

9 Geometrisch mögliche Kombinationen

9.1 Getriebemotoren DRS.. mit BF.. oder BT..

9.1.1 Geometrisch mögliche Kombinationen R..DRS.. mit BF.. oder BT..

RX57DRS..4BF/BT, n _e =1400 1/min						69 Nm	
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) °	i	112M	132S 132M
		RX	RXF				
 1							
255	39	3100	3100	-	5.50*		
276	36	3030	3030	-	5.07		
322	68	2640	2640	-	4.35		
369	69	2480	2480	-	3.79		
394	69	2420	2420	-	3.55*		
446	65	2320	2320	-	3.14		
481	67	2170	2170	-	2.91		
530	69	1810	1810	-	2.64*		
591	69	1500	1500	-	2.37		
686	69	1070	1070	-	2.04		
729	69	880	880	-	1.92*		
848	69	430	430	-	1.65		
946	68	112	112	-	1.48		
1075	63	132	132	-	1.30		

RX67DRS..4BF/BT, n _e =1400 1/min							134 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) °	i		132S 132M
		RX	RXF			112M	
 1							
231	43	4000	4000	-	6.07		
270	75	3580	3580	-	5.18		
309	82	3350	3350	-	4.53		
326	80	3300	3300	-	4.30*		
371	87	3090	3090	-	3.77		
438	100	2800	2800	-	3.20*		
484	106	2640	2640	-	2.89		
551	118	2000	2000	-	2.54		
583	123	1530	1530	-	2.40*		
686	134	230	230	-	2.04		
753	126	225	225	-	1.86		
870	114	245	245	-	1.61		
1000	104	205	205	-	1.40*		

RX77DRS..4BF/BT, n _e =1400 1/min									215 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) °	i	112M	132S 132M	160S	132MC 160M 160MC
		RX	RXF						
 1									
175	57	6330	6330	-	8.00*				
187	53	6200	6200	-	7.47				
218	103	5600	5600	-	6.41				

RX77DRS..4BF/BT, $n_e=1400$ 1/min

215 Nm

n_a rpm	M_{amax} Nm	F_{Ra} N		$\Phi_{(R)}$ °	i	112M	132S 132M	160S	132MC 160M 160MC
		RX	RXF						
249	110	5300	5300	-	5.63				
262	103	5240	5240	-	5.35*				
296	123	4890	4890	-	4.73				
347	143	4490	4490	-	4.04*				
378	153	4280	4280	-	3.70				
431	182	3140	3140	-	3.25*				
455	193	2490	2490	-	3.08*				
519	215	1030	1030	-	2.70				
576	215	425	425	-	2.43				
657	200	360	360	-	2.13				
745	187	255	255	-	1.88*				
838	173	240	240	-	1.67				
986	155	240	240	-	1.42				

RX87DRS..4BF/BT, $n_e=1400$ 1/min

405 Nm

n_a rpm	M_{amax} Nm	F_{Ra} N		$\Phi_{(R)}$ °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		RX	RXF								
162	139	7890	7890	-	8.65						
183	149	7500	7500	-	7.63						
194	140	7380	7380	-	7.20*						
217	192	6860	6860	-	6.45						
252	225	6330	6330	-	5.56*						
276	250	5990	5990	-	5.07						
311	290	5520	5520	-	4.50*						
370	305	5050	5050	-	3.78						
402	405	2810	2810	-	3.48						
453	405	2030	2030	-	3.09						
507	405	1200	1200	-	2.76*						
565	405	470	470	-	2.48						
651	385	42	42	-	2.15						
725	355	185	185	-	1.93						
875	315	74	74	-	1.60*						
1005	290	74	74	-	1.39						

RX97DRS..4BF/BT, $n_e=1400$ 1/min

595 Nm

n_a rpm	M_{amax} Nm	F_{Ra} N		$\Phi_{(R)}$ °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		RX	RXF								
170	225	9570	9570	-	8.23						
196	260	8960	8960	-	7.16*						
213	300	8510	8510	-	6.56						
242	420	7650	7650	-	5.79						
285	395	7240	7240	-	4.91						
310	595	6210	6210	-	4.52						
347	595	5450	5450	-	4.04						
385	595	4610	4610	-	3.64*						

RX97DRS..4BF/BT, $n_e=1400$ 1/min											595 Nm
n_a rpm	M_{amax} Nm	F_{Ra} N		$\Phi_{(R)}$ °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		RX	RXF								
424	595	3820	3820	-	3.30						
479	595	2890	2890	-	2.92						
530	595	2020	2020	-	2.64						
625	595	545	545	-	2.24*						
714	570	19	19	-	1.96						
854	505	51	51	-	1.64						
986	455	132	132	-	1.42						

RX107DRS..4BF/BT, n _e =1400 1/min										830 Nm	
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		RX	RXF								
 1											
211	460	9660	9660	-	6.63*						
250	455	9040	9040	-	5.61						
270	695	7780	7780	-	5.19						
301	695	7380	7380	-	4.65						
333	830	6140	6140	-	4.20*						
367	830	5260	5260	-	3.81						
414	830	4190	4190	-	3.38						
456	830	3300	3300	-	3.07						
530	830	1850	1850	-	2.64*						
609	830	760	760	-	2.30						
718	765	420	420	-	1.95						
819	705	345	345	-	1.71						
972	645	315	315	-	1.44						

R47DRS..4BF/BT, n _e =1400 1/min							300 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) °	i		132S 132M
		R	RF			112M	
 3							
7.9	300	5420	5420	6.9	176.88		
8.6	300	5420	5420	6.9	162.94		
10	300	5420	5420	6.9	139.99		
11	300	5420	5420	6.9	121.87		
12	300	5420	5420	6.9	114.17		
14	300	5420	5420	7	100.86		
15	300	5420	5420	7	93.68		
16	300	5420	5420	7	84.90		
18	300	5420	5420	7	76.23		
20	300	5420	5420	7.6	68.54		
22	300	5420	5420	7.6	64.21		
25	300	5420	5420	7.6	56.73		
27	300	5350	5350	7.6	52.69		
29	300	5140	5140	7.7	47.75		
33	300	4930	4930	7.7	42.87		
38	300	4630	4630	7.7	36.93		
40	300	4520	4520	7.7	34.73		

R47DRS..4BF/BT, $n_e=1400$ 1/min**300 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N		$\Phi_{(R)}$ °	i	112M	132S 132M
		R	RF				
47	300	4240	4240	7.8	29.88		
52	300	4050	4050	7.9	26.70		
59	300	3840	3840	8	23.59		
 2							
41	240	4680	4680	6.5	33.79		
45	220	4610	4610	6.5	31.12		
52	300	4050	4050	6.6	26.74		
60	300	3820	3820	6.6	23.28		
64	300	3710	3710	6.7	21.81		
73	295	3530	3530	6.8	19.27		
78	290	3390	3390	6.8	17.89		
86	275	3350	3350	6.9	16.22		
96	265	3230	3230	7	14.56		
112	250	3080	3080	7.1	12.54		
119	245	3020	3020	7.1	11.79		
138	230	2880	2880	7.3	10.15		
154	220	2780	2780	7.7	9.07		
175	205	2690	2690	7.8	8.01		
180	163	2720	2720	9.5	7.76*		
201	159	2620	2620	9.7	6.96		
233	156	2470	2470	9.9	6.00		
248	155	2410	2410	10	5.64*		
289	150	2280	2280	10.3	4.85		
323	146	2190	2190	11.1	4.34		
366	144	2080	2080	11.4	3.83		

R57DRS..4BF/BT, $n_e=1400$ 1/min**450 Nm**

n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) °	i	112M	132S 132M	132MC
		R	RF					
 3								
7.5	450	7100	7100	6.9	186.89			
8.1	450	7100	7100	6.9	172.17			
9.5	450	7100	7100	6.9	147.92			
11	450	7100	7100	6.9	128.77			
12	450	7100	7100	6.9	120.63			
13	450	7100	7100	7	106.58			
14	450	7100	7100	7	98.99			
16	450	7100	7100	7	89.71			
17	450	7100	7100	7	80.55			
20	450	7100	7100	7.5	69.23			
22	450	6980	6980	7.5	64.85			
24	450	6630	6630	7.6	57.29			
26	450	6430	6430	7.6	53.22			
29	450	6170	6170	7.6	48.23			
32	450	5900	5900	7.6	43.30			
38	450	5530	5530	7.6	37.30*			
40	450	5390	5390	7.7	35.07			
46	450	5040	5040	7.7	30.18			
52	450	4800	4800	7.8	26.97			

R57DRS..4BF/BT, n _e =1400 1/min							450 Nm	
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) °	i	112M	132S 132M	132MC
		R	RF					
 2								
53	450	4750	4750	6.4	26.31			
56	450	4640	4640	6.5	24.99*			
64	450	4370	4370	6.6	21.93			
75	450	4050	4050	6.7	18.60*			
83	450	3860	3860	6.7	16.79			
95	435	3690	3690	6.8	14.77*			
100	430	3610	3610	6.8	13.95*			
118	405	3430	3430	6.9	11.88			
130	390	3330	3330	7.2	10.79			
150	370	3180	3180	7.4	9.35			
155	375	2010	2010	8.7	9.06			
176	355	2020	2020	8.8	7.97			
186	350	1950	1950	8.8	7.53			
218	335	1770	1770	9	6.41			
241	320	1820	1820	9.6	5.82			
277	305	1730	1730	9.9	5.05			
319	280	1900	1900	10.1	4.39			

R67DRS..4BF/BT, n _e =1400 1/min							600 Nm	
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) °	i	112M	132S 132M	132MC
		R	RF					
 3								
7.0	600	7560	7560	6.4	199.81			
7.6	600	7560	7560	6.4	184.07			
8.9	600	7560	7560	6.4	158.14			
10	600	7560	7560	6.4	137.67			
11	600	7560	7560	6.4	128.97			
12	600	7560	7560	6.5	113.94			
13	600	7560	7560	6.5	105.83			
15	600	7560	7560	6.5	95.91			
16	600	7560	7560	6.5	86.11			
19	600	7560	7560	6.5	74.17			
20	600	7560	7560	6.5	69.75			
23	600	7560	7560	7	61.26			
25	600	7560	7560	7	56.89			
27	600	7560	7560	7.1	51.56			
30	600	7560	7560	7.1	46.29			
35	580	7790	7790	7.1	39.88*			
37	570	7900	7900	7.1	37.50			
43	540	8210	8210	7.2	32.27			
49	520	8400	8400	7.3	28.83			
 2								
50	540	8210	8210	6	28.13			
52	540	8210	8210	6	26.72			
60	560	8010	8010	6.1	23.44			
70	600	7560	7560	6.2	19.89			
78	590	7330	7330	6.2	17.95			

R67DRS..4BF/BT, $n_e=1400$ 1/min**600 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N		$\Phi_{(R)}$ °	i	112M	132S 132M	132MC
		R	RF					
89	560	7130	7130	6.3	15.79			
94	550	6980	6980	6.3	14.91			
110	520	6640	6640	6.4	12.70			
121	500	6500	6500	6.7	11.54			
140	470	6220	6220	6.8	10.00			
161	440	5960	5960	7	8.70*			
180	380	5830	5830	8.3	7.79			
190	370	5790	5790	8.3	7.36*			
223	330	5590	5590	8.5	6.27			
246	310	5450	5450	9.1	5.70			
284	290	5210	5210	9.4	4.93			
326	270	5000	5000	9.7	4.29			

R77DRS..4BF/BT, $n_e=1400$ 1/min**820 Nm**

n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) °	i	112M	132S 132M	160S	132MC 160M 160MC
		R	RF						
3									
7.2	820	9920	9920	6.4	195.24*				
8.4	820	9920	9920	6.5	166.59				
9.6	820	9920	9920	6.4	145.67				
10	820	9920	9920	6.4	138.39				
12	820	9920	9920	6.5	121.42				
14	820	9920	9920	6.5	102.99				
15	820	9920	9920	6.5	92.97				
17	820	9920	9920	6.5	81.80				
18	820	9920	9920	6.5	77.24				
21	820	9920	9920	6.5	65.77				
24	820	9920	9920	7.1	57.68				
27	820	9920	9920	7.1	52.07				
31	820	9920	9920	7.1	45.81				
32	820	9920	9920	7.1	43.26				
38	820	9920	9920	7.1	36.83				
42	820	9920	9920	7.2	33.47				
48	820	9920	9920	7.3	29.00				
55	780	10100	10100	7.3	25.23				
2									
60	820	8870	8870	6.1	23.37				
65	820	8250	8250	6.1	21.43				
74	780	7980	7980	6.1	18.80				
79	780	7620	7620	6.2	17.82*				
90	740	7390	7390	6.2	15.60				
100	720	7050	7050	6.5	14.05				
114	690	6740	6740	6.4	12.33				
129	660	6490	6490	6.5	10.88				
145	630	6300	6300	6.7	9.64				
163	630	4110	4110	7.5	8.59				
181	610	3940	3940	7.9	7.74				
206	580	3850	3850	7.8	6.79				
234	540	3990	3990	8	5.99*				

R77DRS..4BF/BT, n _e =1400 1/min							820 Nm		
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) °	i	112M	132S 132M	160S	132MC 160M 160MC
		R	RF						
264	510	3990	3990	8.4	5.31*				

R87DRS..4BF/BT, n _e =1400 1/min											1550 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) '	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		R	RF								
 3											
5.7	1550	16900	16900	6	246.54						
6.5	1550	16900	16900	6	216.54						
6.8	1550	16900	16900	6	205.71						
7.7	1550	16900	16900	6	181.77						
9.0	1550	16900	16900	6	155.34						
9.8	1550	16900	16900	6	142.41						
11	1550	16900	16900	6	124.97						
12	1550	16900	16900	6	118.43*						
14	1550	16900	16900	6	103.65						
15	1550	16900	16900	6	93.38						
17	1550	16900	16900	6	81.92						
19	1550	16900	16900	6.4	72.57						
22	1550	15800	15800	6.4	63.68*						
23	1550	15200	15200	6.4	60.35*						
27	1550	13500	13500	6.5	52.82						
29	1550	12300	12300	6.5	47.58						
34	1550	10800	10800	6.5	41.74						
38	1550	9470	9470	6.5	36.84*						
43	1550	8220	8220	6.6	32.66*						
50	1500	7370	7370	6.6	27.88						
 2											
41	1500	9480	9480	5.5	34.40*						
45	1550	7820	7820	5.5	31.40						
50	1550	6640	6640	5.5	27.84*						
60	1550	5000	5000	5.5	23.40						
65	1500	4970	4970	5.7	21.51						
73	1440	4800	4800	5.7	19.10						
82	1390	4580	4580	5.8	17.08*						
91	1340	4450	4450	5.9	15.35						
105	1280	4220	4220	6	13.33						
117	1230	4120	4120	6	11.93						
141	1180	3520	3520	6.1	9.90*						
153	1210	99	99	6.3	9.14*						
170	1160	225	225	6.6	8.22						
196	1070	820	820	6.7	7.13						
219	1020	970	970	6.8	6.39						
264	910	1710	1710	7	5.30*						

R97DRS..4BF/BT, n _e =1400 1/min											3000 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) '	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		R	RF								
 3											
4.8	3000	19800	19800	5.7	289.74						
5.5	3000	19800	19800	5.7	255.71						
5.8	3000	19800	19800	5.7	241.25						
6.5	3000	19800	19800	5.7	216.28						
7.5	3000	19800	19800	5.7	186.30						
8.2	3000	19800	19800	5.7	170.02						
9.3	3000	19800	19800	5.7	150.78						
11	3000	19800	19800	5.7	126.75						
12	3000	19800	19800	5.7	116.48						
14	3000	19800	19800	5.7	103.44						
15	3000	19800	19800	5.7	92.48						
17	3000	19800	19800	5.8	83.15						
19	3000	18000	18000	5.8	72.17						
21	3000	16300	16300	6.1	65.21						
23	3000	14800	14800	6.2	59.92						
26	3000	12900	12900	6.2	53.21						
29	3000	11100	11100	6.2	47.58						
33	3000	9480	9480	6.2	42.78						
38	3000	7410	7410	6.3	37.13						
42	2890	7160	7160	6.3	33.25						
51	2670	7260	7260	6.3	27.58						
 2											
44	2560	10600	10600	5.3	32.05						
51	2560	8380	8380	5.3	27.19						
56	2830	4140	4140	5.4	25.03						
63	2720	4060	4060	5.5	22.37						
70	2610	4110	4110	5.5	20.14						
77	2500	4270	4270	5.6	18.24						
87	2400	4130	4130	5.6	16.17						
96	2300	4240	4240	5.6	14.62						
113	2190	3850	3850	5.7	12.39						
129	2090	3720	3720	5.8	10.83						
151	2030	-	-	5.6	9.29						
167	2030	-	-	5.7	8.39						
197	2000	-	-	5.8	7.12						
225	1890	-	-	5.9	6.21						
269	1780	-	-	6.1	5.20						
311	1630	-	-	6.2	4.50*						

R107DRS..4BF/BT, n _e =1400 1/min										4300 Nm	
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) '	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		R	RF								
 3											
5.6	4300	29500	29500	7	251.15						
6.1	4300	29500	29500	7	229.95						
6.9	4300	29500	29500	7	203.16						
8.1	4300	29500	29500	7	172.34						

