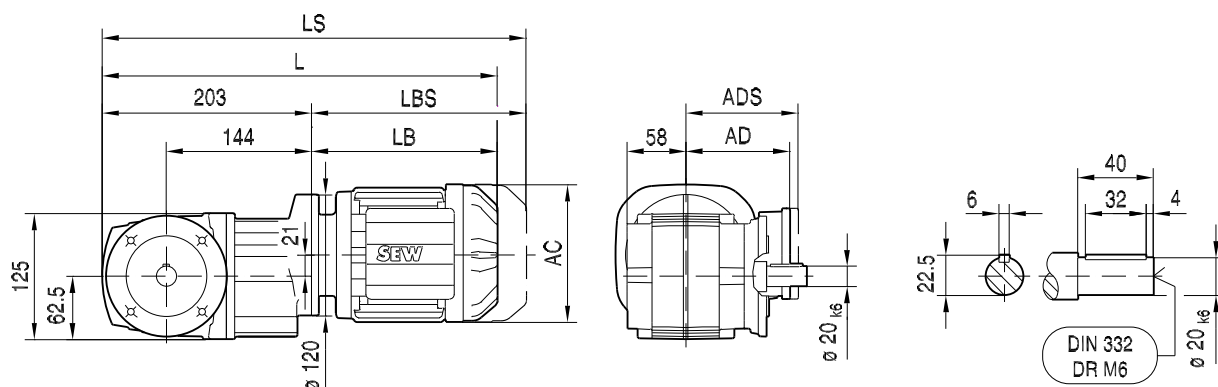


21933170/DE – 11/2015

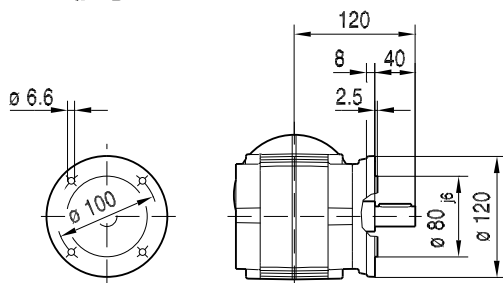
(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L		
AC	132	139	139	156	179	179		
AD	105	119	119	128	140	140		
ADS	105	129	129	139	150	150		
L	398	409	434	489	490	522		
LS	453	477	502	570	584	616		
LB	191	202	227	282	283	315		
LBS	246	270	295	363	377	409		

20 012 00 14

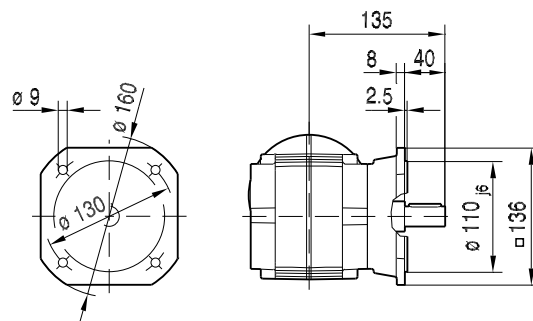
WF37..



Ø 120
max. DR71..

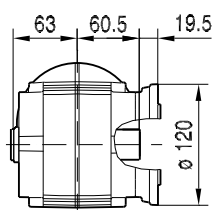


Ø 160

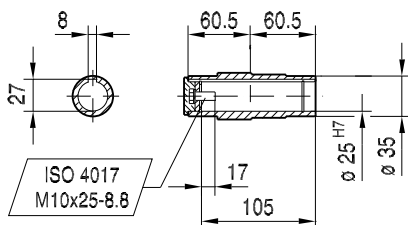


WAF37..

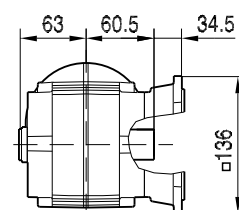
Ø 120
max. DR71..



