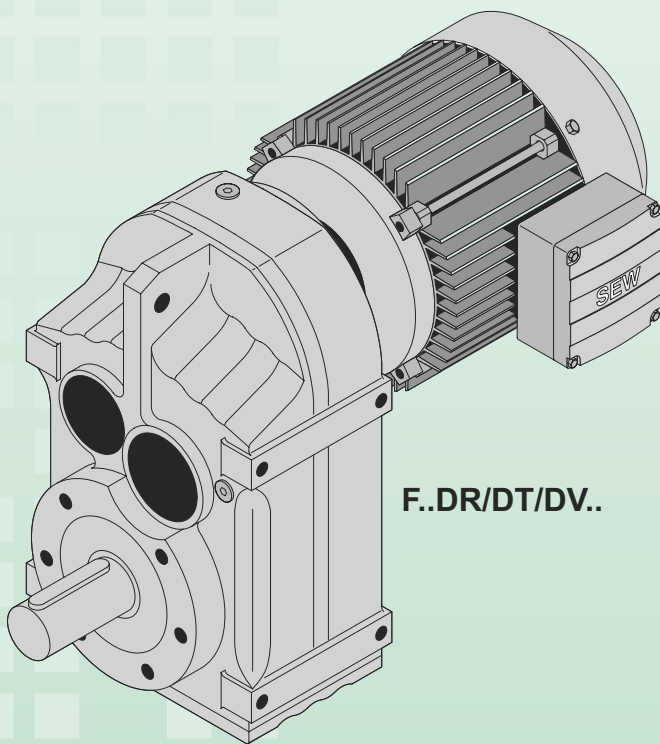




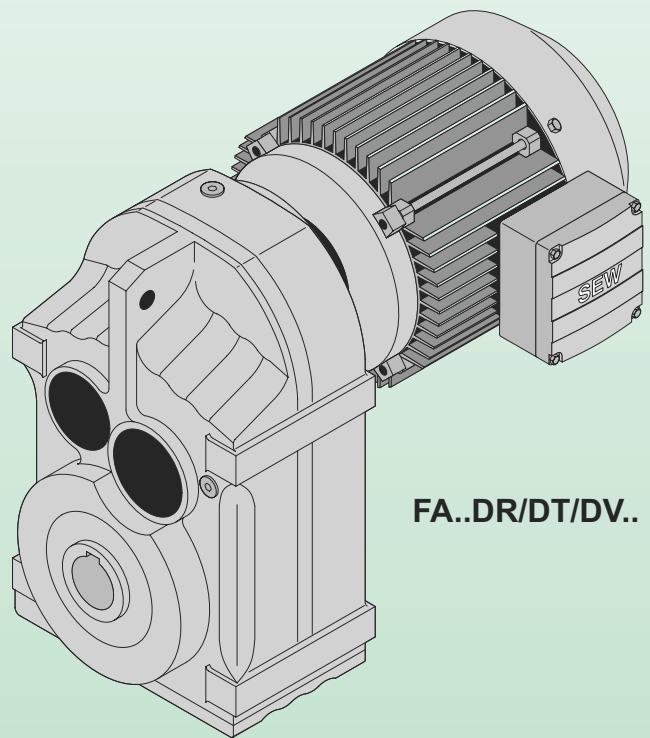
شرکت پارس گرجی صنعت

## F Series

Parallel shaft helical geared motors



F..DR/DT/DV..



FA..DR/DT/DV..

بخاطر انتخاب این محصول از شما سپاسگزاریم.

PARS GORJI SANAT CO.

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**F..DR/DT/DV**  
F.. → DR/DT/DV

F67, $n_e = 1400$ 1/min										820 Nm
$n_a$ [1/min]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]	$\varphi$ (R) [ ' ]	$i$	DR63 DT71	DT80	DT90	DV100	DV112	DV132S DV132M
3										
6.1	820	10300	6	228.99						
7.2	820	10300	6	195.39						
8.2	820	10300	6	170.85						
8.6	820	10300	6	162.31						
9.8	820	10300	6	142.40						
12	820	10300	6	120.79						
13	820	10300	6	109.04						
15	820	10300	6	95.94						
15	820	10300	6	90.59						
18	820	10300	6	79.76						
21	820	10300	6	67.65						
23	820	10300	6	61.07						
26	820	10300	6	53.73						
28	820	10300	6	50.74						
32	820	10300	6	43.20						
36	780	10700	6	39.26						
41	740	11000	6	34.01						
2										
39	820	10300	5	36.30						
44	820	10300	5	32.08						

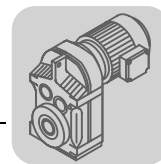
F67, $n_e = 1400$ 1/min										820 Nm
$n_a$ [1/min]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]	$\varphi$ (R) [ ' ]	$i$	DR63 DT71	DT80	DT90	DV100	DV112	DV132S DV132M
51	820	10300	5	27.41						
56	820	10300	5	25.13						
63	820	10300	5	22.05						
67	820	10300	5	20.90*						
77	820	10300	6	18.29						
85	820	10300	6	16.48						
97	820	10300	6	14.46						
110	820	10300	6	12.76						
124	820	10300	6	11.31						
145	820	10300	6	9.66						
154	530	11400	8	9.08						
163	570	10900	8	8.60						
186	610	10100	8	7.53						
206	620	9660	9	6.78						
235	610	9200	9	5.95						
267	590	8850	9	5.25						
300	560	8590	9	4.66						
353	500	8390	10	3.97						

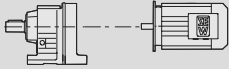


**F..DR/DT/DV**  
F.. → DR/DT/DV

F77, $n_e = 1400$ 1/min											1500 Nm
$n_a$ [1/min]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]	$\varphi$ (/R) [ ' ]	$i$	DR63 DT71	DT80	DT90	DV100	DV112	DV132S DV132M	DV132ML DV160M
3											
5.0	1500	15700	5	281.71							
5.3	1500	15700	5	262.93							
6.2	1500	15700	5	225.79							
7.1	1500	15700	5	198.31							
7.4	1500	15700	5	188.40							
8.4	1500	15700	5	166.47							
9.8	1500	15700	5	142.27							
11	1500	15700	5	130.42							
12	1500	15700	5	114.45							
13	1500	15700	5	108.46*							
15	1500	15700	5	94.93							
16	1500	15700	6	85.52							
19	1500	15700	6	75.02							
19	1500	15700	6	72.50							
21	1500	15700	6	66.46							
24	1500	15700	6	58.32							
25	1500	15700	6	55.27							
29	1500	15700	6	48.37							
32	1500	15700	6	43.58							
37	1500	15700	6	38.23							


F77, $n_e = 1400$ 1/min											1500 Nm
$n_a$ [1/min]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]	$\varphi$ (/R) [ ' ]	$i$	DR63 DT71	DT80	DT90	DV100	DV112	DV132S DV132M	DV132ML DV160M
41	1500	15700	6	33.74							
47	1500	15700	6	29.91							
55	1450	16100	6	25.54							
2											
38	1110	17900	5	36.58							
44	1380	16500	5	31.51							
49	1430	16200	5	28.75							
55	1500	15700	5	25.50*							
65	1500	15700	5	21.43							
71	1500	15700	5	19.70							
80	1500	15700	5	17.49							
90	1500	15700	5	15.64*							
100	1500	15700	5	14.06							
115	1500	14900	5	12.20							
128	1500	14200	6	10.93							
151	1080	13800	7	9.30							
169	1080	13100	7	8.26							
189	1080	12500	7	7.39							
211	1080	12000	8	6.64							
243	1080	11300	8	5.76							
271	1080	10700	8	5.16							
327	1010	10200	8	4.28							