R107DRS..4BF/BT, $n_e=1400$ 1/min											4300 Nm
n_a rpm	M_{amax} Nm	F_{Ra}		$\Phi_{(R)}$ °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		R	RF								
8.8	4300	29500	29500	7	158.68						
9.9	4300	29500	29500	7	141.83						
11	4300	29500	29500	7	127.68						
12	4300	29500	29500	7	115.63						
14	4300	29500	29500	7	102.53						
15	4300	29500	29500	7	92.70						
18	4300	29500	29500	7.1	78.57						
19	4300	29500	29500	7.3	72.88						
21	4300	29200	29200	7.3	65.60*						
24	4300	28000	28000	7.4	59.41						
27	4300	26600	26600	7.4	52.68						
29	4300	25500	25500	7.4	47.63						
35	4300	23800	23800	7.4	40.37*						
40	4300	22400	22400	7.4	35.26						
47	4300	20700	20700	7.5	29.49						
 2											
45	4300	21100	21100	6.7	30.77						
51	4300	20100	20100	6.8	27.58						
56	4300	19200	19200	6.8	24.90*						
62	4300	18300	18300	6.9	22.62						
70	4300	17300	17300	6.9	20.07						
77	4300	16600	16600	6.8	18.21						
89	4300	15400	15400	6.9	15.65						
102	4300	14400	14400	6.9	13.66						
121	4300	13300	13300	7	11.59						
138	4300	12400	12400	7.1	10.13						
164	4300	11300	11300	7.2	8.56						
178	2970	13800	13800	8.8	7.86						
210	2970	12800	12800	8.9	6.66						
241	2970	12100	12100	9	5.82						
285	2900	11300	11300	9.3	4.92						

R137DRS..4BF/BT, n _e =1400 1/min											8000 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(R) °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		R	RF								
 3											
6.3	8000	53400	53400	6	222.60*						
7.4	8000	53400	53400	6	188.45						
8.0	8000	53400	53400	6.1	174.40*						
9.0	8000	53400	53400	6.1	156.31						
9.9	8000	53400	53400	6.1	141.12*						
11	8000	53400	53400	6.1	128.18						
12	8000	53400	53400	6.1	113.72						
14	8000	53400	53400	6.1	103.20*						
16	8000	53400	53400	6.1	88.70*						
17	8000	53400	53400	6.4	80.91*						
19	8000	53400	53400	6.4	73.49						
21	8000	53400	53400	6.4	65.20						

R137DRS..4BF/BT, $n_e=1400$ 1/min**8000 Nm**

n_a rpm	M_{amax} Nm	F_{Ra}		$\Phi_{(R)}$ °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		R	RF								
24	8000	53400	53400	6.4	59.17*						
28	8000	53400	53400	6.4	50.86*						
32	8000	53400	53400	6.4	44.39						
37	8000	53400	53400	6.4	37.65						
43	8000	53400	53400	6.5	32.91						
50	7680	54100	54100	6.5	27.83						



2

47	7780	53900	53900	5.7	29.57*						
58	8000	49400	49400	5.8	24.12						
64	8000	47100	47100	5.8	22.00*						
74	8000	43500	43500	5.9	19.04*						
83	8000	40600	40600	5.9	16.80*						
96	8000	37300	37300	5.9	14.51						
109	8000	34700	34700	6	12.83						
130	8000	31100	31100	6.1	10.79						
161	7840	27600	27600	6.1	8.71						
184	5110	39000	39000	8	7.59						
219	5110	35900	35900	8.2	6.38						
272	4600	34500	34500	8.2	5.15						

R147DRS..4BF/BT, $n_e=1400$ 1/min**13000 Nm**

n_a rpm	M_{amax} Nm	F_{Ra}		$\Phi_{(R)}$ °	i	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		R	RF							



3

8.6	13000	62700	62700	5.5	163.31					
9.5	13000	62700	62700	5.5	146.91					
12	13000	62700	62700	5.5	119.86					
13	13000	62700	62700	5.5	109.31					
15	13000	62700	62700	5.5	94.60*					
17	13000	62700	62700	5.5	83.47					
19	13000	62700	62700	5.5	72.09					
21	13000	62700	62700	5.8	66.99					
23	13000	62700	62700	5.8	61.09					
26	13000	62700	62700	5.8	52.87					
30	13000	62700	62700	5.8	46.65					
35	13000	62700	62700	5.8	40.29					
39	13000	62700	62700	5.9	35.64					
47	13000	62700	62700	5.9	29.95					
58	11900	64700	64700	5.9	24.19					



2

68	12000	64600	64600	5.2	20.44					
78	10500	67000	67000	5.3	18.04					
90	13000	62700	62700	5.3	15.64					
101	12600	63400	63400	5.3	13.91					
117	13000	60400	60400	5.4	11.99					
144	13000	54400	54400	5.5	9.74					
169	13000	49900	49900	5.6	8.26					
193	8670	58400	58400	7.5	7.25					

R147DRS..4BF/BT, $n_e=1400$ 1/min										13000 Nm
n_a rpm	M_{amax} Nm	F_{Ra}		$\Phi_{(R)}$ °	i	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		R	RF							
238	8670	53200	53200	7.6	5.89					
280	8670	49300	49300	7.8	5.00					

R167DRS..4BF/BT, n _e =1400 1/min										18000 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) °	i	160S	160M 160MC 180S	180M 180L	180LC	
		R	RF							
 3										
6.1	18000	120000	120000	5.2	229.71					
7.5	18000	120000	120000	5.2	186.93*					
9.1	18000	120000	120000	5.2	153.07					
10	18000	120000	120000	5.2	139.98					
11	18000	120000	120000	5.2	121.81*					
13	18000	120000	120000	5.2	107.49					
15	18000	120000	120000	5.2	93.19					
17	18000	120000	120000	5.2	82.91*					
19	18000	120000	120000	5.6	73.70*					
21	18000	120000	120000	5.6	67.40					
24	18000	120000	120000	5.6	58.65					
27	18000	120000	120000	5.6	51.76					
31	18000	120000	120000	5.6	44.87					
35	18000	120000	120000	5.6	39.92					
41	18000	120000	120000	5.6	34.41					
50	18000	120000	120000	5.7	27.96					
59	18000	116500	116500	5.7	23.71					
 2										
30	7000	120000	120000	5	46.00					
37	9000	120000	120000	5	37.74					
46	10000	120000	120000	5	30.71					
57	14000	120000	120000	5.1	24.57					
64	13000	120000	120000	5.1	21.85					
74	16000	111400	111400	5.1	19.03					
82	15000	108900	108900	5.1	16.98					
97	18000	93800	93800	5.2	14.48					
117	17000	88700	88700	5.3	11.99					
137	17000	82500	82500	5.3	10.24					

9.1.2 Geometrisch mögliche Kombinationen F..DRS.. mit BF.. oder BT..

F57DRS..4BF/BT, n _e =1400 1/min								600 Nm	
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) '	i	112M	132S 132M
		F	FF	FA	FAF				
 3									
7.0	600	9200	7900	11500	11500	6	199.70		
7.6	600	9200	7900	11500	11500	6.1	183.60		
8.9	600	9200	7900	11500	11500	6.1	157.09		
10	600	9200	7900	11500	11500	6.1	136.16		
11	600	9200	7900	11500	11500	6.1	127.27		
13	600	9200	7900	10800	10800	6.1	110.01		
15	600	9200	7900	9960	9960	6.1	93.47		
17	600	9200	7900	9420	9420	6.1	83.46		
19	600	9200	7900	8810	8810	6.5	72.98		
21	600	9200	7900	8510	8510	6.5	68.22		
24	600	9200	7900	7890	7890	6.5	58.97		
28	600	9200	7900	7230	7230	6.6	50.10		
31	600	9160	7900	6790	6790	6.6	44.73		
37	600	8510	7900	6210	6210	6.6	38.21		
39	600	8250	7900	5980	5980	6.6	35.79		
46	590	7650	7850	5460	5460	6.7	30.15		
 2									
35	290	10500	9550	8750	8750	5.7	40.13		
41	500	8670	8500	6580	6580	5.7	34.24		
47	545	7890	8060	5790	5790	5.6	29.94		
49	535	7760	7930	5690	5690	5.7	28.45		
56	575	7060	7260	4970	4970	5.8	24.96		
66	600	6350	6580	4280	4280	5.8	21.17		
73	600	6020	6260	3980	3980	5.9	19.11		
83	600	5620	5860	3630	3630	5.9	16.81		
88	600	5450	5690	3470	3470	6	15.88		
104	600	4980	5230	3050	3050	6.1	13.52		
114	600	4710	4970	2810	2810	6.3	12.29		
132	600	4320	4590	2470	2470	6.4	10.64		
150	420	4760	4950	3170	3170	7.6	9.31		
171	420	4450	4640	2880	2880	7.8	8.19		
181	420	4310	4500	2760	2760	7.8	7.73		
213	420	3940	4140	2430	2430	8	6.58		
234	420	3730	3940	2240	2240	8.6	5.98		
270	415	3460	3670	2020	2020	8.8	5.18		

F67DRS..4BF/BT, n _e =1400 1/min										820 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) '	i	112M	132S 132M	132MC
		F	FF	FA	FAF					
 3										
6.1	820	10300	10300	13000	13000	5.7	228.99			
7.2	820	10300	10300	13000	13000	5.8	195.39			
8.2	820	10300	10300	12700	12700	5.7	170.85			
8.6	820	10300	10300	12400	12400	5.7	162.31			
9.8	820	10300	10300	11700	11700	5.8	142.40			

F67DRS..4BF/BT, $n_e=1400$ 1/min										820 Nm
n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	112M	132S 132M	132MC
		F	FF	FA	FAF					
12	820	10300	10300	10800	10800	5.8	120.79			
13	820	10300	10300	10200	10200	5.8	109.04			
15	820	10300	10300	9570	9570	5.8	95.94			
15	820	10300	10300	9290	9290	5.8	90.59			
18	820	10300	10300	8680	8680	6.3	79.76			
21	820	10300	10300	7930	7930	6.3	67.65			
23	820	10300	10300	7480	7480	6.3	61.07			
26	820	10300	10300	6940	6940	6.3	53.73			
28	820	10300	10300	6710	6710	6.3	50.74			
32	820	10300	10300	6080	6080	6.3	43.20			
36	780	10700	10700	5980	5980	6.4	39.26			
41	740	11000	11000	5730	5730	6.5	34.01			
 2										
39	820	10300	10300	5440	5440	5.3	36.30			
44	820	10300	10300	5000	5000	5.4	32.08			
51	820	10300	10300	4470	4470	5.4	27.41			
56	820	10300	10300	4190	4190	5.4	25.13			
63	820	10300	10300	3780	3780	5.5	22.05			
67	820	10300	10300	3620	3620	5.5	20.90*			
77	820	10300	10300	3230	3230	5.6	18.29			
85	820	10300	10300	2940	2940	5.8	16.48			
97	820	10300	10300	2580	2580	5.7	14.46			
110	820	10300	10300	2260	2260	5.8	12.76			
124	820	10300	10300	1960	1960	6	11.31			
145	820	10300	10300	1580	1580	6.1	9.66			
154	530	11400	11600	2620	2620	8	9.08			
163	570	10900	11200	2180	2180	8.1	8.60			
186	610	10100	10400	1570	1570	8.2	7.53			
206	620	9660	9950	1280	1280	8.7	6.78			
235	610	9200	9500	1090	1090	8.6	5.95			
267	590	8850	9140	1010	1010	8.8	5.25			
300	560	8590	8860	1020	1020	9.3	4.66			
353	500	8390	8620	1220	1220	9.6	3.97			

F77DRS..4BF/BT, n _e =1400 1/min											1500 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	112M	132S 132M	160S	132MC 160M 160MC
		F	FF	FA	FAF						
 3											
5.0	1500	15700	17100	20000	20000	5.4	281.71				
5.3	1500	15700	17100	20000	20000	5.4	262.93				
6.2	1500	15700	17100	19300	19300	5.4	225.79				
7.1	1500	15700	17100	18100	18100	5.4	198.31				
7.4	1500	15700	17100	17700	17700	5.4	188.40				
8.4	1500	15700	17100	16700	16700	5.5	166.47				
9.8	1500	15700	17100	15400	15400	5.5	142.27				
11	1500	15700	17100	14800	14800	5.5	130.42				
12	1500	15700	17100	13800	13800	5.5	114.45				
13	1500	15700	17100	13400	13400	5.5	108.46*				
15	1500	15700	17100	12500	12500	5.5	94.93				

F77DRS..4BF/BT, $n_e=1400$ 1/min**1500 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	112M	132S 132M	160S	132MC 160M 160MC
		F	FF	FA	FAF						
16	1500	15700	17100	11800	11800	5.5	85.52				
19	1500	15700	17100	11000	11000	5.5	75.02				
19	1500	15700	17100	10700	10700	5.9	72.50				
21	1500	15700	17100	10200	10200	5.9	66.46				
24	1500	15700	17100	9450	9450	6	58.32				
25	1500	15700	17100	9140	9140	6	55.27				
29	1500	15700	17100	8410	8410	6	48.37				
32	1500	15700	17100	7850	7850	6.1	43.58				
37	1500	15700	17100	7190	7190	6	38.23				
41	1500	15700	17100	6580	6580	6.1	33.74				
47	1500	15700	17100	6010	6010	6.1	29.91				
55	1450	16100	17300	5560	5560	6.2	25.54				



38	1110	17900	18300	8990	8990	4.9	36.58				
44	1380	16500	17500	6870	6870	4.9	31.51				
49	1430	16200	17300	6190	6190	4.9	28.75				
55	1500	15700	17100	5300	5300	4.9	25.50*				
65	1500	15700	17100	4560	4560	5	21.43				
71	1500	15700	17100	4220	4220	5.1	19.70				
80	1500	15700	17100	3750	3750	5.2	17.49				
90	1500	15700	17100	3330	3330	5.2	15.64*				
100	1500	15700	16700	2940	2940	5.4	14.06				
115	1500	14900	15800	2450	2450	5.4	12.20				
128	1500	14200	15100	2080	2080	5.5	10.93				
151	1080	13800	14600	2300	2300	7.1	9.30				
169	1080	13100	13900	1940	1940	7.1	8.26				
189	1080	12500	13300	1610	1610	7.2	7.39				
211	1080	12000	12700	1310	1310	7.5	6.64				
243	1080	11300	12000	930	930	7.7	5.76				
271	1080	10700	11500	640	640	7.8	5.16				
327	1010	10200	10900	630	630	8.1	4.28				

F87DRS..4BF/BT, $n_e=1400$ 1/min**3000 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		F	FF	FA	FAF								
5.2	3000	19800	19800	29800	29800	7	270.68						
5.5	3000	19800	19800	28900	28900	7	255.37						
6.1	3000	19800	19800	27300	27300	7	228.93						
7.1	3000	19800	19800	25300	25300	7	197.20						
7.8	3000	19800	19800	24100	24100	7	179.97						
8.8	3000	19800	19800	22500	22500	7	159.61						
10	3000	19800	19800	20400	20400	7	134.16						
11	3000	19800	19800	19400	19400	7	123.29						
13	3000	19800	19800	18100	18100	7.1	109.49						
14	3000	19800	19800	16900	16900	7.1	97.89						
16	3000	19800	19800	15800	15800	7.1	88.01						
18	3000	19800	19800	14300	14300	7.1	76.39						



F87DRS..4BF/BT, n _e =1400 1/min								3000 Nm					
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(R) °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		F	FF	FA	FAF								
20	3000	19600	19800	13300	13300	7.1	68.40						
25	3000	17700	19800	11600	11600	7.1	56.75						
28	2940	16800	21500	10800	10800	7.5	50.36						
31	2820	16200	21700	10500	10500	7.5	45.28						
36	2720	15400	22000	9910	9910	7.5	39.30						
40	2610	14900	22200	9610	9610	7.6	35.19						
48	2510	13800	22400	8740	8740	7.6	29.20						
🔧 2													
41	2610	14600	22200	9340	9340	6.6	33.92						
49	2450	13900	22500	8940	8940	6.6	28.78						
53	3000	11100	19800	5610	5610	6.8	26.50						
59	3000	10300	19100	4850	4850	6.8	23.68						
66	3000	9520	18000	4160	4160	6.8	21.32*						
73	3000	8840	17000	3540	3540	6.9	19.31						
82	3000	8040	15800	2810	2810	6.9	17.12						
90	3000	7390	14700	2220	2220	7	15.48						
107	3000	6370	13100	1300	1300	7	13.12*						
122	3000	5580	11800	575	575	7.1	11.46						
146	2880	5050	11000	275	275	7.2	9.58						
169	1530	8890	15800	5550	5550	6.7	8.29						
190	1530	8280	15000	5000	5000	6.8	7.35						
211	1530	7790	14400	4550	4550	6.8	6.65						
249	1530	7020	13400	3850	3850	7	5.63						
285	1530	6430	12600	3310	3310	7.1	4.92						
340	1460	5980	11800	3020	3020	7.4	4.12						

F97DRS..4BF/BT, n _e =1400 1/min											4300 Nm		
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(R) °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		F	FF	FA	FAF								
 3													
5.1	4300	29900	28300	40000	40000	6	276.77						
5.5	4300	29900	28300	40000	40000	6	253.41						
6.3	4300	29900	28300	40000	40000	6	223.88						
7.4	4300	29900	28300	40000	40000	6	189.92						
8.0	4300	29900	28300	40000	40000	6	174.87						
9.0	4300	29900	28300	40000	40000	6	156.30						
9.9	4300	29900	28300	40000	40000	6	140.71						
11	4300	29900	28300	40000	40000	6	127.42						
12	4300	29900	28300	40000	40000	6	112.99						
14	4300	29900	28300	38100	38100	6	102.16						
14	4300	29900	28300	37200	37200	6.2	97.58						
16	4300	29900	28300	35700	35700	6.3	89.85						
16	4300	29900	28300	35100	35100	6	86.59						
17	4300	29900	28300	33800	33800	6.3	80.31						
19	4300	29900	28300	32800	32800	6	75.63						
19	4300	29900	28300	32000	32000	6.3	72.29						
21	4300	29000	28300	30400	30400	6.3	65.47						
24	4300	27200	28300	28500	28500	6.3	58.06						