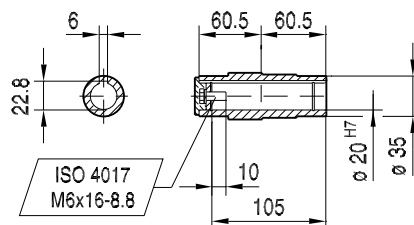
Ø 25 H7
DIN 6885-3



Ø 160



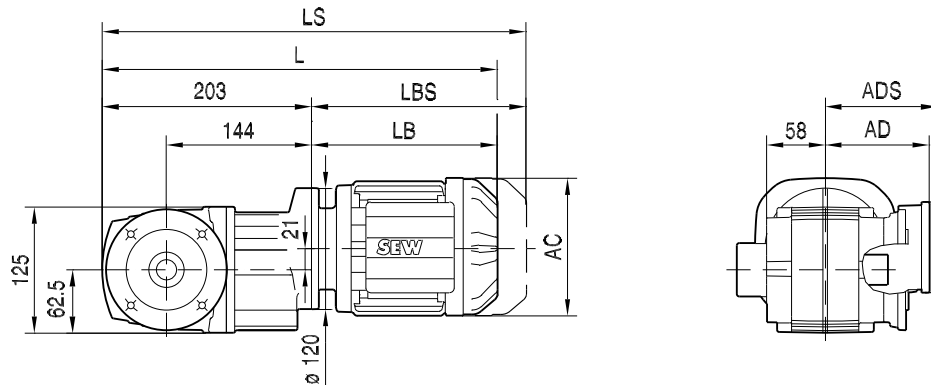
Ø 20 H7



(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L		
AC	132	139	139	156	179	179		
AD	105	119	119	128	140	140		
ADS	105	129	129	139	150	150		
L	394	405	430	485	486	518		
LS	449	473	498	566	580	612		
LB	191	202	227	282	283	315		
LBS	246	270	295	363	377	409		

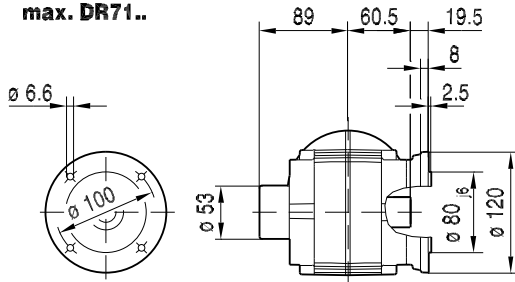
20 013 00 14

WHF37..

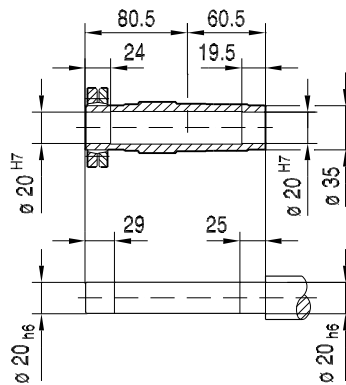
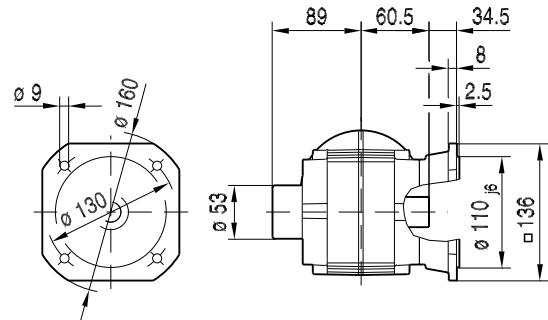