$P_m$ [kW]	$n_a$ [1/min]	$M_a$ [Nm]	$i$	$F_{Ra}^{1)}$ [N]	SEW $f_B$		$m$ [kg]
0.12	1.6	615	851	9100	1.00		
	1.9	525	738	9750	1.15		
	2.1	455	646	10200	1.30		
	2.5	390	558	10600	1.55		
	2.7	345	506	10900	1.75		
	3.1	300	452	11100	2.0		
	3.2	310	426	11100	1.95		
	3.6	275	382	11300	2.2		
	4.2	235	330	11500	2.6		
	4.6	210	298	11500	2.9		
5.3	185	262	11500	3.2			
2.5	385	543	6100	1.05			
2.9	335	475	6740	1.20			
3.3	290	419	7150	1.40			
2.6	380	524	6190	1.05			
2.8	355	489	6530	1.15			
3.2	305	427	7020	1.30			
3.6	270	381	7310	1.50			
4.1	235	334	7550	1.70			
4.7	205	295	7740	1.95			
5.5	172	253	7910	2.3			
4.3	220	322	3990	0.90			
5.0	192	278	4410	1.05			
5.7	162	242	4750	1.25			
6.2	156	221	4820	1.30			
4.2	235	326	3710	0.85			
4.9	205	285	4250	1.00			
5.5	177	250	4590	1.15			
6.3	156	219	4820	1.30			
7.4	132	186	5040	1.50			
8.3	118	167	5140	1.70			
6.2	155	221	4500	0.85			
8.0	119	172	4500	1.10			
9.1	104	153	4500	1.25			
11	87	130	4500	1.50			
6.5	150	211	4500	0.85			
7.4	131	186	4500	1.00			
9.7	102	142	4500	1.25			
11	88	124	4500	1.45			
13	77	109	4500	1.70			
14	67	96	4500	1.95			
3.9	290	228.99	13000	2.8	FA 67	DR 63M6	32
4.6	250	195.39	13000	3.3	FAF 67	DR 63M6	38
5.3	220	170.85	13000	3.8	F 67	DR 63M6	35
5.5	205	162.31	13000	4.0	FF 67	DR 63M6	41
6.3	181	142.40	13000	4.5			
4.5	255	199.70	11400	2.4			
4.9	235	183.60	11500	2.6			
5.7	200	157.09	11500	3.0			
6.6	173	136.16	11500	3.5			
7.1	162	127.27	11500	3.7			
6.9	166	199.70	11500	3.6			
7.5	153	183.60	11500	3.9			
8.8	130	157.09	11500	4.6			
10	113	136.16	11500	5.3			
4.7	245	190.76	7510	1.65			
5.1	225	175.38	7640	1.80			
6.0	191	150.06	7820	2.1			
6.9	166	130.07	7940	2.4			
7.4	155	121.57	7990	2.6			
8.6	134	105.09	8070	3.0			
10	114	89.29	8130	3.5			
11	102	79.72	8160	3.9			

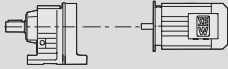


**F..DR/DT/DV**  
F..D.. [kW]

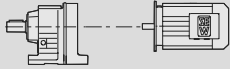
$P_m$ [kW]	$n_a$ [1/min]	$M_a$ [Nm]	$i$	$F_{Ra}^{1)}$ [N]	SEW $f_B$					$m$ [kg]
<b>0.18</b>	4.0	385	334	6100	1.05					
	4.5	340	295	6680	1.20					
	5.2	285	253	7190	1.40					
	6.1	255	217	7430	1.55					
	7.0	220	190	7650	1.80					
	7.4	205	178	7740	1.95					
	7.1	215	186	4060	0.95					
	7.9	194	167	4380	1.05					
	9.1	171	145	4660	1.15					
	10	151	129	4870	1.30					
	9.3	166	142	4500	0.80					
	11	144	124	4500	0.90					
	12	126	109	4500	1.05					
	14	110	96	4500	1.20					
	3.1	555	281.71	19600	2.7	FA	77	DR	63L6	57
	3.3	520	262.93	19700	2.9	F	77	DR	63L6	63
	3.9	445	225.79	19800	3.4	F	77	DR	63L6	60
							77	DR	63L6	71
	3.8	450	228.99	12600	1.80	FA	67	DR	63L6	33
	4.5	385	195.39	12900	2.1	DR	67	DR	63L6	39
	5.1	340	170.85	13000	2.4	F	67	DR	63L6	36
							67	DR	63L6	42
	5.8	300	228.99	13000	2.8	FA	67	DR	63M4	32
	6.8	255	195.39	13000	3.2	DR	67	DR	63M4	38
	7.7	225	170.85	13000	3.7	F	67	DR	63M4	35
							67	DR	63M4	41
	4.4	395	199.70	10600	1.50					
	4.7	365	183.60	10800	1.65					
	5.5	310	157.09	11100	1.95					
	6.4	270	136.16	11300	2.2					
	6.8	250	127.27	11400	2.4					
	7.9	215	110.01	11500	2.8					
	6.6	260	199.70	11300	2.3					
	7.2	240	183.60	11500	2.5					
	8.4	205	157.09	11500	2.9					
	9.7	177	136.16	11500	3.4					
	10	166	127.27	11500	3.6					
	4.6	375	190.76	6240	1.05					
	5.0	345	175.38	6600	1.15					
	5.8	295	150.06	7090	1.35					
	6.7	255	130.07	7410	1.55					
	7.2	240	121.57	7530	1.65					
	6.9	250	190.76	7470	1.60					
	7.5	230	175.38	7610	1.75					
	8.8	195	150.06	7800	2.1					
10	169	130.07	7920	2.4						
11	158	121.57	7970	2.5						
7.4	235	117.88	3750	0.85						
8.7	198	100.36	4320	1.00						
10	171	86.53	4660	1.15						
11	159	80.65	4790	1.25						
12	139	70.50	4970	1.45						
10	167	128.51	4700	1.20						
11	154	117.88	4850	1.30						
13	131	100.36	5050	1.55						
15	113	86.53	5180	1.75						
16	105	80.65	5230	1.90						
19	92	70.50	5300	2.2						
20	86	66.09	5330	2.3						
23	76	58.32	5380	2.6						

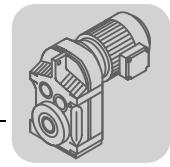


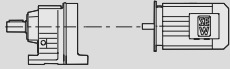
**F..DR/DT/DV**  
F..D.. [kW]