F97DRS..4BF/BT, $n_e=1400$ 1/min**4300 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		F	FF	FA	FAF								
27	4300	25800	28300	26900	26900	6.3	52.49						
31	4300	23600	28300	24500	24500	6.4	44.49						
36	4300	21900	28300	22700	22700	6.4	38.86						
43	4300	19800	28300	20300	20300	6.4	32.50						
 2													
32	3070	27600	30200	29300	29300	5.6	43.28						
38	3070	25500	30200	27000	27000	5.6	36.64						
41	4300	20300	28300	20900	20900	5.7	33.91						
46	4300	19000	28300	19500	19500	5.8	30.39						
51	4300	17900	27800	18200	18200	5.8	27.44*						
56	4300	16800	26600	17100	17100	5.8	24.92						
63	4300	15600	25200	15700	15700	5.9	22.11						
70	4300	14600	24100	14700	14700	5.8	20.07						
81	4300	13200	22500	13100	13100	5.9	17.25*						
93	4300	11900	21100	11700	11700	5.9	15.06						
110	4300	10500	19400	10100	10100	6	12.77						
125	4100	10000	18700	9710	9710	6	11.16						
155	2360	13400	21100	13900	13900	8.6	9.06						
170	2360	12600	20300	13100	13100	8.5	8.22						
198	2360	11500	19000	11900	11900	8.6	7.07						
227	2250	11100	18300	11400	11400	8.7	6.17						
268	2150	10400	17400	10700	10700	8.8	5.23						
306	2050	9950	16800	10200	10200	9	4.57						
362	1800	9960	16500	10300	10300	9	3.87						

9

F107DRS..4BF/BT, $n_e=1400$ 1/min**7840 Nm**

n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) '	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		F	FF	FA	FAF								
🔧 3													
5.5	7680	49800	51100	58600	65000	5.4	254.40*						
6.5	7680	49800	51100	54000	65000	5.4	215.37						
7.0	7680	49800	51100	52000	65000	5.4	199.31						
7.8	7680	49800	51100	49100	65000	5.4	178.64						
8.7	7680	49800	51100	46600	65000	5.4	161.28*						
9.6	7680	49800	51100	44200	65000	5.4	146.49						
11	7680	49800	51100	41400	65000	5.4	129.97						
12	7680	49800	51100	39300	65000	5.4	117.94						
14	7680	49800	51100	36000	65000	5.4	101.38*						
15	7680	49800	51100	34100	65000	5.6	92.47*						
16	7680	49800	51100	33200	65000	5.4	88.49						
17	7680	49800	51100	32200	65000	5.7	83.99						
19	7680	49800	51100	29900	65000	5.7	74.52						
21	7680	49800	51100	28000	65000	5.7	67.62						
24	7680	47800	51100	25300	65000	5.7	58.12*						
28	7680	45100	51100	23000	65000	5.7	50.73						
33	7680	42000	49000	20300	65000	5.7	43.03						
37	7680	39500	46300	18300	65000	5.7	37.61						
44	7680	36500	42700	15800	65000	5.8	31.80						

F107DRS..4BF/BT, $n_e=1400$ 1/min

7840 Nm

n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(R) °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		F	FF	FA	FAF								
🌀 2													
41	7400	38300	44900	17700	65000	5.1	33.79*						
51	7840	33300	38800	13200	65000	5.2	27.57						
56	7840	31500	36800	12000	64500	5.2	25.14						
64	7840	28800	33800	10100	60600	5.2	21.76*						
73	7840	26500	31200	8600	57400	5.2	19.20*						
84	7840	23900	28200	6870	53800	5.3	16.58						
95	7680	22400	26500	6050	51500	5.3	14.67						
114	7000	22600	26600	6580	49800	5.4	12.33						
141	6500	21500	25300	6200	47000	5.4	9.96						
144	4910	23500	27300	9670	50000	6.7	9.69						
167	4800	22000	25600	8720	47400	6.7	8.37						
189	4600	21300	24800	8400	45800	6.8	7.40						
225	4600	19000	22200	6920	42600	7	6.22						
278	4600	16400	19200	4520	39000	7	5.03						

F127DRS..4BF/BT, $n_e=1400$ 1/min

12000 Nm

n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		F	FF	FA	FAF								
3													
8.2	12000	90000	87700	48500	90000	4.9	170.83						
9.1	12000	90000	87700	45500	90000	4.9	153.67*						
11	12000	90000	87700	40000	90000	4.9	125.37						
12	12000	88000	87700	37700	90000	4.9	114.34						
14	12000	83000	87700	34100	90000	4.9	98.95						
16	12000	79000	87700	31200	90000	4.9	87.31*						
19	12000	74300	85600	27900	90000	4.9	75.41*						
20	12000	72100	83200	26300	90000	5.2	70.07						
22	12000	69400	80300	24300	90000	5.2	63.91						
25	12000	65200	75500	21400	90000	5.2	55.31						
29	12000	61300	71000	18900	90000	5.2	48.80						
33	12000	56800	66000	16200	90000	5.2	42.15						
38	12000	53200	61900	14000	90000	5.2	37.28						
45	12000	48300	56300	11100	86400	5.3	31.33						
55	12000	42400	49800	7720	78800	5.3	25.30						
2													
52	8500	55300	63500	19800	90000	4.6	26.86						
57	8500	53300	61300	18400	88300	4.6	24.57						
65	12000	38000	44800	4380	73100	4.7	21.38						
74	11000	38800	45500	6620	72100	4.7	18.87						
86	11000	35400	41600	3190	67700	4.7	16.36						
96	11000	32600	38500	475	64200	4.7	14.55						
112	10000	33300	39100	2670	63000	4.8	12.54						
137	9500	30900	36300	1090	58900	4.9	10.19						
158	7000	36400	42600	8410	61400	6.3	8.86						
178	6000	37000	42800	10600	61800	6.4	7.88						
206	7000	32200	38100	5670	55000	6.5	6.80						
254	6000	31700	37100	7110	53500	6.7	5.52						

F127DRS..4BF/BT, $n_e=1400$ 1/min**12000 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		F	FF	FA	FAF								
299	6000	29500	34700	5630	50000	6.8	4.68						

F157DRS..4BF/BT, $n_e=1400$ 1/min**18000 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	160S	160M 160MC 180S	180M 180L	180LC
		F	FF	FA	FAF						



3

5.2	18000	100300	100300	120000	120000	4.5	267.43				
6.4	18000	100300	100300	120000	120000	4.5	217.62*				
7.9	18000	100300	100300	120000	120000	4.5	178.20*				
8.6	18000	100300	100300	120000	120000	4.5	162.96				
9.9	18000	100300	100300	120000	120000	4.5	141.80*				
11	18000	100300	100300	120000	120000	4.5	125.14				
13	18000	100300	100300	120000	120000	4.5	108.49				
15	18000	100300	100300	120000	120000	4.5	96.53*				
16	18000	95800	100300	120000	120000	4.8	85.80*				
18	18000	92300	100300	115700	115700	4.8	78.46				
21	18000	87000	96700	109100	109100	4.8	68.28*				
23	18000	82500	91900	103400	103400	4.8	60.25				
27	18000	77500	86700	97200	97200	4.8	52.24				
30	18000	73600	82700	92400	92400	4.8	46.48*				
35	18000	68900	77700	86400	86400	4.9	40.06				
43	18000	62500	71000	78500	78500	4.9	32.55				
51	18000	57800	66100	72600	72600	4.9	27.60				



2

26	8000	98300	105400	120000	120000	4.3	53.55				
32	10000	87800	95000	109900	109900	4.3	43.94*				
39	11000	79300	86400	99300	99300	4.4	35.75*				
49	17000	60800	68900	76300	76300	4.4	28.60*				
55	15000	61500	69000	77100	77100	4.4	25.43				
63	18000	51800	59800	65100	65100	4.4	22.16				
71	17000	50900	58500	63900	63900	4.4	19.77				
83	18000	44900	52600	56400	56400	4.5	16.85				
100	17000	42500	49700	53400	53400	4.6	13.96				
117	16000	40900	47800	51400	51400	4.6	11.92				

9.1.3 Geometrisch mögliche Kombinationen K..DRS.. mit BF.. oder BT..

K47DRS..4BF/BT, n _e =1400 1/min								400 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	112M
		K	KF	KA	KAF			
 3								
11	400	5920	5920	8700	8700	6.4	131.87*	
12	400	5920	5920	8360	8360	6.4	121.48*	
13	400	5920	5920	7760	7760	6.4	104.37	
15	400	5920	5920	7240	7240	6.4	90.86	
16	400	5920	5920	7000	7000	6.4	85.12*	
19	400	5920	5920	6570	6570	6.5	75.20*	
20	400	5920	5920	6320	6320	6.5	69.84	
22	400	5920	5920	5990	5990	6.5	63.30*	
25	400	5920	5920	5640	5640	6.5	56.83	
29	400	5920	5920	5190	5190	6.6	48.95*	
30	400	5920	5920	5000	5000	6.6	46.03*	
35	400	5920	5920	4580	4580	6.6	39.61	
40	400	5920	5920	4270	4270	6.7	35.39	
45	400	5700	5680	3940	3940	7.5	31.30	
48	400	5520	5500	3780	3780	7.5	29.32	
54	400	5170	5180	3470	3470	7.6	25.91	
58	400	4970	4990	3300	3300	7.7	24.06	
64	400	4710	4740	3070	3070	7.7	21.81	
72	400	4440	4480	2820	2820	7.7	19.58	
83	380	4220	4270	2690	2690	7.8	16.86	
88	380	4080	4130	2570	2570	7.9	15.86	
103	360	3890	3940	2450	2450	8	13.65	
115	350	3720	3770	2330	2330	8.3	12.19	
119	280	4060	4050	2770	2770	10.5	11.77	
133	280	3830	3840	2580	2580	10.6	10.56	
154	280	3540	3560	2310	2310	10.7	9.10	
164	270	3500	3520	2310	2310	10.8	8.56	
190	250	3380	3390	2270	2270	11	7.36	
213	240	3270	3270	2190	2190	11.5	6.58	
241	230	3140	3140	2100	2100	11.8	5.81	
302	205	2980	2970	2040	2040	12	4.64	

K57DRS..4BF/BT, n _e =1400 1/min								600 Nm	
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	112M	132S 132M
		K	KF	KA	KAF				
 3									
9.6	600	7630	7720	11500	11500	5.9	145.14*		
11	600	7630	7720	10900	10900	5.9	123.85		
13	600	7630	7720	10200	10200	5.9	108.29		
14	600	7630	7720	9900	9900	5.9	102.88*		
16	600	7630	7720	9260	9260	5.9	90.26*		
18	600	7630	7720	8500	8500	5.9	76.56*		
20	600	7630	7720	8040	8040	6	69.12		
23	600	7630	7720	7490	7490	6	60.81*		

K57DRS..4BF/BT, $n_e=1400$ 1/min

600 Nm

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	112M	132S 132M
		K	KF	KA	KAF				
24	600	7630	7720	7260	7260	6	57.42*		
29	600	7630	7720	6610	6610	6	48.89		
32	600	7630	7720	6240	6240	6.1	44.43		
36	600	7630	7720	5710	5710	6.1	38.49		
39	600	7630	7720	5440	5440	6.8	35.70		
46	600	7300	7460	4880	4880	6.9	30.28		
51	600	6930	7090	4550	4550	6.9	27.34		
58	600	6480	6650	4140	4140	6.9	24.05		
62	600	6280	6460	3970	3970	6.9	22.71		
72	575	5910	6080	3710	3710	7	19.34		
80	555	5740	5910	3610	3610	7.2	17.57		
92	535	5430	5600	3390	3390	7.3	15.22		
106	510	5190	5350	3240	3240	7.4	13.25		
117	415	5150	5400	3470	3470	9.4	11.92		
124	415	4990	5250	3340	3340	9.5	11.26		
146	405	4650	4900	3050	3050	9.6	9.59		
161	390	4520	4760	2980	2980	10	8.71		
185	365	4360	4580	2900	2900	10.2	7.55		
213	345	4180	4400	2800	2800	10.4	6.57		
299	300	3800	3980	2580	2580	11	4.69		

9

K67DRS..4BF/BT, $n_e=1400$ 1/min

820 Nm

n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	112M	132S 132M	132MC
		K	KF	KA	KAF					
 3										
9.7	820	10300	10300	10700	10700	6.2	144.79*			
11	820	10300	10300	9770	9770	6.2	123.54			
13	820	10300	10300	9060	9060	6.1	108.03			
14	820	10300	10300	8800	8800	6.1	102.62			
16	820	10300	10300	8140	8140	6.2	90.04			
18	820	10300	10300	7360	7360	6.2	76.37			
20	820	10300	10300	6900	6900	6.2	68.95			
23	820	10300	10300	6340	6340	6.2	60.66			
24	820	10300	10300	6100	6100	6.2	57.28			
29	820	10300	10300	5440	5440	6.3	48.77			
32	820	10300	10300	5070	5070	6.3	44.32			
36	800	10500	10500	4690	4690	6.4	38.39			
39	820	10300	10300	4260	4260	7.1	35.62			
46	820	10300	10300	3680	3680	7.1	30.22			
51	820	10300	10300	3340	3340	7.1	27.28			
58	800	10500	10500	3090	3090	7.2	24.00			
62	780	10700	10700	3070	3070	7.2	22.66			
73	760	10800	10800	2740	2740	7.3	19.30			
80	740	11000	11000	2630	2630	7.5	17.54			
92	700	11300	11300	2550	2550	7.5	15.19			
106	670	11500	11500	2420	2420	7.6	13.22			
112	530	12300	12300	2710	2710	8.6	12.48			
132	500	11800	12000	2590	2590	8.8	10.63			

K67DRS..4BF/BT, $n_e=1400$ 1/min								820 Nm		
n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	112M	132S 132M	132MC
		K	KF	KA	KAF					
145	480	11500	11700	2550	2550	9.1	9.66			
167	440	11100	11400	2590	2590	9.3	8.37			
192	420	10700	10900	2480	2480	9.4	7.28			
269	350	9860	10000	2450	2450	10	5.20			

K77DRS..4BF/BT, n _e =1400 1/min								1550 Nm			
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	112M	132S 132M	160S	132MC 160M 160MC
		K	KF	KA	KAF						
 3											
7.3	1450	16100	16900	16200	16200	5.4	192.18				
7.8	1450	16100	16900	15600	15600	5.4	179.37				
9.1	1550	15400	16600	13700	13700	5.4	154.02				
10	1550	15400	16600	12700	12700	5.4	135.28				
11	1550	15400	16600	12300	12300	5.4	128.52				
12	1550	15400	16600	11400	11400	5.4	113.56				
14	1550	15400	16600	10300	10300	5.4	97.05				
16	1550	15400	16600	9730	9730	5.4	88.97				
18	1550	15400	16600	8890	8890	5.4	78.07				
19	1550	15400	16600	8550	8550	5.4	73.99				
22	1550	15400	16600	7740	7740	5.5	64.75				
24	1550	15400	16600	7130	7130	5.5	58.34				
27	1550	15400	16600	6390	6390	5.5	51.18				
31	1550	15400	16600	5720	5720	5.5	45.16				
35	1550	15400	16600	5100	5100	5.6	40.04				
36	1500	15700	16800	5210	5210	6	38.39				
40	1550	15400	16600	4460	4460	6	35.20				
45	1550	15400	16600	3840	3840	6.1	30.89				
48	1550	15400	16600	3590	3590	6.1	29.27				
55	1550	15400	16600	2990	2990	6.1	25.62				
61	1550	15400	16600	2550	2550	6.3	23.08				
69	1500	15700	16800	2330	2330	6.3	20.25				
78	1450	16100	16900	2160	2160	6.3	17.87				
88	1400	15500	16600	2030	2030	6.4	15.84				
104	1340	14800	15800	1850	1850	6.5	13.52				
113	1000	15100	16000	2820	2820	7.9	12.36				
129	990	14400	15200	2460	2460	7.8	10.84				
146	940	13900	14700	2430	2430	7.9	9.56				
165	890	13500	14300	2430	2430	8.2	8.48				
193	820	13100	13800	2490	2490	8.3	7.24				

K87DRS..4BF/BT, n _e =1400 1/min										2700 Nm			
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		K	KF	KA	KAF								
 3													
7.1	2700	27300	26300	25400	25400	5.3	197.37						
8.0	2700	27300	26300	23700	23700	5.3	174.19						
8.5	2700	27300	26300	23000	23000	5.3	164.34*						

K87DRS..4BF/BT, $n_e=1400$ 1/min**2700 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		K	KF	KA	KAF								
9.5	2700	27300	26300	21600	21600	5.4	147.32*						
11	2700	27300	26300	19900	19900	5.4	126.91*						
12	2700	27300	26300	18800	18800	5.4	115.82						
14	2700	27300	26300	17500	17500	5.4	102.71*						
16	2700	27300	26300	15700	15700	5.4	86.34						
18	2700	27300	26300	14800	14800	5.4	79.34						
20	2700	27300	26300	13700	13700	5.4	70.46						
22	2700	26200	26300	12600	12600	5.4	63.00*						
25	2700	25000	26300	11600	11600	5.5	56.64						
28	2700	23500	26300	10400	10400	5.5	49.16						
32	2600	22800	26000	10100	10100	5.5	44.02						
38	2500	21400	24500	9140	9140	5.5	36.52*						
45	2700	19200	22100	6900	6900	6.1	31.39						
50	2600	18500	21400	6600	6600	6.1	27.88						
56	2500	18000	20700	6390	6390	6.1	24.92						
62	2300	17900	20600	6790	6790	6.2	22.41						
72	2300	16800	19300	5890	5890	6.3	19.45						
80	2200	16300	18800	5770	5770	6.3	17.42						
88	1800	16000	18500	5810	5810	6.5	16.00						
97	2100	15300	17700	5240	5240	6.4	14.45						
111	2000	14800	17000	5030	5030	6.5	12.56						
125	1500	14900	17100	5770	5770	6.7	11.17						
140	1500	14200	16400	5210	5210	6.8	10.00						
169	1400	13500	15600	4960	4960	7	8.29						
194	1300	13200	15100	4970	4970	7.1	7.21						