12

**$\varnothing 120$
max. DR71..**



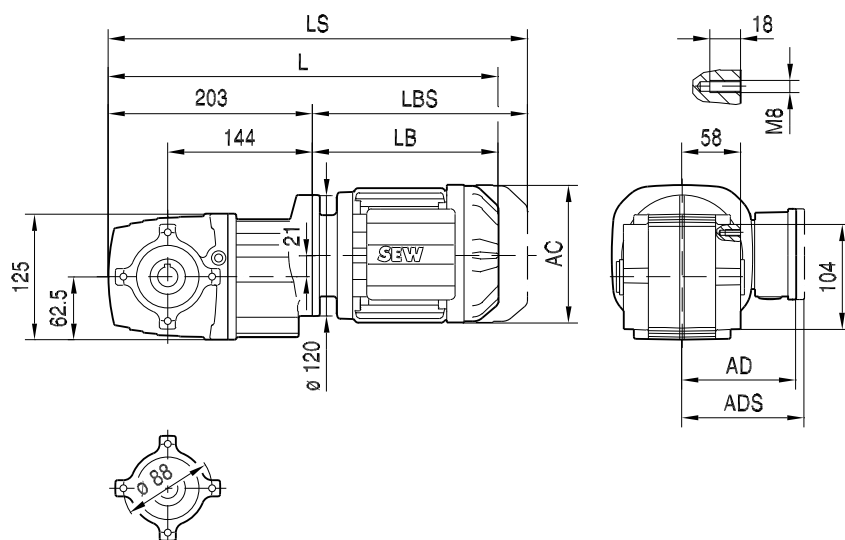
$\varnothing 160$



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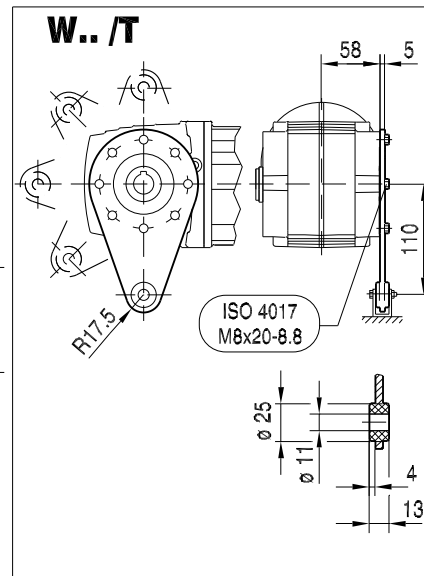
(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L		
AC	132	139	139	156	179	179		
AD	105	119	119	128	140	140		
ADS	105	129	129	139	150	150		
L	394	405	430	485	486	518		
LS	449	473	498	566	580	612		
LB	191	202	227	282	283	315		
LBS	246	270	295	363	377	409		

WA37..

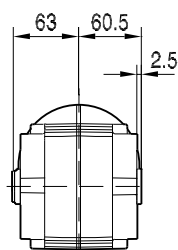


20 014 00 14

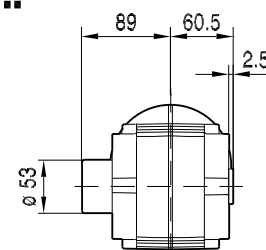
W../T



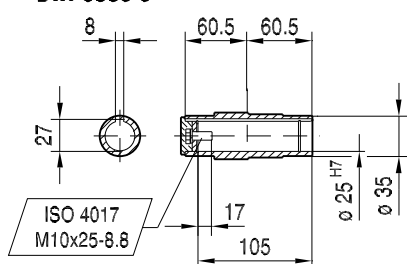
WA37..



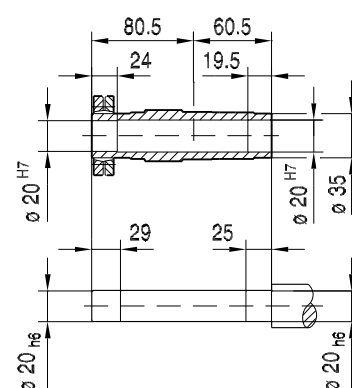
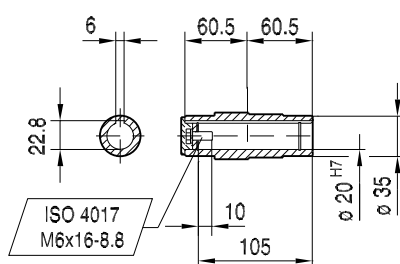
WH37..