$P_m$ [kW]	$n_a$ [1/min]	$M_a$ [Nm]	$i$	$F_{Ra}^{1)}$ [N]	SEW $f_B$		$m$ [kg]
<b>0.25</b>	<b>0.67</b>	3140	1930	13500	0.95		
	<b>0.76</b>	2800	1709	23700	1.05		
	<b>0.87</b>	2450	1493	25000	1.25		
	<b>1.0</b>	2050	1300	26300	1.45		
	<b>1.1</b>	1830	1148	26900	1.65		
	<b>1.3</b>	1600	1010	27600	1.90		
	<b>1.5</b>	1420	887	28000	2.1		
	<b>1.7</b>	1230	780	28500	2.4		
	<b>1.9</b>	1050	674	28900	2.9		
	<b>1.2</b>	1740	1053	13900	0.85		
	<b>1.4</b>	1500	910	15700	1.00		
	<b>1.6</b>	1300	810	16900	1.15		
	<b>1.8</b>	1140	710	17700	1.30		
	<b>2.1</b>	1000	615	18300	1.50		
	<b>2.4</b>	880	538	18700	1.70		
	<b>2.7</b>	780	480	19000	1.95		
	<b>3.1</b>	660	413	19400	2.3		
	<b>2.3</b>	930	572	9150	0.90		
	<b>2.6</b>	810	509	10400	1.00		
	<b>3.0</b>	700	437	11200	1.15		
<b>2.6</b>	830	500	10200	1.00			
<b>2.9</b>	760	454	10800	1.10			
<b>3.3</b>	655	392	11600	1.25			
<b>3.9</b>	550	333	12200	1.50			
<b>4.4</b>	490	297	12500	1.70			
<b>5.0</b>	430	261	12700	1.90			
<b>5.5</b>	385	238	12900	2.1			
<b>3.4</b>	620	386	8830	0.95			
<b>3.9</b>	540	338	9640	1.10			
<b>5.1</b>	410	255	10500	1.45			
<b>3.4</b>	640	382	7390	0.95			
<b>3.9</b>	550	330	9570	1.10			
<b>4.4</b>	495	298	9950	1.20			
<b>5.0</b>	435	262	10300	1.35			
<b>5.8</b>	370	226	10700	1.60			
<b>6.5</b>	325	200	11000	1.85			
<b>7.7</b>	275	170	11300	2.2			
<b>5.2</b>	405	249	5880	1.00			
<b>6.0</b>	360	218	6470	1.10			
<b>6.7</b>	315	193	6920	1.25			
<b>7.5</b>	285	175	7180	1.40			
<b>5.1</b>	415	253	4980	0.95			
<b>6.0</b>	365	217	6380	1.10			
<b>6.9</b>	320	190	6900	1.25			
<b>7.3</b>	295	178	7090	1.35			
<b>8.7</b>	250	149	7480	1.60			
<b>9.9</b>	215	131	7670	1.85			
<b>8.9</b>	245	145	3420	0.80			
<b>10</b>	215	129	4040	0.90			
<b>11</b>	198	118	4320	1.00			
<b>13</b>	164	98	4740	1.20			
<b>15</b>	144	87	4940	1.40			
<b>3.1</b>	765	281.71	19100	1.95			
<b>3.4</b>	715	262.93	19200	2.1	<b>FA</b> 77	<b>DT</b> 71D6	57
<b>3.9</b>	615	225.79	19500	2.5	<b>FAF</b> 77	<b>DT</b> 71D6	64
<b>4.4</b>	540	198.31	19600	2.8	<b>F</b> 77	<b>DT</b> 71D6	61
<b>4.7</b>	510	188.40	19700	2.9	<b>FF</b> 77	<b>DT</b> 71D6	72
<b>3.8</b>	620	228.99	11800	1.30	<b>FA</b> 67	<b>DT</b> 71D6	34
<b>4.5</b>	530	195.39	12300	1.55	<b>FAF</b> 67	<b>DT</b> 71D6	41
<b>5.2</b>	465	170.85	12600	1.75	<b>F</b> 67	<b>DT</b> 71D6	37
<b>5.4</b>	440	162.31	12700	1.85	<b>FF</b> 67	<b>DT</b> 71D6	43
<b>6.2</b>	385	142.40	12900	2.1			



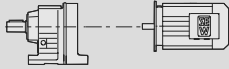
$P_m$ [kW]	$n_a$ [1/min]	$M_a$ [Nm]	$i$	$F_{Ra}^{1)}$ [N]	SEW $f_B$		$m$ [kg]
<b>0.25</b>	<b>5.7</b>	420	228.99	12700	1.95		
	<b>6.7</b>	360	195.39	13000	2.3	<b>FA</b>	<b>67</b>
	<b>7.6</b>	315	170.85	13000	2.6	<b>FAF</b>	<b>67</b>
	<b>8.0</b>	300	162.31	13000	2.8	<b>F</b>	<b>67</b>
	<b>9.1</b>	260	142.40	13000	3.1	<b>FF</b>	<b>67</b>
	<b>4.4</b>	540	199.70	9630	1.10		
	<b>4.8</b>	500	183.60	9940	1.20		
	<b>5.6</b>	425	157.09	10400	1.40		
	<b>6.5</b>	370	136.16	10800	1.60		
	<b>6.9</b>	345	127.27	10900	1.75		
	<b>8.0</b>	300	110.01	11100	2.0		
	<b>6.5</b>	365	199.70	10800	1.65		
	<b>7.1</b>	335	183.60	10900	1.80		
	<b>8.3</b>	290	157.09	11200	2.1		
	<b>9.6</b>	250	136.16	11400	2.4		
	<b>10</b>	235	127.27	11500	2.6		
	<b>12</b>	200	110.01	11500	3.0		
	<b>5.9</b>	405	150.06	5750	1.00		
	<b>6.8</b>	355	130.07	6530	1.15		
	<b>7.2</b>	330	121.57	6770	1.20		
	<b>8.4</b>	285	105.09	7190	1.40		
	<b>6.8</b>	350	190.76	6550	1.15		
	<b>7.4</b>	320	175.38	6850	1.25		
	<b>8.7</b>	275	150.06	7270	1.45		
	<b>10</b>	240	130.07	7540	1.65		
	<b>11</b>	225	121.57	7640	1.80		
	<b>12</b>	193	105.09	7810	2.1		
	<b>15</b>	164	89.29	7950	2.4		
	<b>10</b>	235	128.51	3690	0.85		
	<b>11</b>	215	117.88	4040	0.90		
	<b>13</b>	184	100.36	4500	1.10		
	<b>15</b>	159	86.53	4790	1.25		
	<b>16</b>	148	80.65	4900	1.35		
	<b>18</b>	130	70.50	5060	1.55		
	<b>20</b>	121	66.09	5120	1.65		
	<b>22</b>	107	58.32	5210	1.85		
	<b>24</b>	100	54.54	5260	2.0		
	<b>25</b>	95	51.70	5280	2.1		
	<b>28</b>	86	47.02	5330	2.3		
	<b>30</b>	81	43.83	5360	2.5		
	<b>34</b>	70	38.31	5400	2.8		
	<b>36</b>	66	35.91	5420	3.0		
	<b>41</b>	58	31.69	5450	3.4		
	<b>17</b>	142	77.21	4500	0.90		
	<b>18</b>	133	72.37	4500	1.00		
	<b>20</b>	117	63.86	4500	1.10		
	<b>23</b>	104	56.62	4500	1.25		
	<b>26</b>	92	50.19	4440	1.40		
	<b>28</b>	86	46.78	4370	1.50		
	<b>32</b>	75	40.89	4240	1.75		
	<b>34</b>	70	38.33	4180	1.85		
	<b>38</b>	62	33.83	4060	2.1		