K97DRS..4BF/BT, $n_e=1400$ 1/min**4300 Nm**

n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		K	KF	KA	KAF								
🔑 3													
8.0	4300	40000	38700	40000	40000	6.8	176.05*						
9.1	4300	40000	38700	40000	40000	6.8	153.21*						
10.0	4300	40000	38700	40000	40000	6.8	140.28						
11	4300	40000	38700	39500	39500	6.8	123.93*						
13	4300	40000	38700	36300	36300	6.8	105.13						
14	4300	40000	38700	34700	34700	6.8	96.80						
16	4300	38800	38700	32700	32700	6.8	86.52						
18	4300	37100	38700	30900	30900	6.8	77.89*						
20	4300	35600	38700	29200	29200	6.9	70.54						
22	4300	33800	37800	27300	27300	6.9	62.55						
25	4300	32300	36300	25700	25700	6.9	56.55						
29	4300	30000	33800	23300	23300	6.9	47.93*						
33	4300	28300	31900	21300	21300	6.9	41.87						
37	4300	27100	30700	20100	20100	7.4	38.30						
41	4300	25700	29200	18600	18600	7.5	34.23						
45	4300	24500	27800	17300	17300	7.5	30.82						
50	4300	23300	26600	16100	16100	7.5	27.91						
57	4300	22000	25200	14700	14700	7.6	24.75						
63	4300	20900	24000	13500	13500	7.6	22.37						

K97DRS..4BF/BT, n _e =1400 1/min											4300 Nm			
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC	
		K	KF	KA	KAF									
74	4300	19100	22100	11700	11700	7.6	18.96							
85	4300	17800	20700	10300	10300	7.7	16.56							
101	4300	16100	18900	8520	8520	7.7	13.85							
117	3890	16200	18800	9100	9100	7.8	11.99							
134	2870	16400	19000	10300	10300	9.7	10.41							
161	2660	15800	18200	9930	9930	9.8	8.71							
186	2400	15700	18100	10200	10200	10	7.54							

K107DRS..4BF/BT, n _e =1400 1/min											8000 Nm		
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(R) °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		K	KF	KA	KAF								
 3													
9.8	8000	65000	65000	39600	65000	5.7	143.47*						
12	8000	61500	65000	35700	65000	5.7	121.46						
12	8000	59300	65000	34000	65000	5.8	112.41*						
14	8000	56200	64700	31700	65000	5.8	100.75						
15	8000	53500	61600	29600	65000	5.8	90.96*						
17	8000	50900	58700	27700	65000	5.8	82.61						
19	8000	47900	55300	25400	65000	5.8	73.30						
21	8000	45400	52500	23600	65000	5.8	66.52*						
24	8000	41700	48400	20900	65000	5.8	57.17*						
28	7840	39300	45600	19200	65000	5.8	49.90						
33	7360	37900	44000	18400	65000	5.8	42.33*						
38	7200	35800	41500	17000	65000	5.8	37.00*						
43	7200	33200	38600	15100	65000	6.4	32.69						
45	6800	34200	39700	16100	65000	5.9	31.28*						
48	7200	30700	35800	13400	65000	6.5	29.00						
53	7200	28800	33600	12100	65000	6.4	26.32						
62	7200	25800	30300	10100	61200	6.5	22.62						
71	7200	23200	27300	8440	57700	6.5	19.74						
84	7050	21000	24800	7080	54200	6.5	16.75						
96	6890	19500	23000	6180	51700	6.6	14.64						
104	4300	29200	34200	12600	56500	8.8	13.43						
119	4300	27500	32300	11100	53500	8.8	11.73						
141	4190	25800	30500	10000	50500	8.9	9.94						
161	4070	24600	29100	9270	48300	9	8.69						
190	3600	24400	28500	9900	47100	9	7.35						

K127DRS..4BF/BT, n _e =1400 1/min											13000 Nm		
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		K	KF	KA	KAF								
 3													
9.6	13000	79200	80900	37900	90000	5.2	146.07						
10	13000	79200	80900	36000	90000	5.2	136.14						
11	13000	79200	80900	33200	90000	5.2	122.48						
13	13000	79200	80900	30500	90000	5.2	110.18						
16	13000	75100	80900	25600	90000	5.2	89.89						

K127DRS..4BF/BT, $n_e=1400$ 1/min**13000 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		K	KF	KA	KAF								
17	13000	72100	80900	23400	90000	5.3	81.98						
20	13000	67700	79500	20300	90000	5.3	70.95*						
22	13000	64000	75500	17600	90000	5.3	62.60						
26	13000	59800	70900	14700	90000	5.3	54.07						
29	13000	56500	67300	12300	90000	5.3	47.82						
35	13000	52000	62400	9090	90000	5.3	40.19						
39	13000	49400	59600	7280	86300	5.6	36.25						
45	13000	45900	55800	4840	80900	5.6	31.37						
51	13000	43000	52600	2830	76300	5.7	27.68						
59	13000	39800	47900	575	71300	5.7	23.91						
66	13000	37200	44000	39	67200	5.7	21.15						
79	13000	32600	38600	39	61600	5.8	17.77						
98	12100	31000	36700	35	58100	5.8	14.35						
109	8530	35400	42900	3080	62100	8	12.79						
130	8000	33900	41000	3100	59300	8.1	10.74						
161	7230	32500	39100	3750	56600	8.1	8.68						

K157DRS..4BF/BT, $n_e=1400$ 1/min**18000 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	160S	160M 160MC 180S	180M 180L	180LC
		K	KF	KA	KAF						
9.3	18000	112200	108200	120000	120000	5.2	150.41				
11	18000	106500	108200	120000	120000	5.2	122.39				
14	18000	98000	108200	120000	120000	5.2	100.22				
15	18000	94400	105100	117100	117100	5.2	91.65				
18	18000	88900	99300	110300	110300	5.2	79.75				
20	18000	84200	94400	104400	104400	5.2	70.38				
23	18000	79000	89000	97900	97900	5.2	61.02				
26	18000	74900	84700	92700	92700	5.2	54.29				
30	18000	70000	79500	86500	86500	5.2	46.79				
37	18000	63400	72500	78200	78200	5.3	38.02				
45	18000	57500	66400	70900	70900	5.6	31.30				
51	18000	54000	62700	66400	66400	5.6	27.62				
58	18000	50000	58600	61500	61500	5.6	23.95				
66	18000	47000	55400	57700	57700	5.6	21.31				
76	18000	43200	51400	52900	52900	5.7	18.37				
94	18000	38200	46200	46700	46700	5.8	14.92				
111	17000	36600	44200	44800	44800	5.8	12.65				

K167DRS..4BF/BT, $n_e=1400$ 1/min**32000 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ °	i	160S	160M 160MC 180S	180M 180L	180LC
8.5	32000	150000	4.5	164.50				
10	32000	150000	4.5	134.99				
13	32000	150000	4.5	109.83				
16	32000	147200	4.5	87.86				

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K167DRS..4BF/BT, $n_e=1400$ 1/min						32000 Nm	
n_a rpm	M_{amax} Nm	F_{Ra} N K	$\Phi_{(R)}$ °	i	160S	160M 160MC 180S	180M 180L 180LC
18	32000	140100	4.5	78.14			
21	32000	132000	4.5	68.07			
23	32000	125600	4.5	60.74			
27	32000	117000	4.6	51.77			
33	32000	107400	4.6	42.89			
38	32000	99700	4.6	36.61			
43	32000	93700	4.8	32.25			
49	32000	88600	4.8	28.77			
57	32000	81700	4.9	24.52			
69	32000	74000	4.9	20.32			
81	32000	67900	5	17.34			

K187DRS..4BF/BT, $n_e=1400$ 1/min						50000 Nm	
n_a rpm	M_{amax} Nm	F_{Ra} N K	$\Phi_{(R)}$ °	i	160S	160M 160MC 180S	180M 180L 180LC
 3							
7.8	50000	190000	3.8	179.86			
8.5	50000	190000	3.8	165.21			
9.7	50000	186200	3.8	144.59			
11	50000	177700	3.8	129.69			
12	50000	167100	3.8	112.60			
14	50000	160100	3.8	102.16			
16	50000	149700	3.8	88.00			
19	50000	138100	3.8	73.96			
22	50000	129000	3.8	64.04			
26	50000	118100	3.9	53.36			
31	50000	108900	3.9	45.50*			
33	50000	105200	4.1	42.51			
36	50000	99900	4.1	38.57			
42	50000	92200	4.2	33.23			
50	50000	83500	4.2	27.92			
58	47600	80500	4.2	24.18			
69	43900	78000	4.3	20.15			
81	41400	75000	4.3	17.18			

9.1.4 Geometrisch mögliche Kombinationen S..DRS.. mit BF.. oder BT..

S67DRS..4BF/BT, n _e =1400 1/min									520 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) '	i	112M	132S 132M
		S	SF	SA	SAF				
 2									
6.4	520	8680	8680	12000	12000	-	217.41		
7.4	520	8680	8680	12000	12000	-	190.11		
7.8	520	8680	8680	12000	12000	-	180.60*		
8.8	520	8680	8680	12000	12000	-	158.45		
10	520	8680	8680	12000	12000	-	134.40*		
12	520	8680	8680	12000	12000	-	121.33		
13	520	8680	8680	12000	12000	-	106.75*		
14	520	8680	8680	12000	12000	-	100.80*		
16	520	8680	8680	11600	11600	-	85.83		
18	520	8680	8680	11100	11100	-	78.00*		
19	480	9020	9020	10700	10700	-	75.06		
21	520	8680	8680	10400	10400	-	67.57		
21	480	9020	9020	10100	10100	-	65.63		
22	480	9020	9020	9850	9850	-	62.35*		
24	500	8850	8850	9920	9920	-	58.80*		
26	480	8670	9020	9280	9280	-	54.70		
30	480	8060	9020	8600	8600	-	46.40*		
33	480	7690	8740	8200	8200	-	41.89		
38	480	7250	8280	7710	7710	-	36.85		
40	480	7060	8080	7490	7490	-	34.80*		
47	480	6540	7540	6920	6920	-	29.63		
52	480	6240	7240	6590	6590	-	26.93		
57	340	6040	6900	6270	6270	-	24.44		
60	480	5810	6800	6120	6120	-	23.33		
60	340	5890	6740	6110	6110	-	23.22*		
69	340	5520	6360	5700	5700	-	20.37		
69	425	5760	6650	6090	6090	-	20.30*		
81	340	5080	5910	4990	4990	-	17.28*		
90	340	4820	5640	4480	4480	-	15.60*		
102	340	4510	5310	3870	3870	-	13.73*		
108	340	4310	5110	3610	3610	-	12.96*		
127	340	3660	4430	2890	2890	-	11.03		
140	340	3290	4050	2480	2480	-	10.03		
161	335	2860	3590	2020	2020	-	8.69		
185	295	3220	3890	2540	2540	-	7.56*		

S77DRS..4BF/BT, n _e =1400 1/min								1270 Nm			
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) '	i	112M	132S 132M	160S	132MC 160M 160MC
		S	SF	SA	SAF						
 2											
5.5	1270	11700	11700	16000	16000	-	256.47				
6.2	1270	11700	11700	16000	16000	-	225.26				
6.5	1270	11700	11700	16000	16000	-	214.00*				
7.4	1270	11700	11700	16000	16000	-	189.09				
8.7	1260	11800	11800	16000	16000	-	161.60*				
9.4	1240	12000	12000	16000	16000	-	148.15				

S77DRS..4BF/BT, n _e =1400 1/min											1270 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(R) °	i	112M	132S 132M	160S	132MC 160M 160MC
		S	SF	SA	SAF						
11	1210	12200	12200	16000	16000	-	130.00*				
11	1200	12300	12300	16000	16000	-	123.20*				
13	1170	12600	12600	16000	16000	-	107.83				
14	1140	12800	12800	16000	16000	-	97.14				
16	1100	13100	13100	16000	16000	-	85.22				
19	1070	12800	13300	16000	16000	-	75.20*				
19	1100	11900	13100	16000	16000	-	75.09				
20	1100	11600	13100	16000	16000	-	71.33				
21	1040	12300	13500	16000	16000	-	66.67				
22	1100	10900	12800	15100	15100	-	63.03				
25	990	11600	13300	16000	16000	-	56.92				
26	1100	10100	11900	14000	14000	-	53.87				
28	1100	9650	11500	13400	13400	-	49.38				
32	1100	9010	10800	12600	12600	-	43.33				
34	1100	8750	10500	12200	12200	-	41.07				
39	1100	8140	9840	11400	11400	-	35.94				
43	1090	7720	9390	10900	10900	-	32.38				
49	1050	7370	8960	10400	10400	-	28.41				
56	1020	7010	8550	9870	9870	-	25.07				
61	705	5960	7420	8570	8570	-	22.89				
63	980	6740	8210	9490	9490	-	22.22				
67	705	5380	6800	7790	7790	-	20.99				
74	930	6390	7800	9010	9010	-	18.97				
76	705	4550	5910	6670	6670	-	18.42				
80	710	4120	5460	6110	6110	-	17.45				
92	710	3320	4600	5030	5030	-	15.28				
102	710	2710	3950	4220	4220	-	13.76				
116	720	1800	2990	3010	3010	-	12.07				
131	720	1130	2280	2110	2110	-	10.65				
148	725	415	1030	1170	1170	-	9.44				
174	680	440	1140	1160	1160	-	8.06				

S87DRS..4BF/BT, n _e =1400 1/min											2280 Nm		
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		S	SF	SA	SAF								
 2													
4.9	2280	27900	26700	30000	30000	-	288.00*						
5.4	2280	27900	26700	30000	30000	-	258.18						
6.3	2280	27900	26700	30000	30000	-	222.40*						
6.9	2260	28000	26800	28900	28900	-	202.96						
7.8	2210	28100	26900	27600	27600	-	180.00*						
9.3	2150	28200	27000	25800	25800	-	151.30						
10	2100	28300	27100	25000	25000	-	139.05						
11	2060	28300	27100	23900	23900	-	123.48						
13	2000	28400	27200	22900	22900	-	110.40*						
14	1960	28500	27300	22000	22000	-	99.26						
15	1510	29100	27900	21800	21800	-	91.20*						
16	1880	28600	27400	20900	20900	-	86.15						
17	1600	29000	27800	20300	20300	-	81.76						

S87DRS..4BF/BT, $n_e=1400$ 1/min**2280 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		S	SF	SA	SAF								
18	1820	28700	27500	20200	20200	-	77.14						
20	1600	29000	27800	19000	19000	-	70.43						
22	1600	29000	27800	18100	18100	-	64.27						
22	1700	28900	27700	19000	19000	-	64.00*						
25	1600	29000	27800	17100	17100	-	57.00*						
29	1600	29000	27800	15700	15700	-	47.91						
32	1600	29000	27800	15000	15000	-	44.03						
36	1600	28200	27800	14200	14200	-	39.10						
40	1600	27100	27800	13300	13300	-	34.96*						
45	1600	26000	27500	12600	12600	-	31.43						
51	1600	24700	26200	11600	11600	-	27.28						
55	1240	23400	24600	6970	6970	-	25.50*						
57	1600	23700	25200	10900	10900	-	24.43						
65	1240	21800	23100	5090	5090	-	21.43						
69	1600	22100	23500	9800	9800	-	20.27						
71	1240	21100	22400	4210	4210	-	19.70						
80	1240	20200	21400	3020	3020	-	17.49						
90	1240	19300	20300	1940	1940	-	15.64*						
100	1240	18500	19000	940	940	-	14.06						
115	1240	17400	17400	-	-	-	12.21						
128	1240	16400	16200	-	-	-	10.93						
154	1140	15900	15900	-	-	-	9.07						
178	1010	15700	16700	450	450	-	7.88						

S97DRS..4BF/BT, $n_e=1400$ 1/min**4000 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		S	SF	SA	SAF								
 2													
4.9	4000	33200	33200	40000	40000	-	286.40*						
5.3	4000	33200	33200	40000	40000	-	262.22						
6.0	4000	33200	33200	40000	40000	-	231.67						
7.1	4000	33200	33200	40000	40000	-	196.52						
7.7	3920	33400	33400	39300	39300	-	180.95						
8.7	3840	33500	33500	37700	37700	-	161.74						
9.6	3730	33700	33700	36300	36300	-	145.60*						
11	3650	33900	33900	35000	35000	-	131.85						
12	3510	34100	34100	33600	33600	-	116.92						
13	3440	34300	34300	32300	32300	-	105.71						
16	3240	34600	34600	30700	30700	-	89.60*						
17	3230	34600	34600	27000	27000	-	80.85						
18	3080	34800	34800	29400	29400	-	78.26						
20	3300	34500	34500	25100	25100	-	71.43						
21	2900	35100	35100	27700	27700	-	65.45						
23	3300	34500	34500	23000	23000	-	60.59						
25	3300	34500	34500	22000	22000	-	55.79						
28	3300	34500	34500	20700	20700	-	49.87						
31	3300	34100	34500	19600	19600	-	44.89						
34	3300	32800	34500	18500	18500	-	40.65						
39	3300	31300	34500	17300	17300	-	36.05						