$\phi 25$ H7
DIN 6885-3



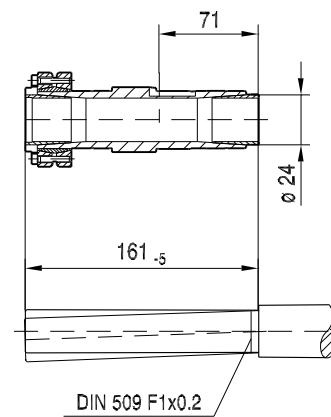
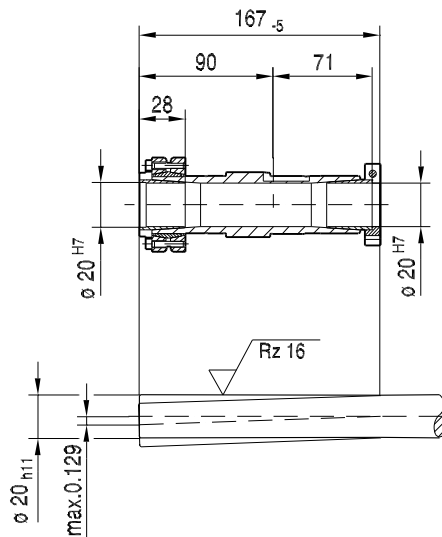
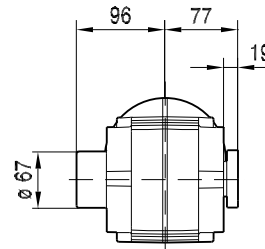
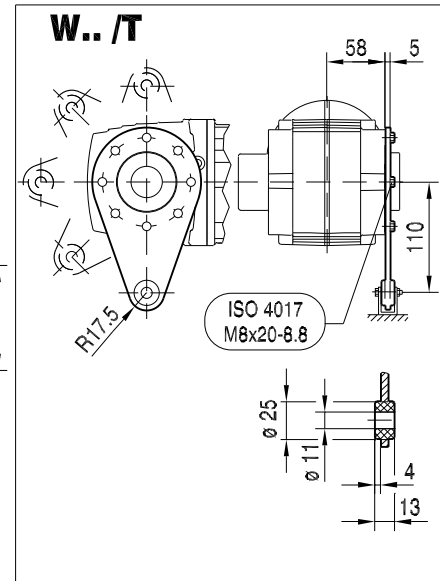
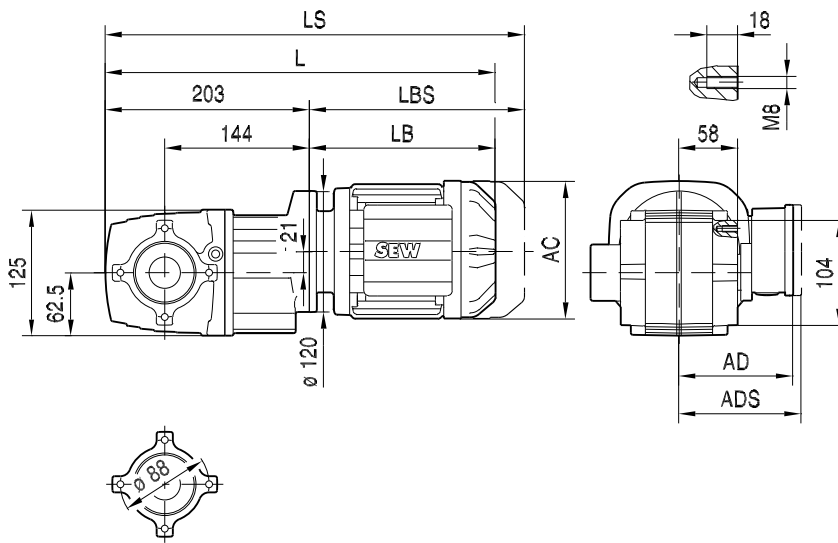
$\phi 20$ H7



(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L		
AC	132	139	139	156	179	179		
AD	105	119	119	128	140	140		
ADS	105	129	129	139	150	150		
L	394	405	430	485	486	518		
LS	449	473	498	566	580	612		
LB	191	202	227	282	283	315		
LBS	246	270	295	363	377	409		

WT37..