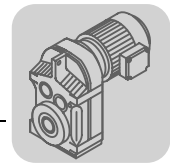


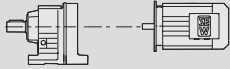
$P_m$ [kW]	$n_a$ [1/min]	$M_a$ [Nm]	$i$	$F_{Ra}^{1)}$ [N]	SEW $f_B$		$m$ [kg]	
0.37	5.4	585	255	9330	1.05			
	6.9	455	201	10200	1.30			
	7.6	415	181	10500	1.45			
	5.3	620	262	9070	0.95			
	6.1	525	226	9740	1.15			
	6.9	465	200	10200	1.30			
	8.1	395	170	10600	1.50			
	9.1	350	152	10900	1.70			
	10	310	134	11100	1.95			
	7.9	405	175	5860	1.00			
	9.4	340	147	6660	1.15			
	11	300	130	7050	1.35			
	2.5	1410	270.68	28100	2.1			
	2.7	1330	255.37	28200	2.3			
	3.0	1190	228.93	28600	2.5			
	3.5	1020	197.20	28900	2.9			
	3.3	1060	270.68	28800	2.8			
	3.5	1000	255.37	29000	3.0			
	3.9	900	228.93	29200	3.3			
	4.0	890	225.79	18700	1.70	FA 77	DT 80K6	59
	4.5	780	198.31	19100	1.95	FAF 77	DT 80K6	66
	4.8	740	188.40	19200	2.0	F 77	DT 80K6	63
	5.4	655	166.47	19400	2.3	FF 77	DT 80K6	74
	6.3	560	142.27	19600	2.7			
	4.9	720	281.71	19200	2.1	FA 77	DT 71D4	57
	5.2	675	262.93	19300	2.2	FAF 77	DT 71D4	64
	6.1	580	225.79	19500	2.6	F 77	DT 71D4	61
	7.0	510	198.31	19700	3.0	FF 77	DT 71D4	72
	4.6	765	195.39	10800	1.05	FA 67	DT 80K6	36
	5.3	670	170.85	11500	1.20	FAF 67	DT 80K6	43
	5.5	635	162.31	11700	1.30	F 67	DT 80K6	39
	6.3	560	142.40	12100	1.45	FF 67	DT 80K6	45
	7.5	475	120.79	12500	1.75			
	6.0	585	228.99	12000	1.40			
	7.1	500	195.39	12400	1.65	FA 67	DT 71D4	34
	8.1	435	170.85	12700	1.85	FAF 67	DT 71D4	41
	8.5	415	162.31	12800	1.95	F 67	DT 71D4	37
	9.7	365	142.40	12900	2.3	FF 67	DT 71D4	43
	11	310	120.79	13000	2.7			
	5.7	615	157.09	9070	0.95			
	6.6	535	136.16	9680	1.10			
	7.1	500	127.27	9930	1.20			
8.2	430	110.01	10400	1.40				
6.9	510	199.70	9850	1.15				
7.5	470	183.60	10100	1.30				
8.8	400	157.09	10600	1.50				
10	350	136.16	10900	1.70				
11	325	127.27	11000	1.85				
13	280	110.01	11200	2.1				
15	240	93.47	11500	2.5				
17	215	83.46	11500	2.8				
9.2	385	150.06	6140	1.05				
11	335	130.07	6740	1.20				
13	270	105.09	7320	1.50				
15	230	89.29	7600	1.75				
17	205	79.72	7750	1.95				
20	174	68.09	7900	2.3				
21	167	65.36	7930	2.4				





$P_m$ [kW]	$n_a$ [1/min]	$M_a$ [Nm]	$i$	$F_{Ra}^{1)}$ [N]	SEW $f_B$		$m$ [kg]
<b>0.55</b>	1.0	4630	1327	28900	0.95		
	1.2	4150	1171	30300	1.05		
	1.3	3630	1022	31800	1.20		
	1.5	3110	898	33100	1.40		
	1.7	2750	784	33900	1.55		
	2.0	2380	690	34600	1.80		
	2.2	2100	605	35200	2.1		
	2.6	1830	529	35700	2.4		
	2.9	1610	467	36100	2.7		
	3.4	1390	406	36500	3.1		
	3.7	1240	363	36700	3.5		
	1.5	3110	887	15200	0.95		
	1.7	2720	780	24000	1.10		
	2.0	2330	674	25400	1.30		
	2.2	2120	609	26100	1.40		
	2.6	1790	515	27000	1.70		
	3.0	1580	452	27600	1.90		
	3.9	1180	345	28600	2.5		
2.8	1690	480	14300	0.90			
3.3	1450	413	16100	1.05			
3.7	1290	367	17000	1.15			
4.2	1150	323	17700	1.30			
5.3	910	257	9470	0.90			
5.9	810	231	10400	1.00			
6.6	720	205	11100	1.15			
7.8	615	175	11800	1.35			
2.5	2140	276.77	35100	2.0			
2.7	1960	253.41	35500	2.2			
3.0	1730	223.88	35900	2.5			
2.5	2090	270.68	26200	1.45			
2.7	1970	255.37	26500	1.50			
3.0	1770	228.93	27100	1.70			
3.5	1520	197.20	27800	1.95			
3.3	1580	270.68	27600	1.90			
3.5	1490	255.37	27800	2.0			
3.9	1340	228.93	28200	2.3			
4.6	1150	197.20	28700	2.6			
5.0	1050	179.97	28900	2.9			
4.0	1320	225.79	16800	1.15			
4.5	1160	198.31	17600	1.30	FA 77 DT 80N6	61	
4.8	1100	188.40	17900	1.35	FAF 77 DT 80N6	68	
5.4	970	166.47	18400	1.55	F 77 DT 80N6	65	
6.3	830	142.27	18900	1.80	FF 77 DT 80N6	76	
6.9	760	130.42	19100	1.95			
6.0	870	225.79	18800	1.70			
6.9	765	198.31	19100	1.95			
7.2	730	188.40	19200	2.1			
8.2	645	166.47	19400	2.3	FA 77 DT 80K4	59	
9.6	550	142.27	19600	2.7	FAF 77 DT 80K4	66	
10	505	130.42	19700	3.0	F 77 DT 80K4	63	
12	440	114.45	19800	3.4	FF 77 DT 80K4	74	
13	420	108.46*	19800	3.6			
14	365	94.93	19900	4.1			
7.0	755	195.39	10900	1.10			
8.0	660	170.85	11500	1.25			
8.4	625	162.31	11700	1.30			
9.6	550	142.40	12200	1.50	FA 67 DT 80K4	36	
11	465	120.79	12600	1.75	FAF 67 DT 80K4	43	
12	420	109.04	12700	1.95	F 67 DT 80K4	39	
14	370	95.94	12900	2.2	FF 67 DT 80K4	45	
15	350	90.59	13000	2.3			
17	310	79.76	13000	2.7			



$P_m$ [kW]	$n_a$ [1/min]	$M_a$ [Nm]	$i$	$F_{Ra}^{1)}$ [N]	SEW $f_B$		$m$ [kg]
<b>0.75</b>	<b>0.46</b>	14000	3031	86500	0.85		
<b>0.52</b>		12600	2672	89200	0.95		
<b>0.59</b>		11100	2357	90000	1.10		
<b>0.68</b>		9540	2038	90000	1.25		
<b>0.77</b>		8310	1784	90000	1.45		
<b>0.86</b>		7450	1606	90000	1.60		
<b>0.76</b>		8470	1826	47600	0.90		
<b>0.86</b>		7530	1597	50200	1.00		
<b>0.98</b>		6580	1401	52600	1.15		
<b>1.1</b>		5770	1243	54600	1.35		
<b>1.3</b>		5130	1087	56000	1.50		
<b>1.4</b>		4410	950	57600	1.75		
<b>1.7</b>		3840	834	58700	2.0		
<b>2.2</b>		2980	640	60400	2.6		
<b>3.2</b>		2030	436	62100	3.8		
<b>1.4</b>		4900	1022	18500	0.90		
<b>1.5</b>		4230	898	30100	1.00		
<b>1.8</b>		3730	784	31500	1.15		
<b>2.0</b>		3250	690	32700	1.30		
<b>2.3</b>		2860	605	33600	1.50		
<b>2.6</b>		2490	529	34400	1.75		
<b>3.0</b>		2200	467	35000	1.95		
<b>3.4</b>		1890	406	35600	2.3		
<b>3.8</b>		1700	363	35900	2.5		
<b>2.0</b>		3170	674	11300	0.95		
<b>2.3</b>		2880	609	23400	1.05		
<b>2.7</b>		2430	515	25000	1.25		
<b>3.1</b>		2140	452	26000	1.40		
<b>4.0</b>		1610	345	27500	1.85		
<b>3.8</b>		1750	367	13800	0.85		
<b>4.3</b>		1550	323	15400	0.95		
<b>4.9</b>		1340	280	16700	1.10		
<b>2.7</b>		2640	254.40*	61100	2.9		
<b>2.5</b>		2870	276.77	33600	1.50		
<b>2.7</b>		2630	253.41	34100	1.65		
<b>3.1</b>		2320	223.88	34800	1.85		
<b>3.2</b>		2200	276.77	35000	1.95		
<b>3.6</b>		2020	253.41	35400	2.1		
<b>4.0</b>		1780	223.88	35800	2.4		
<b>3.3</b>		2150	270.68	26000	1.40		
<b>3.5</b>		2030	255.37	26300	1.50		
<b>3.9</b>		1820	228.93	27000	1.65		
<b>4.6</b>		1570	197.20	27600	1.90		
<b>5.0</b>		1430	179.97	28000	2.1		
<b>5.6</b>		1270	159.61	28400	2.4		
<b>5.1</b>		1400	270.68	28100	2.1		
<b>5.4</b>		1330	255.37	28200	2.3		
<b>6.0</b>		1190	228.93	28600	2.5		
<b>4.5</b>		1580	198.31	15200	0.95		
<b>4.8</b>		1500	188.40	15700	1.00	<b>FA</b> 77	<b>DT</b> 90S6 66
<b>5.4</b>		1320	166.47	16800	1.15	<b>FAF</b> 77	<b>DT</b> 90S6 73
<b>6.3</b>		1130	142.27	17800	1.30	<b>F</b> 77	<b>DT</b> 90S6 70
<b>6.9</b>		1040	130.42	18200	1.45	<b>FF</b> 77	<b>DT</b> 90S6 81