S97DRS..4BF/BT, $n_e=1400$ 1/min										4000 Nm			
n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	112M	132S 132M	160S	132MC 160M 160MC 180S	180M 180L	180LC
		S	SF	SA	SAF								
43	3200	30400	34600	16700	16700	-	32.60						
51	3010	29000	33000	15800	15800	-	27.63						
53	2600	26100	30300	4510	4510	-	26.39						
58	2870	28000	31800	15200	15200	-	24.13						
59	2600	24500	28200	2740	2740	-	23.59						
66	2600	22800	26300	1140	1140	-	21.23						
73	2600	21200	24500	-	-	-	19.23						
82	2570	19700	22800	-	-	-	17.05						
91	2470	19400	22500	-	-	-	15.42						
107	2330	18800	21800	-	-	-	13.07						
123	2210	18400	21300	-	-	-	11.41						
147	2040	18200	21000	-	-	-	9.55						
169	1770	18800	21700	1420	1420	-	8.26						

9.2 Getriebemotoren DRL.. mit BF

9.2.1 Geometrisch mögliche Kombinationen R..DRL..BF..

RX57DRL..BF, n _e =1400 1/min						69 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) '	i	132S-D1
		RX	RXF			
 1						
255	39	3100	3100	-	5.50*	
276	36	3030	3030	-	5.07	
322	68	2640	2640	-	4.35	
369	69	2480	2480	-	3.79	
394	69	2420	2420	-	3.55*	
446	65	2320	2320	-	3.14	
481	67	2170	2170	-	2.91	
530	69	1810	1810	-	2.64*	
591	69	1500	1500	-	2.37	
686	69	1070	1070	-	2.04	
729	69	880	880	-	1.92*	
848	69	430	430	-	1.65	
946	68	112	112	-	1.48	
1075	63	132	132	-	1.30	

RX67DRL..BF, n _e =1400 1/min						134 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N		φ _(/R) °	i	132S-D1
		RX	RXF			
 1						
231	43	4000	4000	-	6.07	
270	75	3580	3580	-	5.18	
309	82	3350	3350	-	4.53	
326	80	3300	3300	-	4.30*	
371	87	3090	3090	-	3.77	
438	100	2800	2800	-	3.20*	
484	106	2640	2640	-	2.89	
551	118	2000	2000	-	2.54	
583	123	1530	1530	-	2.40*	
686	134	230	230	-	2.04	
753	126	225	225	-	1.86	
870	114	245	245	-	1.61	
1000	104	205	205	-	1.40*	

RX77DRL..BF, n _e =1400 1/min							215 Nm	
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) °	i		132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2
		RX	RXF			132S-D1		
 1								
175	57	6330	6330	-	8.00*			
187	53	6200	6200	-	7.47			
218	103	5600	5600	-	6.41			
249	110	5300	5300	-	5.63			
262	103	5240	5240	-	5.35*			

RX77DRL..BF, $n_e=1400$ 1/min						215 Nm		
n_a rpm	M_{amax} Nm	F_{Ra} N		$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2
		RX	RXF					
296	123	4890	4890	-	4.73			
347	143	4490	4490	-	4.04*			
378	153	4280	4280	-	3.70			
431	182	3140	3140	-	3.25*			
455	193	2490	2490	-	3.08*			
519	215	1030	1030	-	2.70			
576	215	425	425	-	2.43			
657	200	360	360	-	2.13			
745	187	255	255	-	1.88*			
838	173	240	240	-	1.67			
986	155	240	240	-	1.42			

RX87DRL..BF, $n_e=1400$ 1/min						405 Nm			
n_a rpm	M_{amax} Nm	F_{Ra} N		$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1
		RX	RXF						
162	139	7890	7890	-	8.65				
183	149	7500	7500	-	7.63				
194	140	7380	7380	-	7.20*				
217	192	6860	6860	-	6.45				
252	225	6330	6330	-	5.56*				
276	250	5990	5990	-	5.07				
311	290	5520	5520	-	4.50*				
370	305	5050	5050	-	3.78				
402	405	2810	2810	-	3.48				
453	405	2030	2030	-	3.09				
507	405	1200	1200	-	2.76*				
565	405	470	470	-	2.48				
651	385	42	42	-	2.15				
725	355	185	185	-	1.93				
875	315	74	74	-	1.60*				
1005	290	74	74	-	1.39				

RX97DRL..BF, $n_e=1400$ 1/min						595 Nm			
n_a rpm	M_{amax} Nm	F_{Ra} N		$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1
		RX	RXF						
170	225	9570	9570	-	8.23				
196	260	8960	8960	-	7.16*				
213	300	8510	8510	-	6.56				
242	420	7650	7650	-	5.79				
285	395	7240	7240	-	4.91				
310	595	6210	6210	-	4.52				
347	595	5450	5450	-	4.04				

RX97DRL..BF, $n_e=1400$ 1/min**595 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N		$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1
		RX	RXF						
385	595	4610	4610	-	3.64*				
424	595	3820	3820	-	3.30				
479	595	2890	2890	-	2.92				
530	595	2020	2020	-	2.64				
625	595	545	545	-	2.24*				
714	570	19	19	-	1.96				
854	505	51	51	-	1.64				
986	455	132	132	-	1.42				

RX107DRL..BF, $n_e=1400$ 1/min**830 Nm**

n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) °	i	132S-D1	132S-D2	132MC-D2	180S-D2	180LC-D2
		RX	RXF				132MC-D1	160M-D2	160MC-D2	
							160M-D1	180S-D1		
							160MC-D1	180M-D1	180LC-D1	
 1										
211	460	9660	9660	-	6.63*					
250	455	9040	9040	-	5.61					
270	695	7780	7780	-	5.19					
301	695	7380	7380	-	4.65					
333	830	6140	6140	-	4.20*					
367	830	5260	5260	-	3.81					
414	830	4190	4190	-	3.38					
456	830	3300	3300	-	3.07					
530	830	1850	1850	-	2.64*					
609	830	760	760	-	2.30					
718	765	420	420	-	1.95					
819	705	345	345	-	1.71					
972	645	315	315	-	1.44					

R47DRL..BF, $n_e=1400$ 1/min**300 Nm**

n _a rpm	M _{amax} Nm	F _{Ra} N		φ _(/R) °	i	132S-D1
		R	RF			
 3						
7.9	300	5420	5420	6.9	176.88	
8.6	300	5420	5420	6.9	162.94	
10	300	5420	5420	6.9	139.99	
11	300	5420	5420	6.9	121.87	
12	300	5420	5420	6.9	114.17	
14	300	5420	5420	7	100.86	
15	300	5420	5420	7	93.68	
16	300	5420	5420	7	84.90	
18	300	5420	5420	7	76.23	
20	300	5420	5420	7.6	68.54	
22	300	5420	5420	7.6	64.21	
25	300	5420	5420	7.6	56.73	
27	300	5350	5350	7.6	52.69	

R47DRL..BF, $n_e=1400$ 1/min						300 Nm
n_a rpm	M_{amax} Nm	F_{Ra} N		$\Phi_{(R)}$ °	i	132S-D1
		R	RF			
29	300	5140	5140	7.7	47.75	
33	300	4930	4930	7.7	42.87	
38	300	4630	4630	7.7	36.93	
40	300	4520	4520	7.7	34.73	
47	300	4240	4240	7.8	29.88	
52	300	4050	4050	7.9	26.70	
59	300	3840	3840	8	23.59	
 2						
41	240	4680	4680	6.5	33.79	
45	220	4610	4610	6.5	31.12	
52	300	4050	4050	6.6	26.74	
60	300	3820	3820	6.6	23.28	
64	300	3710	3710	6.7	21.81	
73	295	3530	3530	6.8	19.27	
78	290	3390	3390	6.8	17.89	
86	275	3350	3350	6.9	16.22	
96	265	3230	3230	7	14.56	
112	250	3080	3080	7.1	12.54	
119	245	3020	3020	7.1	11.79	
138	230	2880	2880	7.3	10.15	
154	220	2780	2780	7.7	9.07	
175	205	2690	2690	7.8	8.01	
180	163	2720	2720	9.5	7.76*	
201	159	2620	2620	9.7	6.96	
233	156	2470	2470	9.9	6.00	
248	155	2410	2410	10	5.64*	
289	150	2280	2280	10.3	4.85	
323	146	2190	2190	11.1	4.34	
366	144	2080	2080	11.4	3.83	

R57DRL..BF, n _e =1400 1/min						450 Nm	
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) °	i	132S-D1 132S-D2 132MC-D1	
		R	RF				
 3							
7.5	450	7100	7100	6.9	186.89		
8.1	450	7100	7100	6.9	172.17		
9.5	450	7100	7100	6.9	147.92		
11	450	7100	7100	6.9	128.77		
12	450	7100	7100	6.9	120.63		
13	450	7100	7100	7	106.58		
14	450	7100	7100	7	98.99		
16	450	7100	7100	7	89.71		
17	450	7100	7100	7	80.55		
20	450	7100	7100	7.5	69.23		
22	450	6980	6980	7.5	64.85		
24	450	6630	6630	7.6	57.29		
26	450	6430	6430	7.6	53.22		
29	450	6170	6170	7.6	48.23		
32	450	5900	5900	7.6	43.30		

R57DRL..BF, $n_e=1400$ 1/min**450 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N		$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1
		R	RF				
38	450	5530	5530	7.6	37.30*		
40	450	5390	5390	7.7	35.07		
46	450	5040	5040	7.7	30.18		
52	450	4800	4800	7.8	26.97		
 2							
53	450	4750	4750	6.4	26.31		
56	450	4640	4640	6.5	24.99*		
64	450	4370	4370	6.6	21.93		
75	450	4050	4050	6.7	18.60*		
83	450	3860	3860	6.7	16.79		
95	435	3690	3690	6.8	14.77*		
100	430	3610	3610	6.8	13.95*		
118	405	3430	3430	6.9	11.88		
130	390	3330	3330	7.2	10.79		
150	370	3180	3180	7.4	9.35		
155	375	2010	2010	8.7	9.06		
176	355	2020	2020	8.8	7.97		
186	350	1950	1950	8.8	7.53		
218	335	1770	1770	9	6.41		
241	320	1820	1820	9.6	5.82		
277	305	1730	1730	9.9	5.05		
319	280	1900	1900	10.1	4.39		

R67DRL..BF, $n_e=1400$ 1/min**600 Nm**

n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(R) °	i	132S-D1	132S-D2 132MC-D1
		R	RF				
3							
7.0	600	7560	7560	6.4	199.81		
7.6	600	7560	7560	6.4	184.07		
8.9	600	7560	7560	6.4	158.14		
10	600	7560	7560	6.4	137.67		
11	600	7560	7560	6.4	128.97		
12	600	7560	7560	6.5	113.94		
13	600	7560	7560	6.5	105.83		
15	600	7560	7560	6.5	95.91		
16	600	7560	7560	6.5	86.11		
19	600	7560	7560	6.5	74.17		
20	600	7560	7560	6.5	69.75		
23	600	7560	7560	7	61.26		
25	600	7560	7560	7	56.89		
27	600	7560	7560	7.1	51.56		
30	600	7560	7560	7.1	46.29		
35	580	7790	7790	7.1	39.88*		
37	570	7900	7900	7.1	37.50		
43	540	8210	8210	7.2	32.27		
49	520	8400	8400	7.3	28.83		
2							
50	540	8210	8210	6	28.13		

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R67DRL..BF, $n_e=1400$ 1/min						600 Nm	
n_a rpm	M_{amax} Nm	F_{Ra} N		$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1
		R	RF				
52	540	8210	8210	6	26.72		
60	560	8010	8010	6.1	23.44		
70	600	7560	7560	6.2	19.89		
78	590	7330	7330	6.2	17.95		
89	560	7130	7130	6.3	15.79		
94	550	6980	6980	6.3	14.91		
110	520	6640	6640	6.4	12.70		
121	500	6500	6500	6.7	11.54		
140	470	6220	6220	6.8	10.00		
161	440	5960	5960	7	8.70*		
180	380	5830	5830	8.3	7.79		
190	370	5790	5790	8.3	7.36*		
223	330	5590	5590	8.5	6.27		
246	310	5450	5450	9.1	5.70		
284	290	5210	5210	9.4	4.93		
326	270	5000	5000	9.7	4.29		

R77DRL..BF, n _e =1400 1/min						820 Nm		
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(R) °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2
		R	RF					
 3								
7.2	820	9920	9920	6.4	195.24*			
8.4	820	9920	9920	6.5	166.59			
9.6	820	9920	9920	6.4	145.67			
10	820	9920	9920	6.4	138.39			
12	820	9920	9920	6.5	121.42			
14	820	9920	9920	6.5	102.99			
15	820	9920	9920	6.5	92.97			
17	820	9920	9920	6.5	81.80			
18	820	9920	9920	6.5	77.24			
21	820	9920	9920	6.5	65.77			
24	820	9920	9920	7.1	57.68			
27	820	9920	9920	7.1	52.07			
31	820	9920	9920	7.1	45.81			
32	820	9920	9920	7.1	43.26			
38	820	9920	9920	7.1	36.83			
42	820	9920	9920	7.2	33.47			
48	820	9920	9920	7.3	29.00			
55	780	10100	10100	7.3	25.23			
 2								
60	820	8870	8870	6.1	23.37			
65	820	8250	8250	6.1	21.43			
74	780	7980	7980	6.1	18.80			
79	780	7620	7620	6.2	17.82*			
90	740	7390	7390	6.2	15.60			
100	720	7050	7050	6.5	14.05			
114	690	6740	6740	6.4	12.33			
129	660	6490	6490	6.5	10.88			

R77DRL..BF, $n_e=1400$ 1/min**820 Nm**

n_a rpm	M_{amax} Nm	F_{Ra}		$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2
		R	RF					
145	630	6300	6300	6.7	9.64			
163	630	4110	4110	7.5	8.59			
181	610	3940	3940	7.9	7.74			
206	580	3850	3850	7.8	6.79			
234	540	3990	3990	8	5.99*			
264	510	3990	3990	8.4	5.31*			

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R87DRL..BF, $n_e=1400$ 1/min**1550 Nm**

n _a rpm	M _{amax} Nm	F _{Ra}		Φ _(/R) '	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1
		R	RF						
 3									
5.7	1550	16900	16900	6	246.54				
6.5	1550	16900	16900	6	216.54				
6.8	1550	16900	16900	6	205.71				
7.7	1550	16900	16900	6	181.77				
9.0	1550	16900	16900	6	155.34				
9.8	1550	16900	16900	6	142.41				
11	1550	16900	16900	6	124.97				
12	1550	16900	16900	6	118.43*				
14	1550	16900	16900	6	103.65				
15	1550	16900	16900	6	93.38				
17	1550	16900	16900	6	81.92				
19	1550	16900	16900	6.4	72.57				
22	1550	15800	15800	6.4	63.68*				
23	1550	15200	15200	6.4	60.35*				
27	1550	13500	13500	6.5	52.82				
29	1550	12300	12300	6.5	47.58				
34	1550	10800	10800	6.5	41.74				
38	1550	9470	9470	6.5	36.84*				
43	1550	8220	8220	6.6	32.66*				
50	1500	7370	7370	6.6	27.88				
 2									
41	1500	9480	9480	5.5	34.40*				
45	1550	7820	7820	5.5	31.40				
50	1550	6640	6640	5.5	27.84*				
60	1550	5000	5000	5.5	23.40				
65	1500	4970	4970	5.7	21.51				
73	1440	4800	4800	5.7	19.10				
82	1390	4580	4580	5.8	17.08*				
91	1340	4450	4450	5.9	15.35				
105	1280	4220	4220	6	13.33				
117	1230	4120	4120	6	11.93				
141	1180	3520	3520	6.1	9.90*				
153	1210	99	99	6.3	9.14*				
170	1160	225	225	6.6	8.22				

R87DRL..BF, $n_e=1400$ 1/min						1550 Nm			
n_a rpm	M_{amax} Nm	F_{Ra} N		$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1
		R	RF						
196	1070	820	820	6.7	7.13				
219	1020	970	970	6.8	6.39				
264	910	1710	1710	7	5.30*				

R97DRL..BF, n _e =1400 1/min						3000 Nm			
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(R) °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1
		R	RF						
 3									
4.8	3000	19800	19800	5.7	289.74				
5.5	3000	19800	19800	5.7	255.71				
5.8	3000	19800	19800	5.7	241.25				
6.5	3000	19800	19800	5.7	216.28				
7.5	3000	19800	19800	5.7	186.30				
8.2	3000	19800	19800	5.7	170.02				
9.3	3000	19800	19800	5.7	150.78				
11	3000	19800	19800	5.7	126.75				
12	3000	19800	19800	5.7	116.48				
14	3000	19800	19800	5.7	103.44				
15	3000	19800	19800	5.7	92.48				
17	3000	19800	19800	5.8	83.15				
19	3000	18000	18000	5.8	72.17				
21	3000	16300	16300	6.1	65.21				
23	3000	14800	14800	6.2	59.92				
26	3000	12900	12900	6.2	53.21				
29	3000	11100	11100	6.2	47.58				
33	3000	9480	9480	6.2	42.78				
38	3000	7410	7410	6.3	37.13				
42	2890	7160	7160	6.3	33.25				
51	2670	7260	7260	6.3	27.58				
 2									
44	2560	10600	10600	5.3	32.05				
51	2560	8380	8380	5.3	27.19				
56	2830	4140	4140	5.4	25.03				
63	2720	4060	4060	5.5	22.37				
70	2610	4110	4110	5.5	20.14				
77	2500	4270	4270	5.6	18.24				
87	2400	4130	4130	5.6	16.17				
96	2300	4240	4240	5.6	14.62				
113	2190	3850	3850	5.7	12.39				
129	2090	3720	3720	5.8	10.83				
151	2030	-	-	5.6	9.29				
167	2030	-	-	5.7	8.39				
197	2000	-	-	5.8	7.12				
225	1890	-	-	5.9	6.21				