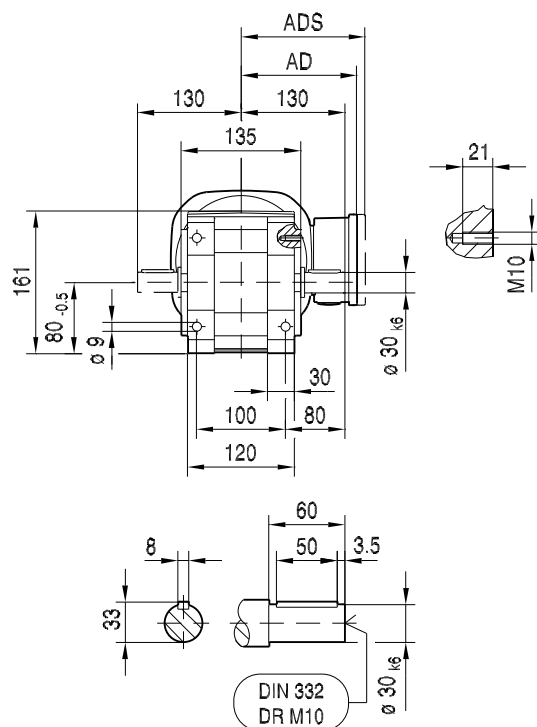
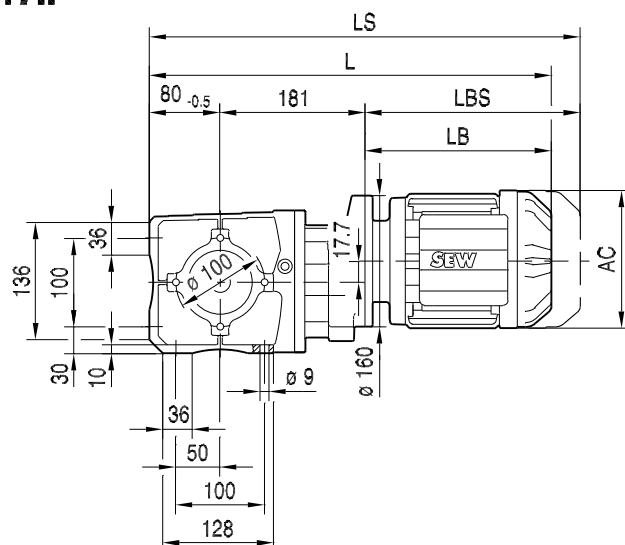
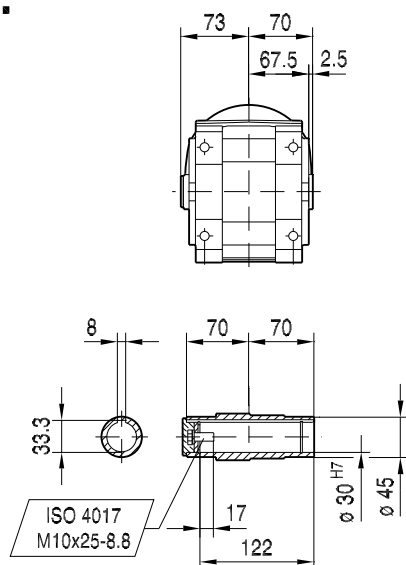
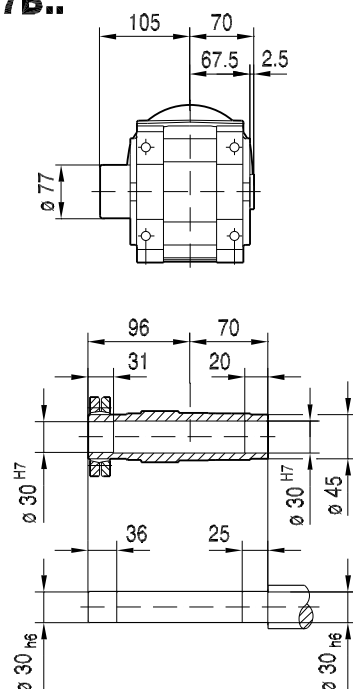
20 015 00 14



(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L		
AC	132	139	139	156	179	179		
AD	105	119	119	128	140	140		
ADS	105	129	129	139	150	150		
L	394	405	430	485	486	518		
LS	449	473	498	566	580	612		
LB	191	202	227	282	283	315		
LBS	246	270	295	363	377	409		