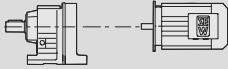


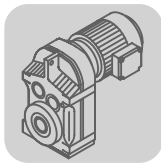
**F..DR/DT/DV**  
F..D.. [kW]

$P_m$ [kW]	$n_a$ [1/min]	$M_a$ [Nm]	$i$	$F_{Ra}^{1)}$ [N]	SEW $f_B$					$m$ [kg]
<b>0.75</b>	6.1	1170	225.79	17600	1.30	FA	77	DT	80N4	61
	7.0	1030	198.31	18200	1.45	FAF	77	DT	80N4	68
	7.3	980	188.40	18400	1.55	F	77	DT	80N4	65
						FF	77	DT	80N4	76
	8.3	860	166.47	18800	1.75	FA	77	DT	80N4	61
	9.7	740	142.27	19200	2.0	FAF	77	DT	80N4	68
	11	675	130.42	19300	2.2	F	77	DT	80N4	65
	12	595	114.45	19500	2.5	FF	77	DT	80N4	76
	13	565	108.46*	19600	2.7					
	8.1	890	170.85	9670	0.90	FA	67	DT	80N4	37
	8.5	840	162.31	10100	0.95	FAF	67	DT	80N4	44
	9.7	740	142.40	11000	1.10	F	67	DT	80N4	40
	11	625	120.79	11700	1.30	FF	67	DT	80N4	46
	13	565	109.04	12100	1.45					
	14	500	95.94	12400	1.65	FA	67	DT	80N4	37
	15	470	90.59	12500	1.75	FAF	67	DT	80N4	44
	17	415	79.76	12800	2.0	F	67	DT	80N4	40
	20	350	67.65	13000	2.3	FF	67	DT	80N4	46
	23	315	61.07	13000	2.6					
	11	660	127.27	5290	0.90					
	13	570	110.01	9420	1.05					
	15	485	93.47	10000	1.25					
	17	435	83.46	10400	1.40					
	19	380	72.98	10700	1.60					
	20	355	68.22	10800	1.70					
	23	305	58.97	11100	1.95					
	28	260	50.10	11300	2.3					
	31	230	44.73	11400	2.6					
	17	415	79.72	5060	0.95					
	20	355	68.09	6520	1.15					
	21	340	65.36	6680	1.20					
	24	295	56.49	7120	1.35					
	29	250	48.00*	7470	1.60					
	32	220	42.86	7640	1.80					
	38	190	36.61	7820	2.1					
	40	178	34.29	7850	2.3					
	48	150	28.88	7540	2.7					
	29	245	47.02	3530	0.80					
	31	230	43.83	3850	0.90					
	36	199	38.31	4310	1.00					
	38	186	35.91	4480	1.05					
	44	165	31.69	4620	1.20					
	49	146	28.09	4540	1.35					
	58	123	23.63	4400	1.65					
	67	107	20.57	4290	1.85					
	72	100	19.27	4240	2.0					
	81	88	17.03	4130	2.3					
	96	74	14.33	3970	2.7					
	107	67	12.87	3870	3.0					
	59	121	23.25	2920	1.10					
	68	105	20.15	2870	1.25					
	73	98	18.84	2850	1.35					
	85	85	16.28	2790	1.55					
	100	72	13.84	2720	1.80					
	112	64	12.35	2660	2.0					
	131	55	10.55	2580	2.4					
	140	51	9.88	2540	2.5					
	147	49	9.40	2470	2.7					
	170	42	8.13	2390	2.9					
	200	36	6.91	2310	3.2					
	224	32	6.17	2250	3.4					
	262	27	5.27	2160	3.7					
	280	26	4.93	2130	3.8					
	332	22	4.16	2030	4.0					




**F..DR/DT/DV**  
F..D.. [kW]

$P_m$ [kW]	$n_a$ [1/min]	$M_a$ [Nm]	$i$	$F_{Ra}^{1)}$ [N]	SEW $f_B$					$m$ [kg]
1.1	5.2	2030	270.68	26300	1.50					
	5.5	1920	255.37	26700	1.55					
	6.1	1720	228.93	27200	1.75					
	7.1	1480	197.20	27900	2.0					
	7.8	1350	179.97	28200	2.2					
	8.8	1200	159.61	28500	2.5					
	10	1010	134.16	29000	3.0					
	11	930	123.29	29100	3.2					
	7.1	1490	198.31	15800	1.00	FA	77	DT	90S4	66
	7.4	1410	188.40	16300	1.05	FAF	77	DT	90S4	73
	8.4	1250	166.47	17200	1.20	F	77	DT	90S4	70
	9.8	1070	142.27	18000	1.40	FF	77	DT	90S4	81
	11	980	130.42	18400	1.55					
	12	860	114.45	18800	1.75	FA	77	DT	90S4	66
	13	810	108.46*	18900	1.85	FAF	77	DT	90S4	73
	15	710	94.93	19200	2.1	F	77	DT	90S4	70
	16	640	85.52	19400	2.3	FF	77	DT	90S4	81
	19	565	75.02	19600	2.7					
	12	910	120.79	9460	0.90					
	13	820	109.04	10300	1.00					
	15	720	95.94	11100	1.15					
	15	680	90.59	11400	1.20					
	18	600	79.76	11900	1.35	FA	67	DT	90S4	42
	21	510	67.65	12400	1.60	FAF	67	DT	90S4	49
	23	460	61.07	12600	1.80	F	67	DT	90S4	45
	26	405	53.73	12800	2.0	FF	67	DT	90S4	51
	28	380	50.74	12900	2.2					
	32	325	43.20	13000	2.5					
	36	295	39.26	13000	2.7					
	41	255	34.01	13000	2.9					
	17	625	83.46	8470	0.95					
	19	550	72.98	9590	1.10					
	21	510	68.22	9840	1.15					
	24	440	58.97	10300	1.35					
	28	375	50.10	10700	1.60					
	31	335	44.73	10700	1.80					
	37	285	38.21	10400	2.1					
	39	270	35.79	10200	2.2					
	46	225	30.15	9810	2.6					
	25	425	56.49	3730	0.95					
	29	360	48.00*	6440	1.10					
	33	320	42.86	6860	1.25					
	38	275	36.61	7280	1.45					
	41	255	34.29	7260	1.55					
	48	215	28.88	7040	1.85					
	45	230	30.86	7130	1.75					
	48	220	29.32	7060	1.80					
	54	193	25.72	6880	2.1					
64	164	21.82	6640	2.4						
71	148	19.70	6490	2.7						
44	240	31.69	3660	0.85						
50	210	28.09	3970	0.95						
59	179	23.88	3930	1.10						
68	154	20.57	3870	1.30						
73	145	19.27	3840	1.40						
82	128	17.03	3780	1.55						
98	108	14.33	3680	1.85						
109	97	12.87	3610	2.1						
126	83	11.08	3500	2.3						
134	78	10.42	3460	2.4						
156	67	8.97	3350	2.6						