R97DRL..BF, $n_e=1400$ 1/min						3000 Nm			
n_a rpm	M_{amax} Nm	F_{Ra}		$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1
		R	RF						
269	1780	-	-	6.1	5.20				
311	1630	-	-	6.2	4.50*				

R107DRL..BF, $n_e=1400$ 1/min						4300 Nm			
n_a rpm	M_{amax} Nm	F_{Ra}		$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1
		R	RF						

 3									
5.6	4300	29500	29500	7	251.15				
6.1	4300	29500	29500	7	229.95				
6.9	4300	29500	29500	7	203.16				
8.1	4300	29500	29500	7	172.34				
8.8	4300	29500	29500	7	158.68				
9.9	4300	29500	29500	7	141.83				
11	4300	29500	29500	7	127.68				
12	4300	29500	29500	7	115.63				
14	4300	29500	29500	7	102.53				
15	4300	29500	29500	7	92.70				
18	4300	29500	29500	7.1	78.57				
19	4300	29500	29500	7.3	72.88				
21	4300	29200	29200	7.3	65.60*				
24	4300	28000	28000	7.4	59.41				
27	4300	26600	26600	7.4	52.68				
29	4300	25500	25500	7.4	47.63				
35	4300	23800	23800	7.4	40.37*				
40	4300	22400	22400	7.4	35.26				
47	4300	20700	20700	7.5	29.49				
 2									
45	4300	21100	21100	6.7	30.77				
51	4300	20100	20100	6.8	27.58				
56	4300	19200	19200	6.8	24.90*				
62	4300	18300	18300	6.9	22.62				
70	4300	17300	17300	6.9	20.07				
77	4300	16600	16600	6.8	18.21				
89	4300	15400	15400	6.9	15.65				
102	4300	14400	14400	6.9	13.66				
121	4300	13300	13300	7	11.59				
138	4300	12400	12400	7.1	10.13				
164	4300	11300	11300	7.2	8.56				
178	2970	13800	13800	8.8	7.86				
210	2970	12800	12800	8.9	6.66				
241	2970	12100	12100	9	5.82				
285	2900	11300	11300	9.3	4.92				

R137DRL..BF, n _e =1400 1/min										8000 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(R) °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1	180LC-D2
		R	RF							
 3										
6.3	8000	53400	53400	6	222.60*					
7.4	8000	53400	53400	6	188.45					
8.0	8000	53400	53400	6.1	174.40*					
9.0	8000	53400	53400	6.1	156.31					
9.9	8000	53400	53400	6.1	141.12*					
11	8000	53400	53400	6.1	128.18					
12	8000	53400	53400	6.1	113.72					
14	8000	53400	53400	6.1	103.20*					
16	8000	53400	53400	6.1	88.70*					
17	8000	53400	53400	6.4	80.91*					
19	8000	53400	53400	6.4	73.49					
21	8000	53400	53400	6.4	65.20					
24	8000	53400	53400	6.4	59.17*					
28	8000	53400	53400	6.4	50.86*					
32	8000	53400	53400	6.4	44.39					
37	8000	53400	53400	6.4	37.65					
43	8000	53400	53400	6.5	32.91					
50	7680	54100	54100	6.5	27.83					
 2										
47	7780	53900	53900	5.7	29.57*					
58	8000	49400	49400	5.8	24.12					
64	8000	47100	47100	5.8	22.00*					
74	8000	43500	43500	5.9	19.04*					
83	8000	40600	40600	5.9	16.80*					
96	8000	37300	37300	5.9	14.51					
109	8000	34700	34700	6	12.83					
130	8000	31100	31100	6.1	10.79					
161	7840	27600	27600	6.1	8.71					
184	5110	39000	39000	8	7.59					
219	5110	35900	35900	8.2	6.38					
272	4600	34500	34500	8.2	5.15					

R147DRL..BF, n _e =1400 1/min										13000 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) °	i	132S-D1 132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1	180LC-D2	
		R	RF							
 3										
8.6	13000	62700	62700	5.5	163.31					
9.5	13000	62700	62700	5.5	146.91					
12	13000	62700	62700	5.5	119.86					
13	13000	62700	62700	5.5	109.31					
15	13000	62700	62700	5.5	94.60*					
17	13000	62700	62700	5.5	83.47					
19	13000	62700	62700	5.5	72.09					
21	13000	62700	62700	5.8	66.99					

R147DRL..BF, $n_e=1400$ 1/min						13000 Nm			
n_a rpm	M_{amax} Nm	F_{Ra} N		$\Phi_{(R)}$ °	i	132S-D1 132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1	180LC-D2
		R	RF						
23	13000	62700	62700	5.8	61.09				
26	13000	62700	62700	5.8	52.87				
30	13000	62700	62700	5.8	46.65				
35	13000	62700	62700	5.8	40.29				
39	13000	62700	62700	5.9	35.64				
47	13000	62700	62700	5.9	29.95				
58	11900	64700	64700	5.9	24.19				
 2									
68	12000	64600	64600	5.2	20.44				
78	10500	67000	67000	5.3	18.04				
90	13000	62700	62700	5.3	15.64				
101	12600	63400	63400	5.3	13.91				
117	13000	60400	60400	5.4	11.99				
144	13000	54400	54400	5.5	9.74				
169	13000	49900	49900	5.6	8.26				
193	8670	58400	58400	7.5	7.25				
238	8670	53200	53200	7.6	5.89				
280	8670	49300	49300	7.8	5.00				

R167DRL..BF, n _e =1400 1/min						18000 Nm			
n _a rpm	M _{amax} Nm	F _{Ra} N		Φ _(/R) °	i	160M-D1 160MC-D1	160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1	180LC-D2
		R	RF						
 3									
6.1	18000	120000	120000	5.2	229.71				
7.5	18000	120000	120000	5.2	186.93*				
9.1	18000	120000	120000	5.2	153.07				
10	18000	120000	120000	5.2	139.98				
11	18000	120000	120000	5.2	121.81*				
13	18000	120000	120000	5.2	107.49				
15	18000	120000	120000	5.2	93.19				
17	18000	120000	120000	5.2	82.91*				
19	18000	120000	120000	5.6	73.70*				
21	18000	120000	120000	5.6	67.40				
24	18000	120000	120000	5.6	58.65				
27	18000	120000	120000	5.6	51.76				
31	18000	120000	120000	5.6	44.87				
35	18000	120000	120000	5.6	39.92				
41	18000	120000	120000	5.6	34.41				
50	18000	120000	120000	5.7	27.96				
59	18000	116500	116500	5.7	23.71				
 2									
30	7000	120000	120000	5	46.00				
37	9000	120000	120000	5	37.74				
46	10000	120000	120000	5	30.71				

R167DRL..BF, $n_e=1400$ 1/min							18000 Nm		
n_a rpm	M_{amax} Nm	F_{Ra}		$\Phi_{(R)}$ °	i	160M-D1 160MC-D1	160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1	180LC-D2
		R	N						
57	14000	120000	120000	5.1	24.57				
64	13000	120000	120000	5.1	21.85				
74	16000	111400	111400	5.1	19.03				
82	15000	108900	108900	5.1	16.98				
97	18000	93800	93800	5.2	14.48				
117	17000	88700	88700	5.3	11.99				
137	17000	82500	82500	5.3	10.24				

9.2.2 Geometrisch mögliche Kombinationen F..DRL..BF..

F57DRL..BF, n _e =1400 1/min								600 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(I/R) '	i	132S-D1
		F	FF	FA	FAF			
 3								
7.0	600	9200	7900	11500	11500	6	199.70	
7.6	600	9200	7900	11500	11500	6.1	183.60	
8.9	600	9200	7900	11500	11500	6.1	157.09	
10	600	9200	7900	11500	11500	6.1	136.16	
11	600	9200	7900	11500	11500	6.1	127.27	
13	600	9200	7900	10800	10800	6.1	110.01	
15	600	9200	7900	9960	9960	6.1	93.47	
17	600	9200	7900	9420	9420	6.1	83.46	
19	600	9200	7900	8810	8810	6.5	72.98	
21	600	9200	7900	8510	8510	6.5	68.22	
24	600	9200	7900	7890	7890	6.5	58.97	
28	600	9200	7900	7230	7230	6.6	50.10	
31	600	9160	7900	6790	6790	6.6	44.73	
37	600	8510	7900	6210	6210	6.6	38.21	
39	600	8250	7900	5980	5980	6.6	35.79	
46	590	7650	7850	5460	5460	6.7	30.15	
 2								
35	290	10500	9550	8750	8750	5.7	40.13	
41	500	8670	8500	6580	6580	5.7	34.24	
47	545	7890	8060	5790	5790	5.6	29.94	
49	535	7760	7930	5690	5690	5.7	28.45	
56	575	7060	7260	4970	4970	5.8	24.96	
66	600	6350	6580	4280	4280	5.8	21.17	
73	600	6020	6260	3980	3980	5.9	19.11	
83	600	5620	5860	3630	3630	5.9	16.81	
88	600	5450	5690	3470	3470	6	15.88	
104	600	4980	5230	3050	3050	6.1	13.52	
114	600	4710	4970	2810	2810	6.3	12.29	
132	600	4320	4590	2470	2470	6.4	10.64	
150	420	4760	4950	3170	3170	7.6	9.31	
171	420	4450	4640	2880	2880	7.8	8.19	
181	420	4310	4500	2760	2760	7.8	7.73	
213	420	3940	4140	2430	2430	8	6.58	
234	420	3730	3940	2240	2240	8.6	5.98	
270	415	3460	3670	2020	2020	8.8	5.18	

F67DRL..BF, n _e =1400 1/min								820 Nm	
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	132S-D1	132S-D2 132MC-D1
		F	FF	FA	FAF				
 3									
6.1	820	10300	10300	13000	13000	5.7	228.99		
7.2	820	10300	10300	13000	13000	5.8	195.39		
8.2	820	10300	10300	12700	12700	5.7	170.85		
8.6	820	10300	10300	12400	12400	5.7	162.31		
9.8	820	10300	10300	11700	11700	5.8	142.40		

F67DRL..BF, $n_e=1400$ 1/min								820 Nm	
n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1
		F	FF	FA	FAF				
12	820	10300	10300	10800	10800	5.8	120.79		
13	820	10300	10300	10200	10200	5.8	109.04		
15	820	10300	10300	9570	9570	5.8	95.94		
15	820	10300	10300	9290	9290	5.8	90.59		
18	820	10300	10300	8680	8680	6.3	79.76		
21	820	10300	10300	7930	7930	6.3	67.65		
23	820	10300	10300	7480	7480	6.3	61.07		
26	820	10300	10300	6940	6940	6.3	53.73		
28	820	10300	10300	6710	6710	6.3	50.74		
32	820	10300	10300	6080	6080	6.3	43.20		
36	780	10700	10700	5980	5980	6.4	39.26		
41	740	11000	11000	5730	5730	6.5	34.01		
 2									
39	820	10300	10300	5440	5440	5.3	36.30		
44	820	10300	10300	5000	5000	5.4	32.08		
51	820	10300	10300	4470	4470	5.4	27.41		
56	820	10300	10300	4190	4190	5.4	25.13		
63	820	10300	10300	3780	3780	5.5	22.05		
67	820	10300	10300	3620	3620	5.5	20.90*		
77	820	10300	10300	3230	3230	5.6	18.29		
85	820	10300	10300	2940	2940	5.8	16.48		
97	820	10300	10300	2580	2580	5.7	14.46		
110	820	10300	10300	2260	2260	5.8	12.76		
124	820	10300	10300	1960	1960	6	11.31		
145	820	10300	10300	1580	1580	6.1	9.66		
154	530	11400	11600	2620	2620	8	9.08		
163	570	10900	11200	2180	2180	8.1	8.60		
186	610	10100	10400	1570	1570	8.2	7.53		
206	620	9660	9950	1280	1280	8.7	6.78		
235	610	9200	9500	1090	1090	8.6	5.95		
267	590	8850	9140	1010	1010	8.8	5.25		
300	560	8590	8860	1020	1020	9.3	4.66		
353	500	8390	8620	1220	1220	9.6	3.97		

F77DRL..BF, n _e =1400 1/min								1500 Nm		
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2
		F	FF	FA	FAF					
 3										
5.0	1500	15700	17100	20000	20000	5.4	281.71			
5.3	1500	15700	17100	20000	20000	5.4	262.93			
6.2	1500	15700	17100	19300	19300	5.4	225.79			
7.1	1500	15700	17100	18100	18100	5.4	198.31			
7.4	1500	15700	17100	17700	17700	5.4	188.40			
8.4	1500	15700	17100	16700	16700	5.5	166.47			
9.8	1500	15700	17100	15400	15400	5.5	142.27			
11	1500	15700	17100	14800	14800	5.5	130.42			
12	1500	15700	17100	13800	13800	5.5	114.45			
13	1500	15700	17100	13400	13400	5.5	108.46*			

F77DRL..BF, $n_e=1400$ 1/min**1500 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2
		F	FF	FA	FAF					
15	1500	15700	17100	12500	12500	5.5	94.93			
16	1500	15700	17100	11800	11800	5.5	85.52			
19	1500	15700	17100	11000	11000	5.5	75.02			
19	1500	15700	17100	10700	10700	5.9	72.50			
21	1500	15700	17100	10200	10200	5.9	66.46			
24	1500	15700	17100	9450	9450	6	58.32			
25	1500	15700	17100	9140	9140	6	55.27			
29	1500	15700	17100	8410	8410	6	48.37			
32	1500	15700	17100	7850	7850	6.1	43.58			
37	1500	15700	17100	7190	7190	6	38.23			
41	1500	15700	17100	6580	6580	6.1	33.74			
47	1500	15700	17100	6010	6010	6.1	29.91			
55	1450	16100	17300	5560	5560	6.2	25.54			



38	1110	17900	18300	8990	8990	4.9	36.58			
44	1380	16500	17500	6870	6870	4.9	31.51			
49	1430	16200	17300	6190	6190	4.9	28.75			
55	1500	15700	17100	5300	5300	4.9	25.50*			
65	1500	15700	17100	4560	4560	5	21.43			
71	1500	15700	17100	4220	4220	5.1	19.70			
80	1500	15700	17100	3750	3750	5.2	17.49			
90	1500	15700	17100	3330	3330	5.2	15.64*			
100	1500	15700	16700	2940	2940	5.4	14.06			
115	1500	14900	15800	2450	2450	5.4	12.20			
128	1500	14200	15100	2080	2080	5.5	10.93			
151	1080	13800	14600	2300	2300	7.1	9.30			
169	1080	13100	13900	1940	1940	7.1	8.26			
189	1080	12500	13300	1610	1610	7.2	7.39			
211	1080	12000	12700	1310	1310	7.5	6.64			
243	1080	11300	12000	930	930	7.7	5.76			
271	1080	10700	11500	640	640	7.8	5.16			
327	1010	10200	10900	630	630	8.1	4.28			

F87DRL..BF, $n_e=1400$ 1/min**3000 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1
		F	FF	FA	FAF						
5.2	3000	19800	19800	29800	29800	7	270.68				
5.5	3000	19800	19800	28900	28900	7	255.37				
6.1	3000	19800	19800	27300	27300	7	228.93				
7.1	3000	19800	19800	25300	25300	7	197.20				
7.8	3000	19800	19800	24100	24100	7	179.97				
8.8	3000	19800	19800	22500	22500	7	159.61				
10	3000	19800	19800	20400	20400	7	134.16				
11	3000	19800	19800	19400	19400	7	123.29				
13	3000	19800	19800	18100	18100	7.1	109.49				
14	3000	19800	19800	16900	16900	7.1	97.89				



F87DRL..BF, $n_e=1400$ 1/min								3000 Nm			
n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1
		F	FF	FA	FAF						
16	3000	19800	19800	15800	15800	7.1	88.01				
18	3000	19800	19800	14300	14300	7.1	76.39				
20	3000	19600	19800	13300	13300	7.1	68.40				
25	3000	17700	19800	11600	11600	7.1	56.75				
28	2940	16800	21500	10800	10800	7.5	50.36				
31	2820	16200	21700	10500	10500	7.5	45.28				
36	2720	15400	22000	9910	9910	7.5	39.30				
40	2610	14900	22200	9610	9610	7.6	35.19				
48	2510	13800	22400	8740	8740	7.6	29.20				
 2											
41	2610	14600	22200	9340	9340	6.6	33.92				
49	2450	13900	22500	8940	8940	6.6	28.78				
53	3000	11100	19800	5610	5610	6.8	26.50				
59	3000	10300	19100	4850	4850	6.8	23.68				
66	3000	9520	18000	4160	4160	6.8	21.32*				
73	3000	8840	17000	3540	3540	6.9	19.31				
82	3000	8040	15800	2810	2810	6.9	17.12				
90	3000	7390	14700	2220	2220	7	15.48				
107	3000	6370	13100	1300	1300	7	13.12*				
122	3000	5580	11800	575	575	7.1	11.46				
146	2880	5050	11000	275	275	7.2	9.58				
169	1530	8890	15800	5550	5550	6.7	8.29				
190	1530	8280	15000	5000	5000	6.8	7.35				
211	1530	7790	14400	4550	4550	6.8	6.65				
249	1530	7020	13400	3850	3850	7	5.63				
285	1530	6430	12600	3310	3310	7.1	4.92				
340	1460	5980	11800	3020	3020	7.4	4.12				