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20 016 00 14

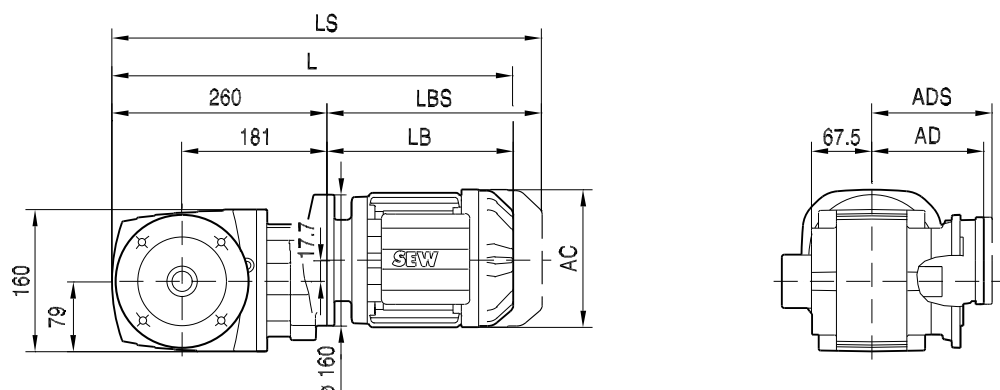
W47..**WA47B..****WH47B..**

(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M
AC	132	139	139	156	179	179	197	197	221
AD	105	119	119	128	140	140	157	157	170
ADS	105	129	129	139	150	150	158	158	172
L	446	457	482	536	538	570	566	616	647
LS	501	525	550	617	631	663	660	710	759
LB	185	196	221	275	277	309	305	355	386
LBS	240	264	289	356	370	402	399	449	498

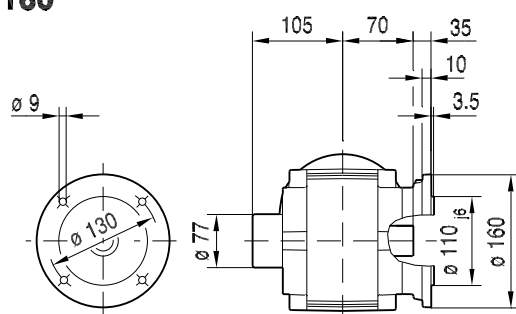
773

20 054 00 15

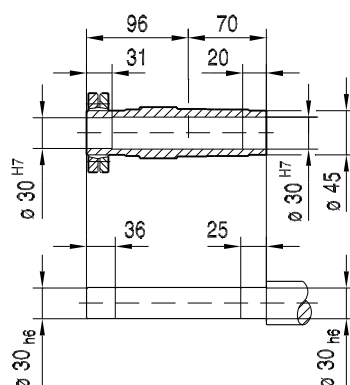
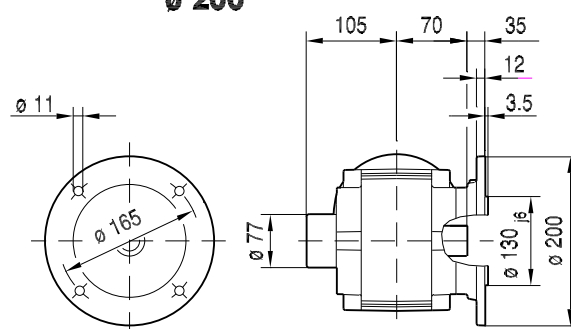
WHF47..