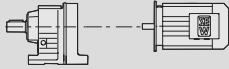


**F..DR/DT/DV**  
F..D.. [kW]

$P_m$ [kW]	$n_a$ [1/min]	$M_a$ [Nm]	$i$	$F_{Ra}^{1)}$ [N]	SEW $f_B$					$m$ [kg]
<b>1.5</b>	<b>3.3</b>	4310	276.77	29900	1.00					
	<b>3.6</b>	3950	253.41	30900	1.10					
	<b>4.1</b>	3490	223.88	32100	1.25					
	<b>4.8</b>	2960	189.92	33400	1.45					
	<b>5.3</b>	2720	174.87	33900	1.60					
	<b>5.1</b>	2810	276.77	33700	1.55					
	<b>5.6</b>	2570	253.41	34300	1.65					
	<b>6.3</b>	2270	223.88	34900	1.90					
	<b>7.4</b>	1930	189.92	35500	2.2					
	<b>8.1</b>	1780	174.87	35800	2.4					
	<b>5.2</b>	2750	270.68	23900	1.10					
	<b>5.5</b>	2590	255.37	24500	1.15					
	<b>6.2</b>	2330	228.93	25400	1.30					
	<b>7.2</b>	2000	197.20	26400	1.50					
	<b>7.8</b>	1830	179.97	26900	1.65					
	<b>8.8</b>	1620	159.61	27500	1.85					
	<b>11</b>	1360	134.16	28200	2.2					
	<b>13</b>	1110	109.49	28700	2.7					
	<b>14</b>	990	97.89	29000	3.0					
	<b>8.5</b>	1690	166.47	14300	0.90	<b>FA</b>	<b>77</b>	<b>DT</b>	<b>90L4</b>	67
	<b>9.9</b>	1450	142.27	16100	1.05	<b>FAF</b>	<b>77</b>	<b>DT</b>	<b>90L4</b>	74
	<b>11</b>	1320	130.42	16800	1.15	<b>F</b>	<b>77</b>	<b>DT</b>	<b>90L4</b>	71
	<b>12</b>	1160	114.45	17600	1.30	<b>FF</b>	<b>77</b>	<b>DT</b>	<b>90L4</b>	82
	<b>13</b>	1100	108.46*	17900	1.35					
	<b>15</b>	960	94.93	18400	1.55					
	<b>16</b>	870	85.52	18800	1.75					
	<b>19</b>	760	75.02	19100	1.95	<b>FA</b>	<b>77</b>	<b>DT</b>	<b>90L4</b>	67
	<b>19</b>	735	72.50	19200	2.0	<b>FAF</b>	<b>77</b>	<b>DT</b>	<b>90L4</b>	74
	<b>21</b>	675	66.46	19300	2.2	<b>F</b>	<b>77</b>	<b>DT</b>	<b>90L4</b>	71
	<b>24</b>	595	58.32	19500	2.5	<b>FF</b>	<b>77</b>	<b>DT</b>	<b>90L4</b>	82
	<b>26</b>	560	55.27	19600	2.7					
	<b>29</b>	490	48.37	19700	3.1					
	<b>32</b>	445	43.58	19800	3.4					
	<b>37</b>	390	38.23	19900	3.9					
	<b>39</b>	370	36.58	19900	3.0	<b>FA</b>	<b>77</b>	<b>DT</b>	<b>90L4</b>	66
	<b>45</b>	320	31.51	20000	4.3	<b>FAF</b>	<b>77</b>	<b>DT</b>	<b>90L4</b>	72
						<b>F</b>	<b>77</b>	<b>DT</b>	<b>90L4</b>	70
						<b>FF</b>	<b>77</b>	<b>DT</b>	<b>90L4</b>	80
	<b>16</b>	920	90.59	9300	0.90					
	<b>18</b>	810	79.76	10400	1.00					
	<b>21</b>	685	67.65	11400	1.20	<b>FA</b>	<b>67</b>	<b>DT</b>	<b>90L4</b>	44
	<b>23</b>	620	61.07	11800	1.30	<b>FAF</b>	<b>67</b>	<b>DT</b>	<b>90L4</b>	51
	<b>26</b>	545	53.73	12200	1.50	<b>F</b>	<b>67</b>	<b>DT</b>	<b>90L4</b>	47
	<b>28</b>	515	50.74	12300	1.60	<b>FF</b>	<b>67</b>	<b>DT</b>	<b>90L4</b>	53
	<b>33</b>	440	43.20	12700	1.85					
	<b>36</b>	400	39.26	12800	1.95					
	<b>39</b>	370	36.30	12900	2.2	<b>FA</b>	<b>67</b>	<b>DT</b>	<b>90L4</b>	43
	<b>44</b>	325	32.08	13000	2.5	<b>FAF</b>	<b>67</b>	<b>DT</b>	<b>90L4</b>	50
<b>51</b>	280	27.41	13000	2.9	<b>F</b>	<b>67</b>	<b>DT</b>	<b>90L4</b>	46	
<b>56</b>	255	25.13	13000	3.2	<b>FF</b>	<b>67</b>	<b>DT</b>	<b>90L4</b>	52	
<b>24</b>	600	58.97	9210	1.00						
<b>28</b>	510	50.10	9860	1.20						
<b>32</b>	455	44.73	9990	1.30						
<b>37</b>	390	38.21	9740	1.55						
<b>39</b>	365	35.79	9620	1.65						
<b>47</b>	305	30.15	9310	1.95						
<b>33</b>	435	42.86	575	0.90						
<b>39</b>	370	36.61	6300	1.10						
<b>41</b>	350	34.29	6580	1.15						
<b>49</b>	295	28.88	6500	1.35						