F97DRL..BF, n _e =1400 1/min								4300 Nm				
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) '	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1	180LC-D2
		F	FF	FA	FAF							
 3												
5.1	4300	29900	28300	40000	40000	6	276.77					
5.5	4300	29900	28300	40000	40000	6	253.41					
6.3	4300	29900	28300	40000	40000	6	223.88					
7.4	4300	29900	28300	40000	40000	6	189.92					
8.0	4300	29900	28300	40000	40000	6	174.87					
9.0	4300	29900	28300	40000	40000	6	156.30					
9.9	4300	29900	28300	40000	40000	6	140.71					
11	4300	29900	28300	40000	40000	6	127.42					
12	4300	29900	28300	40000	40000	6	112.99					
14	4300	29900	28300	38100	38100	6	102.16					
14	4300	29900	28300	37200	37200	6.2	97.58					
16	4300	29900	28300	35700	35700	6.3	89.85					
16	4300	29900	28300	35100	35100	6	86.59					

F97DRL..BF, $n_e=1400$ 1/min

4300 Nm

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1	180LC-D2
		F	FF	FA	FAF							
17	4300	29900	28300	33800	33800	6.3	80.31					
19	4300	29900	28300	32800	32800	6	75.63					
19	4300	29900	28300	32000	32000	6.3	72.29					
21	4300	29000	28300	30400	30400	6.3	65.47					
24	4300	27200	28300	28500	28500	6.3	58.06					
27	4300	25800	28300	26900	26900	6.3	52.49					
31	4300	23600	28300	24500	24500	6.4	44.49					
36	4300	21900	28300	22700	22700	6.4	38.86					
43	4300	19800	28300	20300	20300	6.4	32.50					



32	3070	27600	30200	29300	29300	5.6	43.28					
38	3070	25500	30200	27000	27000	5.6	36.64					
41	4300	20300	28300	20900	20900	5.7	33.91					
46	4300	19000	28300	19500	19500	5.8	30.39					
51	4300	17900	27800	18200	18200	5.8	27.44*					
56	4300	16800	26600	17100	17100	5.8	24.92					
63	4300	15600	25200	15700	15700	5.9	22.11					
70	4300	14600	24100	14700	14700	5.8	20.07					
81	4300	13200	22500	13100	13100	5.9	17.25*					
93	4300	11900	21100	11700	11700	5.9	15.06					
110	4300	10500	19400	10100	10100	6	12.77					
125	4100	10000	18700	9710	9710	6	11.16					
155	2360	13400	21100	13900	13900	8.6	9.06					
170	2360	12600	20300	13100	13100	8.5	8.22					
198	2360	11500	19000	11900	11900	8.6	7.07					
227	2250	11100	18300	11400	11400	8.7	6.17					
268	2150	10400	17400	10700	10700	8.8	5.23					
306	2050	9950	16800	10200	10200	9	4.57					
362	1800	9960	16500	10300	10300	9	3.87					

F107DRL..BF, $n_e=1400$ 1/min

7840 Nm

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1	180LC-D2
		F	FF	FA	FAF							



5.5	7680	49800	51100	58600	65000	5.4	254.40*					
6.5	7680	49800	51100	54000	65000	5.4	215.37					
7.0	7680	49800	51100	52000	65000	5.4	199.31					
7.8	7680	49800	51100	49100	65000	5.4	178.64					
8.7	7680	49800	51100	46600	65000	5.4	161.28*					
9.6	7680	49800	51100	44200	65000	5.4	146.49					
11	7680	49800	51100	41400	65000	5.4	129.97					
12	7680	49800	51100	39300	65000	5.4	117.94					
14	7680	49800	51100	36000	65000	5.4	101.38*					
15	7680	49800	51100	34100	65000	5.6	92.47*					
16	7680	49800	51100	33200	65000	5.4	88.49					

F107DRL..BF, $n_e=1400$ 1/min

7840 Nm

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1	180LC-D2
		F	FF	FA	FAF							
17	7680	49800	51100	32200	65000	5.7	83.99					
19	7680	49800	51100	29900	65000	5.7	74.52					
21	7680	49800	51100	28000	65000	5.7	67.62					
24	7680	47800	51100	25300	65000	5.7	58.12*					
28	7680	45100	51100	23000	65000	5.7	50.73					
33	7680	42000	49000	20300	65000	5.7	43.03					
37	7680	39500	46300	18300	65000	5.7	37.61					
44	7680	36500	42700	15800	65000	5.8	31.80					
 2												
41	7400	38300	44900	17700	65000	5.1	33.79*					
51	7840	33300	38800	13200	65000	5.2	27.57					
56	7840	31500	36800	12000	64500	5.2	25.14					
64	7840	28800	33800	10100	60600	5.2	21.76*					
73	7840	26500	31200	8600	57400	5.2	19.20*					
84	7840	23900	28200	6870	53800	5.3	16.58					
95	7680	22400	26500	6050	51500	5.3	14.67					
114	7000	22600	26600	6580	49800	5.4	12.33					
141	6500	21500	25300	6200	47000	5.4	9.96					
144	4910	23500	27300	9670	50000	6.7	9.69					
167	4800	22000	25600	8720	47400	6.7	8.37					
189	4600	21300	24800	8400	45800	6.8	7.40					
225	4600	19000	22200	6920	42600	7	6.22					
278	4600	16400	19200	4520	39000	7	5.03					

F127DRL..BF, $n_e=1400$ 1/min

12000 Nm

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1	180LC-D2
		F	FF	FA	FAF							
8.2	12000	90000	87700	48500	90000	4.9	170.83					
9.1	12000	90000	87700	45500	90000	4.9	153.67*					
11	12000	90000	87700	40000	90000	4.9	125.37					
12	12000	88000	87700	37700	90000	4.9	114.34					
14	12000	83000	87700	34100	90000	4.9	98.95					
16	12000	79000	87700	31200	90000	4.9	87.31*					
19	12000	74300	85600	27900	90000	4.9	75.41*					
20	12000	72100	83200	26300	90000	5.2	70.07					
22	12000	69400	80300	24300	90000	5.2	63.91					
25	12000	65200	75500	21400	90000	5.2	55.31					
29	12000	61300	71000	18900	90000	5.2	48.80					
33	12000	56800	66000	16200	90000	5.2	42.15					
38	12000	53200	61900	14000	90000	5.2	37.28					
45	12000	48300	56300	11100	86400	5.3	31.33					
55	12000	42400	49800	7720	78800	5.3	25.30					
 2												
52	8500	55300	63500	19800	90000	4.6	26.86					

F127DRL..BF, $n_e=1400$ 1/min**12000 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1	180LC-D2
		F	FF	FA	FAF							
57	8500	53300	61300	18400	88300	4.6	24.57					
65	12000	38000	44800	4380	73100	4.7	21.38					
74	11000	38800	45500	6620	72100	4.7	18.87					
86	11000	35400	41600	3190	67700	4.7	16.36					
96	11000	32600	38500	475	64200	4.7	14.55					
112	10000	33300	39100	2670	63000	4.8	12.54					
137	9500	30900	36300	1090	58900	4.9	10.19					
158	7000	36400	42600	8410	61400	6.3	8.86					
178	6000	37000	42800	10600	61800	6.4	7.88					
206	7000	32200	38100	5670	55000	6.5	6.80					
254	6000	31700	37100	7110	53500	6.7	5.52					
299	6000	29500	34700	5630	50000	6.8	4.68					

F157DRL..BF, $n_e=1400$ 1/min**18000 Nm**

n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	160M-D1 160MC-D1	160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1	180LC-D2
		F	FF	FA	FAF						
🔩 3											
5.2	18000	100300	100300	120000	120000	4.5	267.43				
6.4	18000	100300	100300	120000	120000	4.5	217.62*				
7.9	18000	100300	100300	120000	120000	4.5	178.20*				
8.6	18000	100300	100300	120000	120000	4.5	162.96				
9.9	18000	100300	100300	120000	120000	4.5	141.80*				
11	18000	100300	100300	120000	120000	4.5	125.14				
13	18000	100300	100300	120000	120000	4.5	108.49				
15	18000	100300	100300	120000	120000	4.5	96.53*				
16	18000	95800	100300	120000	120000	4.8	85.80*				
18	18000	92300	100300	115700	115700	4.8	78.46				
21	18000	87000	96700	109100	109100	4.8	68.28*				
23	18000	82500	91900	103400	103400	4.8	60.25				
27	18000	77500	86700	97200	97200	4.8	52.24				
30	18000	73600	82700	92400	92400	4.8	46.48*				
35	18000	68900	77700	86400	86400	4.9	40.06				
43	18000	62500	71000	78500	78500	4.9	32.55				
51	18000	57800	66100	72600	72600	4.9	27.60				
🔩 2											
26	8000	98300	105400	120000	120000	4.3	53.55				
32	10000	87800	95000	109900	109900	4.3	43.94*				
39	11000	79300	86400	99300	99300	4.4	35.75*				
49	17000	60800	68900	76300	76300	4.4	28.60*				
55	15000	61500	69000	77100	77100	4.4	25.43				
63	18000	51800	59800	65100	65100	4.4	22.16				
71	17000	50900	58500	63900	63900	4.4	19.77				
83	18000	44900	52600	56400	56400	4.5	16.85				
100	17000	42500	49700	53400	53400	4.6	13.96				
117	16000	40900	47800	51400	51400	4.6	11.92				

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9.2.3 Geometrisch mögliche Kombinationen K..DRL..BF..

K57DRL..BF, n _e =1400 1/min								600 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	132S-D1
		K	KF	KA	KAF			
 3								
9.6	600	7630	7720	11500	11500	5.9	145.14*	
11	600	7630	7720	10900	10900	5.9	123.85	
13	600	7630	7720	10200	10200	5.9	108.29	
14	600	7630	7720	9900	9900	5.9	102.88*	
16	600	7630	7720	9260	9260	5.9	90.26*	
18	600	7630	7720	8500	8500	5.9	76.56*	
20	600	7630	7720	8040	8040	6	69.12	
23	600	7630	7720	7490	7490	6	60.81*	
24	600	7630	7720	7260	7260	6	57.42*	
29	600	7630	7720	6610	6610	6	48.89	
32	600	7630	7720	6240	6240	6.1	44.43	
36	600	7630	7720	5710	5710	6.1	38.49	
39	600	7630	7720	5440	5440	6.8	35.70	
46	600	7300	7460	4880	4880	6.9	30.28	
51	600	6930	7090	4550	4550	6.9	27.34	
58	600	6480	6650	4140	4140	6.9	24.05	
62	600	6280	6460	3970	3970	6.9	22.71	
72	575	5910	6080	3710	3710	7	19.34	
80	555	5740	5910	3610	3610	7.2	17.57	
92	535	5430	5600	3390	3390	7.3	15.22	
106	510	5190	5350	3240	3240	7.4	13.25	
117	415	5150	5400	3470	3470	9.4	11.92	
124	415	4990	5250	3340	3340	9.5	11.26	
146	405	4650	4900	3050	3050	9.6	9.59	
161	390	4520	4760	2980	2980	10	8.71	
185	365	4360	4580	2900	2900	10.2	7.55	
213	345	4180	4400	2800	2800	10.4	6.57	
299	300	3800	3980	2580	2580	11	4.69	

K67DRL..BF, n _e =1400 1/min								820 Nm	
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	132S-D1	132S-D2 132MC-D1
		K	KF	KA	KAF				
 3									
9.7	820	10300	10300	10700	10700	6.2	144.79*		
11	820	10300	10300	9770	9770	6.2	123.54		
13	820	10300	10300	9060	9060	6.1	108.03		
14	820	10300	10300	8800	8800	6.1	102.62		
16	820	10300	10300	8140	8140	6.2	90.04		
18	820	10300	10300	7360	7360	6.2	76.37		
20	820	10300	10300	6900	6900	6.2	68.95		
23	820	10300	10300	6340	6340	6.2	60.66		
24	820	10300	10300	6100	6100	6.2	57.28		
29	820	10300	10300	5440	5440	6.3	48.77		
32	820	10300	10300	5070	5070	6.3	44.32		
36	800	10500	10500	4690	4690	6.4	38.39		
39	820	10300	10300	4260	4260	7.1	35.62		

K67DRL..BF, $n_e=1400$ 1/min**820 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1
		K	KF	KA	KAF				
46	820	10300	10300	3680	3680	7.1	30.22		
51	820	10300	10300	3340	3340	7.1	27.28		
58	800	10500	10500	3090	3090	7.2	24.00		
62	780	10700	10700	3070	3070	7.2	22.66		
73	760	10800	10800	2740	2740	7.3	19.30		
80	740	11000	11000	2630	2630	7.5	17.54		
92	700	11300	11300	2550	2550	7.5	15.19		
106	670	11500	11500	2420	2420	7.6	13.22		
112	530	12300	12300	2710	2710	8.6	12.48		
132	500	11800	12000	2590	2590	8.8	10.63		
145	480	11500	11700	2550	2550	9.1	9.66		
167	440	11100	11400	2590	2590	9.3	8.37		
192	420	10700	10900	2480	2480	9.4	7.28		
269	350	9860	10000	2450	2450	10	5.20		

K77DRL..BF, $n_e=1400$ 1/min**1550 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2
		K	KF	KA	KAF					
7.3	1450	16100	16900	16200	16200	5.4	192.18			
7.8	1450	16100	16900	15600	15600	5.4	179.37			
9.1	1550	15400	16600	13700	13700	5.4	154.02			
10	1550	15400	16600	12700	12700	5.4	135.28			
11	1550	15400	16600	12300	12300	5.4	128.52			
12	1550	15400	16600	11400	11400	5.4	113.56			
14	1550	15400	16600	10300	10300	5.4	97.05			
16	1550	15400	16600	9730	9730	5.4	88.97			
18	1550	15400	16600	8890	8890	5.4	78.07			
19	1550	15400	16600	8550	8550	5.4	73.99			
22	1550	15400	16600	7740	7740	5.5	64.75			
24	1550	15400	16600	7130	7130	5.5	58.34			
27	1550	15400	16600	6390	6390	5.5	51.18			
31	1550	15400	16600	5720	5720	5.5	45.16			
35	1550	15400	16600	5100	5100	5.6	40.04			
36	1500	15700	16800	5210	5210	6	38.39			
40	1550	15400	16600	4460	4460	6	35.20			
45	1550	15400	16600	3840	3840	6.1	30.89			
48	1550	15400	16600	3590	3590	6.1	29.27			
55	1550	15400	16600	2990	2990	6.1	25.62			
61	1550	15400	16600	2550	2550	6.3	23.08			
69	1500	15700	16800	2330	2330	6.3	20.25			
78	1450	16100	16900	2160	2160	6.3	17.87			
88	1400	15500	16600	2030	2030	6.4	15.84			
104	1340	14800	15800	1850	1850	6.5	13.52			
113	1000	15100	16000	2820	2820	7.9	12.36			
129	990	14400	15200	2460	2460	7.8	10.84			
146	940	13900	14700	2430	2430	7.9	9.56			
165	890	13500	14300	2430	2430	8.2	8.48			
193	820	13100	13800	2490	2490	8.3	7.24			

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K87DRL..BF, n _e =1400 1/min										2700 Nm	
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1
		K	KF	KA	KAF						
 3											
7.1	2700	27300	26300	25400	25400	5.3	197.37				
8.0	2700	27300	26300	23700	23700	5.3	174.19				
8.5	2700	27300	26300	23000	23000	5.3	164.34*				
9.5	2700	27300	26300	21600	21600	5.4	147.32*				
11	2700	27300	26300	19900	19900	5.4	126.91*				
12	2700	27300	26300	18800	18800	5.4	115.82				
14	2700	27300	26300	17500	17500	5.4	102.71*				
16	2700	27300	26300	15700	15700	5.4	86.34				
18	2700	27300	26300	14800	14800	5.4	79.34				
20	2700	27300	26300	13700	13700	5.4	70.46				
22	2700	26200	26300	12600	12600	5.4	63.00*				
25	2700	25000	26300	11600	11600	5.5	56.64				
28	2700	23500	26300	10400	10400	5.5	49.16				
32	2600	22800	26000	10100	10100	5.5	44.02				
38	2500	21400	24500	9140	9140	5.5	36.52*				
45	2700	19200	22100	6900	6900	6.1	31.39				
50	2600	18500	21400	6600	6600	6.1	27.88				
56	2500	18000	20700	6390	6390	6.1	24.92				
62	2300	17900	20600	6790	6790	6.2	22.41				
72	2300	16800	19300	5890	5890	6.3	19.45				
80	2200	16300	18800	5770	5770	6.3	17.42				
88	1800	16000	18500	5810	5810	6.5	16.00				
97	2100	15300	17700	5240	5240	6.4	14.45				
111	2000	14800	17000	5030	5030	6.5	12.56				
125	1500	14900	17100	5770	5770	6.7	11.17				
140	1500	14200	16400	5210	5210	6.8	10.00				
169	1400	13500	15600	4960	4960	7	8.29				
194	1300	13200	15100	4970	4970	7.1	7.21				