ø 160



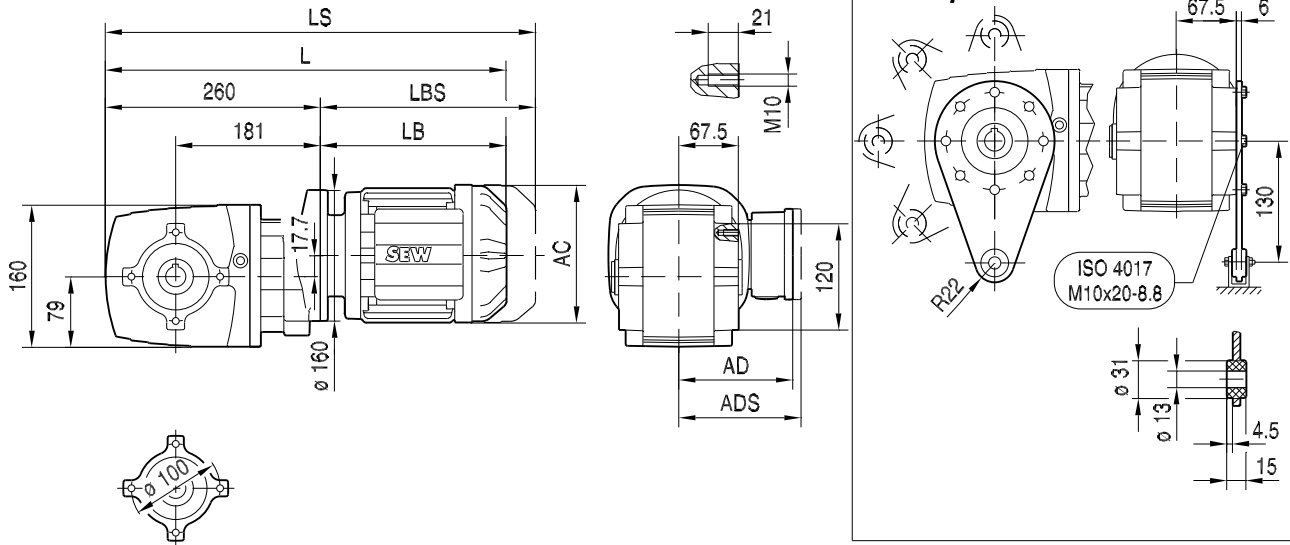
ø 200



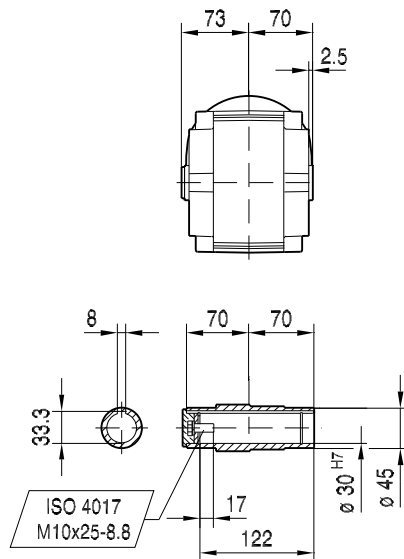
(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M
AC	132	139	139	156	179	179	197	197	221
AD	105	119	119	128	140	140	157	157	170
ADS	105	129	129	139	150	150	158	158	172
L	445	456	481	535	537	569	565	615	646
LS	500	524	549	616	630	662	659	709	758
LB	185	196	221	275	277	309	305	355	386
LBS	240	264	289	356	370	402	399	449	498

WA47..

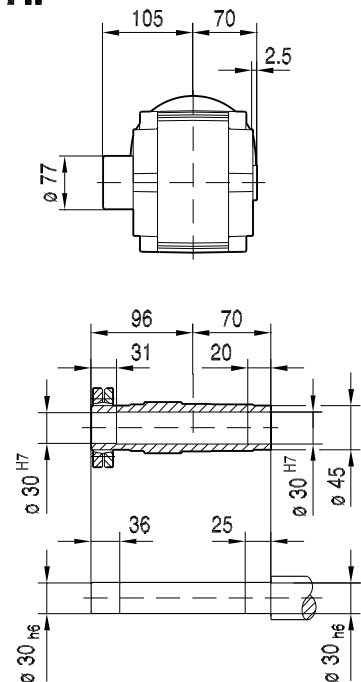
20 018 00 14



WA47..



WH47..