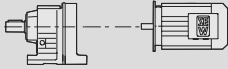


**F..DR/DT/DV**  
F..D.. [kW]

$P_m$ [kW]	$n_a$ [1/min]	$M_a$ [Nm]	$i$	$F_{Ra}^{1)}$ [N]	SEW $f_B$		$m$ [kg]	
<b>2.2</b>	2.8	7640	254.40*	49900	1.00			
	3.2	6460	215.37	52900	1.20			
	3.5	5980	199.31	54100	1.30			
	3.9	5360	178.64	55500	1.45			
	3.7	5690	254.40*	54800	1.35			
	4.4	4810	215.37	56700	1.60			
	4.7	4450	199.31	57500	1.70			
	5.3	3990	178.64	58400	1.90			
	5.5	3790	254.40*	58900	2.0			
	6.5	3210	215.37	60000	2.4			
	7.1	2970	199.31	60400	2.6			
	7.9	2660	178.64	61000	2.9			
	4.2	5000	223.88	12400	0.85			
	5.0	4240	189.92	30100	1.00			
	5.4	3910	174.87	31000	1.10			
	6.0	3490	156.30	32100	1.25			
	5.1	4120	276.77	30400	1.05			
	5.6	3780	253.41	31400	1.15			
	6.3	3340	223.88	32500	1.30			
	7.4	2830	189.92	33700	1.50			
	8.1	2610	174.87	34200	1.65			
	9.0	2330	156.30	34800	1.85			
	10	2100	140.71	35200	2.1			
	11	1900	127.42	35600	2.3			
	7.2	2940	197.20	22000	1.00			
	7.8	2680	179.97	24200	1.10			
	8.8	2380	159.61	25200	1.25			
	11	2000	134.16	26400	1.50			
	11	1840	123.29	26900	1.65			
	13	1630	109.49	27500	1.85			
	14	1460	97.89	27900	2.1			
	16	1310	88.01	28300	2.3			
	18	1140	76.39	27800	2.6			
	21	1020	68.40	27100	2.9			
	25	850	56.75	25900	3.6			
	28	750	50.36	25200	3.9			
	31	675	45.28	24500	4.2			
	12	1710	114.45	14200	0.90	FA 77	DV 100M4	74
	13	1620	108.46*	14900	0.95	FAF 77	DV 100M4	81
	15	1410	94.93	16300	1.05	F 77	DV 100M4	78
	16	1270	85.52	17100	1.20	FF 77	DV 100M4	89
	19	1120	75.02	17800	1.35			
	21	990	66.46	18300	1.50	FA 77	DV 100M4	74
	24	870	58.32	18800	1.75	FAF 77	DV 100M4	81
	26	820	55.27	18900	1.80	F 77	DV 100M4	78
	29	720	48.37	19200	2.1	FF 77	DV 100M4	89
	32	650	43.58	19400	2.3			
	39	545	36.58	19600	2.0	FA 77	DV 100M4	73
	45	470	31.51	19700	2.9	FAF 77	DV 100M4	79
	49	430	28.75	19800	3.3	F 77	DV 100M4	77
	55	380	25.50*	19900	4.0	FF 77	DV 100M4	87
	23	910	61.07	9420	0.90			
	26	800	53.73	10500	1.00	FA 67	DV 100M4	51
	28	755	50.74	10800	1.10	FAF 67	DV 100M4	58
	33	645	43.20	11600	1.25	F 67	DV 100M4	54
	36	585	39.26	12000	1.35	FF 67	DV 100M4	60
41	505	34.01	12400	1.45				
44	480	32.08	12500	1.70				
51	410	27.41	12800	2.0	FA 67	DV 100M4	50	
56	375	25.13	12900	2.2	FAF 67	DV 100M4	57	
64	330	22.05	13000	2.5	F 67	DV 100M4	53	
67	310	20.90*	13000	2.6	FF 67	DV 100M4	59	
77	275	18.29	13000	3.0				



**F..DR/DT/DV**  
F..D.. [kW]

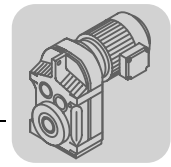
$P_m$ [kW]	$n_a$ [1/min]	$M_a$ [Nm]	$i$	$F_{Ra}^{1)}$ [N]	SEW $f_B$		$m$ [kg]	
<b>3.0</b>	3.7	7750	254.40*	49600	1.00			
	4.4	6560	215.37	52700	1.15			
	4.7	6070	199.31	53900	1.25			
	5.3	5440	178.64	55300	1.40			
	5.5	5210	254.40*	55900	1.50			
	6.5	4410	215.37	57600	1.75			
	7.0	4080	199.31	58300	1.90			
	7.8	3660	178.64	59100	2.1			
	8.7	3300	161.28*	59800	2.3			
	6.2	4580	223.88	29000	0.95			
	7.4	3890	189.92	31100	1.10			
	8.0	3580	174.87	31900	1.20			
	9.0	3200	156.30	32800	1.35			
	10	2880	140.71	33600	1.50			
	11	2610	127.42	34200	1.65			
	12	2310	112.99	34800	1.85			
	14	2090	102.16	35200	2.1			
	16	1840	89.85	35700	2.3			
	10	2750	134.16	23900	1.10			
	11	2520	123.29	24700	1.20			
	13	2240	109.49	25700	1.35			
	14	2000	97.89	26400	1.50			
	16	1800	88.01	26900	1.65			
	18	1560	76.39	26300	1.90			
	20	1400	68.40	25700	2.1			
	25	1160	56.75	24800	2.6			
	28	1030	50.36	24100	2.9			
	16	1750	85.52	13800	0.85	FA 77	DV 100L4	78
	19	1540	75.02	15500	1.00	FAF 77	DV 100L4	85
	21	1360	66.46	16600	1.10	F 77	DV 100L4	82
						FF 77	DV 100L4	93
	24	1190	58.32	17500	1.25	FA 77	DV 100L4	78
	25	1130	55.27	17800	1.35	FAF 77	DV 100L4	85
	29	990	48.37	18300	1.50	F 77	DV 100L4	82
	32	890	43.58	18700	1.70	FF 77	DV 100L4	93
	37	780	38.23	19000	1.90			
38	750	36.58	19100	1.50	FA 77	DV 100L4	77	
44	645	31.51	19400	2.1	FAF 77	DV 100L4	83	
49	590	28.75	19500	2.4	F 77	DV 100L4	81	
55	520	25.50*	19700	2.9	FF 77	DV 100L4	91	
65	440	21.43	19800	3.4				
32	880	43.20	9690	0.95	FA 67	DV 100L4	55	
36	800	39.26	10500	0.95	FAF 67	DV 100L4	62	
41	695	34.01	11300	1.05	F 67	DV 100L4	58	
					FF 67	DV 100L4	64	
44	655	32.08	11600	1.25				
51	560	27.41	12100	1.45				
56	515	25.13	12300	1.60	FA 67	DV 100L4	54	
63	450	22.05	12600	1.80	FAF 67	DV 100L4	61	
67	430	20.90*	12700	1.90	F 67	DV 100L4	57	
77	375	18.29	12900	2.2	FF 67	DV 100L4	63	
85	335	16.48	13000	2.4				
97	295	14.46	13000	2.8				
56	510	24.96	7440	1.15				
66	435	21.17	7340	1.40				
73	390	19.11	7260	1.55				
83	345	16.81	7140	1.75				
88	325	15.88	7080	1.85				
104	275	13.52	6890	2.2				
114	250	12.29	6780	2.4				
132	220	10.64	6590	2.8				