K97DRL..BF, n _e =1400 1/min											4300 Nm	
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	132S-D1	132S-D2	132MC-D2	180S-D2	180LC-D2
		K	KF	KA	KAF				132MC-D1	160M-D1	160MC-D1	
 3												
8.0	4300	40000	38700	40000	40000	6.8	176.05*					
9.1	4300	40000	38700	40000	40000	6.8	153.21*					
10.0	4300	40000	38700	40000	40000	6.8	140.28					
11	4300	40000	38700	39500	39500	6.8	123.93*					
13	4300	40000	38700	36300	36300	6.8	105.13					
14	4300	40000	38700	34700	34700	6.8	96.80					
16	4300	38800	38700	32700	32700	6.8	86.52					
18	4300	37100	38700	30900	30900	6.8	77.89*					
20	4300	35600	38700	29200	29200	6.9	70.54					
22	4300	33800	37800	27300	27300	6.9	62.55					
25	4300	32300	36300	25700	25700	6.9	56.55					

K97DRL..BF, $n_e=1400$ 1/min

4300 Nm

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1	180LC-D2
		K	KF	KA	KAF							
29	4300	30000	33800	23300	23300	6.9	47.93*					
33	4300	28300	31900	21300	21300	6.9	41.87					
37	4300	27100	30700	20100	20100	7.4	38.30					
41	4300	25700	29200	18600	18600	7.5	34.23					
45	4300	24500	27800	17300	17300	7.5	30.82					
50	4300	23300	26600	16100	16100	7.5	27.91					
57	4300	22000	25200	14700	14700	7.6	24.75					
63	4300	20900	24000	13500	13500	7.6	22.37					
74	4300	19100	22100	11700	11700	7.6	18.96					
85	4300	17800	20700	10300	10300	7.7	16.56					
101	4300	16100	18900	8520	8520	7.7	13.85					
117	3890	16200	18800	9100	9100	7.8	11.99					
134	2870	16400	19000	10300	10300	9.7	10.41					
161	2660	15800	18200	9930	9930	9.8	8.71					
186	2400	15700	18100	10200	10200	10	7.54					

9

K107DRL..BF, $n_e=1400$ 1/min

8000 Nm

n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1	180LC-D2
		K	KF	KA	KAF							
 3												
9.8	8000	65000	65000	39600	65000	5.7	143.47*					
12	8000	61500	65000	35700	65000	5.7	121.46					
12	8000	59300	65000	34000	65000	5.8	112.41*					
14	8000	56200	64700	31700	65000	5.8	100.75					
15	8000	53500	61600	29600	65000	5.8	90.96*					
17	8000	50900	58700	27700	65000	5.8	82.61					
19	8000	47900	55300	25400	65000	5.8	73.30					
21	8000	45400	52500	23600	65000	5.8	66.52*					
24	8000	41700	48400	20900	65000	5.8	57.17*					
28	7840	39300	45600	19200	65000	5.8	49.90					
33	7360	37900	44000	18400	65000	5.8	42.33*					
38	7200	35800	41500	17000	65000	5.8	37.00*					
43	7200	33200	38600	15100	65000	6.4	32.69					
45	6800	34200	39700	16100	65000	5.9	31.28*					
48	7200	30700	35800	13400	65000	6.5	29.00					
53	7200	28800	33600	12100	65000	6.4	26.32					
62	7200	25800	30300	10100	61200	6.5	22.62					
71	7200	23200	27300	8440	57700	6.5	19.74					
84	7050	21000	24800	7080	54200	6.5	16.75					
96	6890	19500	23000	6180	51700	6.6	14.64					
104	4300	29200	34200	12600	56500	8.8	13.43					
119	4300	27500	32300	11100	53500	8.8	11.73					
141	4190	25800	30500	10000	50500	8.9	9.94					
161	4070	24600	29100	9270	48300	9	8.69					
190	3600	24400	28500	9900	47100	9	7.35					

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K127DRL..BF, n _e =1400 1/min										13000 Nm			
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	132S-D1	132S-D2	132MC-D2	180S-D2	180LC-D2	
		K	KF	KA	KAF				132MC-D1	160M-D1	160MC-D1		160MC-D2
 3													
9.6	13000	79200	80900	37900	90000	5.2	146.07						
10	13000	79200	80900	36000	90000	5.2	136.14						
11	13000	79200	80900	33200	90000	5.2	122.48						
13	13000	79200	80900	30500	90000	5.2	110.18						
16	13000	75100	80900	25600	90000	5.2	89.89						
17	13000	72100	80900	23400	90000	5.3	81.98						
20	13000	67700	79500	20300	90000	5.3	70.95*						
22	13000	64000	75500	17600	90000	5.3	62.60						
26	13000	59800	70900	14700	90000	5.3	54.07						
29	13000	56500	67300	12300	90000	5.3	47.82						
35	13000	52000	62400	9090	90000	5.3	40.19						
39	13000	49400	59600	7280	86300	5.6	36.25						
45	13000	45900	55800	4840	80900	5.6	31.37						
51	13000	43000	52600	2830	76300	5.7	27.68						
59	13000	39800	47900	575	71300	5.7	23.91						
66	13000	37200	44000	39	67200	5.7	21.15						
79	13000	32600	38600	39	61600	5.8	17.77						
98	12100	31000	36700	35	58100	5.8	14.35						
109	8530	35400	42900	3080	62100	8	12.79						
130	8000	33900	41000	3100	59300	8.1	10.74						
161	7230	32500	39100	3750	56600	8.1	8.68						

K157DRL..BF, n _e =1400 1/min											18000 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(R) °	i	160M-D1 160MC-D1	160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1	180LC-D2
		K	KF	KA	KAF						
 3											
9.3	18000	112200	108200	120000	120000	5.2	150.41				
11	18000	106500	108200	120000	120000	5.2	122.39				
14	18000	98000	108200	120000	120000	5.2	100.22				
15	18000	94400	105100	117100	117100	5.2	91.65				
18	18000	88900	99300	110300	110300	5.2	79.75				
20	18000	84200	94400	104400	104400	5.2	70.38				
23	18000	79000	89000	97900	97900	5.2	61.02				
26	18000	74900	84700	92700	92700	5.2	54.29				
30	18000	70000	79500	86500	86500	5.2	46.79				
37	18000	63400	72500	78200	78200	5.3	38.02				
45	18000	57500	66400	70900	70900	5.6	31.30				
51	18000	54000	62700	66400	66400	5.6	27.62				
58	18000	50000	58600	61500	61500	5.6	23.95				
66	18000	47000	55400	57700	57700	5.6	21.31				
76	18000	43200	51400	52900	52900	5.7	18.37				
94	18000	38200	46200	46700	46700	5.8	14.92				
111	17000	36600	44200	44800	44800	5.8	12.65				

K167DRL..BF, $n_e=1400$ 1/min**32000 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N K	$\Phi_{(R)}$ °	i	160M-D1 160MC-D1	160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1	180LC-D2
 3								
8.5	32000	150000	4.5	164.50				
10	32000	150000	4.5	134.99				
13	32000	150000	4.5	109.83				
16	32000	147200	4.5	87.86				
18	32000	140100	4.5	78.14				
21	32000	132000	4.5	68.07				
23	32000	125600	4.5	60.74				
27	32000	117000	4.6	51.77				
33	32000	107400	4.6	42.89				
38	32000	99700	4.6	36.61				
43	32000	93700	4.8	32.25				
49	32000	88600	4.8	28.77				
57	32000	81700	4.9	24.52				
69	32000	74000	4.9	20.32				
81	32000	67900	5	17.34				

K187DRL..BF, $n_e=1400$ 1/min**50000 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N K	$\Phi_{(R)}$ °	i	160M-D1 160MC-D1	160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1	180LC-D2
 3								
7.8	50000	190000	3.8	179.86				
8.5	50000	190000	3.8	165.21				
9.7	50000	186200	3.8	144.59				
11	50000	177700	3.8	129.69				
12	50000	167100	3.8	112.60				
14	50000	160100	3.8	102.16				
16	50000	149700	3.8	88.00				
19	50000	138100	3.8	73.96				
22	50000	129000	3.8	64.04				
26	50000	118100	3.9	53.36				
31	50000	108900	3.9	45.50*				
33	50000	105200	4.1	42.51				
36	50000	99900	4.1	38.57				
42	50000	92200	4.2	33.23				
50	50000	83500	4.2	27.92				
58	47600	80500	4.2	24.18				
69	43900	78000	4.3	20.15				
81	41400	75000	4.3	17.18				

9.2.4 Geometrisch mögliche Kombinationen S..DRL..BF..

S67DRL..BF, n _e =1400 1/min								520 Nm
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(R) °	i	132S-D1
		S	SF	SA	SAF			
 2								
6.4	520	8680	8680	12000	12000	-	217.41	
7.4	520	8680	8680	12000	12000	-	190.11	
7.8	520	8680	8680	12000	12000	-	180.60*	
8.8	520	8680	8680	12000	12000	-	158.45	
10	520	8680	8680	12000	12000	-	134.40*	
12	520	8680	8680	12000	12000	-	121.33	
13	520	8680	8680	12000	12000	-	106.75*	
14	520	8680	8680	12000	12000	-	100.80*	
16	520	8680	8680	11600	11600	-	85.83	
18	520	8680	8680	11100	11100	-	78.00*	
19	480	9020	9020	10700	10700	-	75.06	
21	520	8680	8680	10400	10400	-	67.57	
21	480	9020	9020	10100	10100	-	65.63	
22	480	9020	9020	9850	9850	-	62.35*	
24	500	8850	8850	9920	9920	-	58.80*	
26	480	8670	9020	9280	9280	-	54.70	
30	480	8060	9020	8600	8600	-	46.40*	
33	480	7690	8740	8200	8200	-	41.89	
38	480	7250	8280	7710	7710	-	36.85	
40	480	7060	8080	7490	7490	-	34.80*	
47	480	6540	7540	6920	6920	-	29.63	
52	480	6240	7240	6590	6590	-	26.93	
57	340	6040	6900	6270	6270	-	24.44	
60	480	5810	6800	6120	6120	-	23.33	
60	340	5890	6740	6110	6110	-	23.22*	
69	340	5520	6360	5700	5700	-	20.37	
69	425	5760	6650	6090	6090	-	20.30*	
81	340	5080	5910	4990	4990	-	17.28*	
90	340	4820	5640	4480	4480	-	15.60*	
102	340	4510	5310	3870	3870	-	13.73*	
108	340	4310	5110	3610	3610	-	12.96*	
127	340	3660	4430	2890	2890	-	11.03	
140	340	3290	4050	2480	2480	-	10.03	
161	335	2860	3590	2020	2020	-	8.69	
185	295	3220	3890	2540	2540	-	7.56*	

S77DRL..BF, n _e =1400 1/min								1270 Nm		
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2
		S	SF	SA	SAF					
 2										
5.5	1270	11700	11700	16000	16000	-	256.47			
6.2	1270	11700	11700	16000	16000	-	225.26			
6.5	1270	11700	11700	16000	16000	-	214.00*			
7.4	1270	11700	11700	16000	16000	-	189.09			
8.7	1260	11800	11800	16000	16000	-	161.60*			

S77DRL..BF, $n_e=1400$ 1/min**1270 Nm**

n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2
		S	SF	SA	SAF					
9.4	1240	12000	12000	16000	16000	-	148.15			
11	1210	12200	12200	16000	16000	-	130.00*			
11	1200	12300	12300	16000	16000	-	123.20*			
13	1170	12600	12600	16000	16000	-	107.83			
14	1140	12800	12800	16000	16000	-	97.14			
16	1100	13100	13100	16000	16000	-	85.22			
19	1070	12800	13300	16000	16000	-	75.20*			
19	1100	11900	13100	16000	16000	-	75.09			
20	1100	11600	13100	16000	16000	-	71.33			
21	1040	12300	13500	16000	16000	-	66.67			
22	1100	10900	12800	15100	15100	-	63.03			
25	990	11600	13300	16000	16000	-	56.92			
26	1100	10100	11900	14000	14000	-	53.87			
28	1100	9650	11500	13400	13400	-	49.38			
32	1100	9010	10800	12600	12600	-	43.33			
34	1100	8750	10500	12200	12200	-	41.07			
39	1100	8140	9840	11400	11400	-	35.94			
43	1090	7720	9390	10900	10900	-	32.38			
49	1050	7370	8960	10400	10400	-	28.41			
56	1020	7010	8550	9870	9870	-	25.07			
61	705	5960	7420	8570	8570	-	22.89			
63	980	6740	8210	9490	9490	-	22.22			
67	705	5380	6800	7790	7790	-	20.99			
74	930	6390	7800	9010	9010	-	18.97			
76	705	4550	5910	6670	6670	-	18.42			
80	710	4120	5460	6110	6110	-	17.45			
92	710	3320	4600	5030	5030	-	15.28			
102	710	2710	3950	4220	4220	-	13.76			
116	720	1800	2990	3010	3010	-	12.07			
131	720	1130	2280	2110	2110	-	10.65			
148	725	415	1030	1170	1170	-	9.44			
174	680	440	1140	1160	1160	-	8.06			

S87DRL..BF, $n_e=1400$ 1/min**2280 Nm**

n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1
		S	SF	SA	SAF					
 2										
4.9	2280	27900	26700	30000	30000	-	288.00*			
5.4	2280	27900	26700	30000	30000	-	258.18			
6.3	2280	27900	26700	30000	30000	-	222.40*			
6.9	2260	28000	26800	28900	28900	-	202.96			
7.8	2210	28100	26900	27600	27600	-	180.00*			
9.3	2150	28200	27000	25800	25800	-	151.30			
10	2100	28300	27100	25000	25000	-	139.05			
11	2060	28300	27100	23900	23900	-	123.48			
13	2000	28400	27200	22900	22900	-	110.40*			
14	1960	28500	27300	22000	22000	-	99.26			

S87DRL..BF, $n_e=1400$ 1/min								2280 Nm		
n_a rpm	M_{amax} Nm	F_{Ra} N				$\Phi_{(R)}$ °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1
		S	SF	SA	SAF					
15	1510	29100	27900	21800	21800	-	91.20*			
16	1880	28600	27400	20900	20900	-	86.15			
17	1600	29000	27800	20300	20300	-	81.76			
18	1820	28700	27500	20200	20200	-	77.14			
20	1600	29000	27800	19000	19000	-	70.43			
22	1600	29000	27800	18100	18100	-	64.27			
22	1700	28900	27700	19000	19000	-	64.00*			
25	1600	29000	27800	17100	17100	-	57.00*			
29	1600	29000	27800	15700	15700	-	47.91			
32	1600	29000	27800	15000	15000	-	44.03			
36	1600	28200	27800	14200	14200	-	39.10			
40	1600	27100	27800	13300	13300	-	34.96*			
45	1600	26000	27500	12600	12600	-	31.43			
51	1600	24700	26200	11600	11600	-	27.28			
55	1240	23400	24600	6970	6970	-	25.50*			
57	1600	23700	25200	10900	10900	-	24.43			
65	1240	21800	23100	5090	5090	-	21.43			
69	1600	22100	23500	9800	9800	-	20.27			
71	1240	21100	22400	4210	4210	-	19.70			
80	1240	20200	21400	3020	3020	-	17.49			
90	1240	19300	20300	1940	1940	-	15.64*			
100	1240	18500	19000	940	940	-	14.06			
115	1240	17400	17400	-	-	-	12.21			
128	1240	16400	16200	-	-	-	10.93			
154	1140	15900	15900	-	-	-	9.07			
178	1010	15700	16700	450	450	-	7.88			

S97DRL..BF, n _e =1400 1/min								4000 Nm			
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(/R) °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1
		S	SF	SA	SAF						
 2											
4.9	4000	33200	33200	40000	40000	-	286.40*				
5.3	4000	33200	33200	40000	40000	-	262.22				
6.0	4000	33200	33200	40000	40000	-	231.67				
7.1	4000	33200	33200	40000	40000	-	196.52				
7.7	3920	33400	33400	39300	39300	-	180.95				
8.7	3840	33500	33500	37700	37700	-	161.74				
9.6	3730	33700	33700	36300	36300	-	145.60*				
11	3650	33900	33900	35000	35000	-	131.85				
12	3510	34100	34100	33600	33600	-	116.92				
13	3440	34300	34300	32300	32300	-	105.71				
16	3240	34600	34600	30700	30700	-	89.60*				
17	3230	34600	34600	27000	27000	-	80.85				
18	3080	34800	34800	29400	29400	-	78.26				
20	3300	34500	34500	25100	25100	-	71.43				
21	2900	35100	35100	27700	27700	-	65.45				

S97DRL..BF, n _e =1400 1/min											4000 Nm	
n _a rpm	M _{amax} Nm	F _{Ra} N				Φ _(i/R) °	i	132S-D1	132S-D2 132MC-D1 160M-D1 160MC-D1	132MC-D2 160M-D2 160MC-D2 180S-D1 180M-D1 180L-D1	180S-D2 180M-D2 180L-D2 180LC-D1	
		S	SF	SA	SAF							
23	3300	34500	34500	23000	23000	-	60.59					
25	3300	34500	34500	22000	22000	-	55.79					
28	3300	34500	34500	20700	20700	-	49.87					
31	3300	34100	34500	19600	19600	-	44.89					
34	3300	32800	34500	18500	18500	-	40.65					
39	3300	31300	34500	17300	17300	-	36.05					
43	3200	30400	34600	16700	16700	-	32.60					
51	3010	29000	33000	15800	15800	-	27.63					
53	2600	26100	30300	4510	4510	-	26.39					
58	2870	28000	31800	15200	15200	-	24.13					
59	2600	24500	28200	2740	2740	-	23.59					
66	2600	22800	26300	1140	1140	-	21.23					
73	2600	21200	24500	-	-	-	19.23					
82	2570	19700	22800	-	-	-	17.05					
91	2470	19400	22500	-	-	-	15.42					
107	2330	18800	21800	-	-	-	13.07					
123	2210	18400	21300	-	-	-	11.41					
147	2040	18200	21000	-	-	-	9.55					
169	1770	18800	21700	1420	1420	-	8.26					