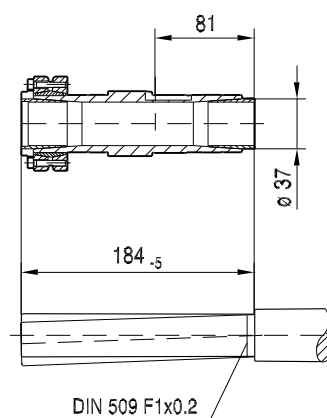
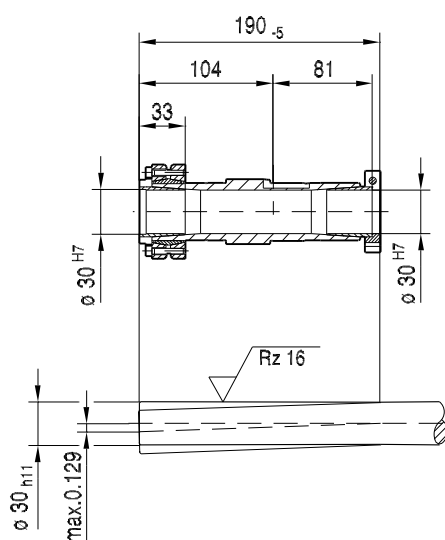
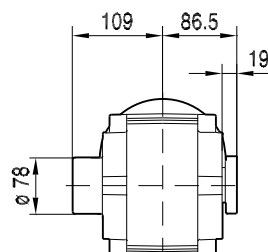
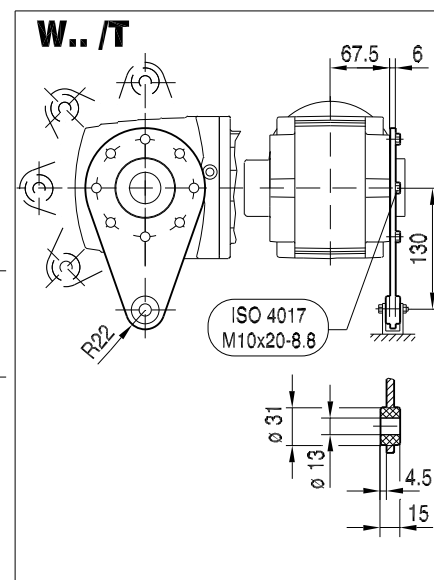
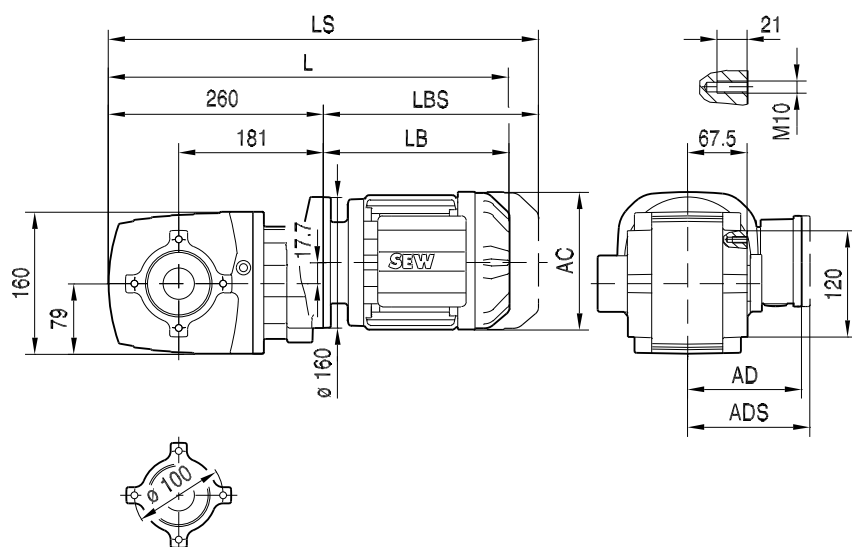


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(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M
AC	132	139	139	156	179	179	197	197	221
AD	105	119	119	128	140	140	157	157	170
ADS	105	129	129	139	150	150	158	158	172
L	445	456	481	535	537	569	565	615	646
LS	500	524	549	616	630	662	659	709	758
LB	185	196	221	275	277	309	305	355	386
LBS	240	264	289	356	370	402	399	449	498

WT47..

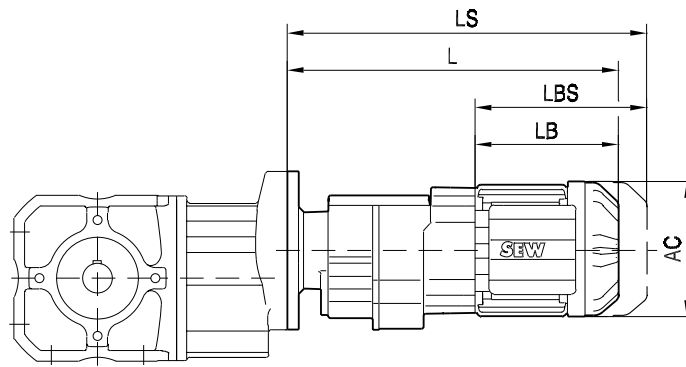
20 019 00 14



(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M
AC	132	139	139	156	179	179	197	197	221
AD	105	119	119	128	140	140	157	157	170
ADS	105	129	129	139	150	150	158	158	172
L	445	456	481	535	537	569	565	615	646
LS	500	524	549	616	630	662	659	709	758
LB	185	196	221	275	277	309	305	355	386
LBS	240	264	289	356	370	402	399	449	498

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20 018 00 09



(→ 155)		AC	L	LS	LB	LBS
W..37R17	DR63..	132	324	379	149	204
	DR71S..	139	335	403	160	228
W..47R17	DR63..	132	324	379	149	204
	DR71S..	139	335	403	160	228
	DR71M..	139	360	428	185	253