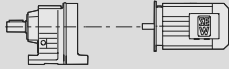


**F..DR/DT/DV**  
F..D.. [kW]

$P_m$ [kW]	$n_a$ [1/min]	$M_a$ [Nm]	$i$	$F_{Ra}^{1)}$ [N]	SEW $f_B$					$m$ [kg]
<b>4.0</b>	21	1790	66.46	13400	0.85	FA	77	DV	112M4	84
	24	1570	58.32	15200	0.95	FAF	77	DV	112M4	91
	26	1490	55.27	15800	1.00	F	77	DV	112M4	88
	29	1300	48.37	16900	1.15	FF	77	DV	112M4	99
	33	1170	43.58	17600	1.30	FA	77	DV	112M4	84
	37	1030	38.23	18200	1.45	FAF	77	DV	112M4	91
	42	910	33.74	18600	1.65	F	77	DV	112M4	88
	47	800	29.91	19000	1.85	FF	77	DV	112M4	99
	56	685	25.54	19300	2.1					
	45	850	31.51	18800	1.65	FA	77	DV	112M4	83
	49	775	28.75	19100	1.85	FAF	77	DV	112M4	89
	56	685	25.50*	19300	2.2	F	77	DV	112M4	87
	66	575	21.43	19500	2.6	FF	77	DV	112M4	97
	72	530	19.70	19600	2.8					
	52	735	27.41	11000	1.10					
	57	675	25.13	11400	1.20					
	64	595	22.05	11900	1.40					
	68	560	20.90*	12100	1.45					
	78	490	18.29	12400	1.65					
	86	445	16.48	12700	1.85					
	98	390	14.46	12900	2.1					
	111	345	12.76	13000	2.4	FA	67	DV	112M4	61
	126	305	11.31	13000	2.7	FAF	67	DV	112M4	68
	147	260	9.66	13000	3.2	F	67	DV	112M4	64
	156	245	9.08	13000	2.2	FF	67	DV	112M4	70
	165	230	8.60	12800	2.5					
	189	205	7.53	12400	3.0					
	209	183	6.78	12100	3.4					
	239	160	5.95	11700	3.8					
	270	141	5.25	11400	4.2					
	305	125	4.66	11000	4.5					
	357	107	3.97	10600	4.7					
	67	570	21.17	6490	1.05					
	74	515	19.11	6490	1.15					
	84	450	16.81	6450	1.35					
89	425	15.88	6430	1.40						
105	365	13.52	6340	1.65						
116	330	12.29	6270	1.80						
133	285	10.64	6150	2.1						
153	250	9.31	5850	1.70						
173	220	8.19	5730	1.90						
184	210	7.73	5680	2.0						
216	177	6.58	5510	2.4						
237	161	5.98	5410	2.6						
274	139	5.18	5250	3.0						
<b>5.5</b>	2.5	19400	576	95800	0.95					
	2.8	16900	503	103400	1.05					
	3.2	15100	446	107800	1.20					
	4.1	11800	353	114400	1.50					
	4.7	10300	302	116900	1.75					
	5.2	9250	273	118300	1.95					
	6.2	7810	232	120000	2.3					
	7.1	6790	202	120000	2.7					
	7.3	6620	197	120000	2.7					
	3.4	14200	418	86100	0.85					
	3.8	12700	374	89000	0.95					
	4.6	10600	312	90000	1.15					
	4.9	9950	293	90000	1.20					
	5.5	8780	259	90000	1.35					
	6.4	7580	223	90000	1.60					
	3.3	14700	428	85200	0.80					
	3.8	12900	376	88700	0.95					

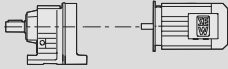


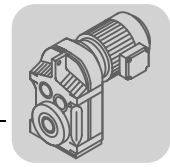


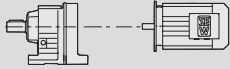
$P_m$ [kW]	$n_a$ [1/min]	$M_a$ [Nm]	$i$	$F_{Ra}^{1)}$ [N]	SEW $f_B$		$m$ [kg]
<b>5.5</b>	2.6	19800	267.43	94600	0.90		
	3.3	16100	217.62*	105500	1.10		
	4.0	13200	178.20*	111900	1.35		
	4.4	12100	162.96	114000	1.50		
	5.0	10500	141.80*	116600	1.70		
	5.7	9260	125.14	118300	1.95		
	6.5	8030	108.49	119700	2.2		
	7.4	7140	96.53*	120000	2.5		
	8.3	6350	85.80*	120000	2.8		
	9.1	5800	78.46	120000	3.1		
10	5050	68.28*	120000	3.6			
4.2	12600	170.83	89200	0.95			
4.6	11400	153.67*	90000	1.05			
5.7	9270	125.37	90000	1.30			
6.2	8460	114.34	90000	1.40			
6.6	7910	215.37	49200	0.95			
7.2	7320	199.31	50800	1.05			
8.0	6560	178.64	52700	1.15			
8.9	5920	161.28*	54200	1.30			
9.8	5380	146.49	55500	1.45			
11	4770	129.97	56800	1.60			
12	4330	117.94	57700	1.75			
14	3720	101.38*	59000	2.1			
15	3400	92.47*	59600	2.3			
16	3250	88.49	59900	2.4			
17	3080	83.99	60200	2.5			
11	4680	127.42	27400	0.90			
13	4150	112.99	30300	1.05			
14	3750	102.16	31400	1.15			
15	3580	97.58	31900	1.20			
16	3300	89.85	32600	1.30			
17	3180	86.59	32900	1.35			
18	2950	80.31	33400	1.45			
19	2780	75.63	33800	1.55			
20	2660	72.29	34100	1.60			
22	2400	65.47	34600	1.80			
25	2130	58.06	34500	2.0			
27	1930	52.49	33900	2.2			
16	3230	88.01	5760	0.95			
19	2810	76.39	21200	1.05			
21	2510	68.40	21200	1.20			
25	2080	56.75	21000	1.45			
28	1850	50.36	20800	1.60			
32	1660	45.28	20500	1.70			
36	1440	39.30	20100	1.90			
41	1290	35.19	19800	2.0			
49	1070	29.20	19100	2.3			
42	1250	33.92	19700	2.1			
50	1060	28.78	19100	2.3			
54	970	26.50	18800	3.1			
60	870	23.68	18400	3.5			
30	1780	48.37	13500	0.85			
33	1600	43.58	15000	0.95	FA 77	DV 132S4	91
37	1400	38.23	16300	1.05	FAF 77	DV 132S4	98
42	1240	33.74	17300	1.20	F 77	DV 132S4	95
48	1100	29.91	17900	1.35	FF 77	DV 132S4	105
56	940	25.54	18500	1.55			
56	940	25.50*	18500	1.60			
67	785	21.43	19000	1.90			
73	725	19.70	19200	2.1	FA 77	DV 132S4	90
82	645	17.49	19400	2.3	FAF 77	DV 132S4	96
91	575	15.64*	19600	2.6	F 77	DV 132S4	94
102	515	14.06	19300	2.9	FF 77	DV 132S4	105
117	450	12.20	18600	3.4			



**F..DR/DT/DV**  
F..D.. [kW]

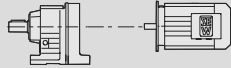
$P_m$ [kW]	$n_a$ [1/min]	$M_a$ [Nm]	$i$	$F_{Ra}^{1)}$ [N]	SEW $f_B$		$m$ [kg]	
<b>5.5</b>	65	810	22.05	10400	1.00			
	68	770	20.90*	10800	1.05			
	78	670	18.29	11500	1.20			
	87	605	16.48	11900	1.35			
	99	530	14.46	12300	1.55			
	112	470	12.76	12500	1.75			
	126	415	11.31	12800	1.95			
	148	355	9.66	12900	2.3	FA 67	DV 132S4 66	
	158	335	9.08	12400	1.60	FAF 67	DV 132S4 73	
	166	315	8.60	12300	1.80	F 67	DV 132S4 69	
	190	275	7.53	12000	2.2	FF 67	DV 132S4 75	
	211	250	6.78	11700	2.5			
	240	220	5.95	11400	2.8			
	272	193	5.25	11100	3.1			
	307	171	4.66	10700	3.3			
	360	146	3.97	10300	3.4			
		85	620	16.81	5450	0.95		
		90	585	15.88	5480	1.05		
		106	495	13.52	5530	1.20		
		116	450	12.29	5530	1.35		
134		390	10.64	5510	1.55			
175		300	8.19	5190	1.40			
185		285	7.73	5160	1.50			
217		240	6.58	5070	1.75			
239		220	5.98	5010	1.90			
276		190	5.18	4900	2.2			
<b>7.5</b>		4.6	14500	312	85500	0.85		
		4.9	13600	293	87300	0.90		
		5.5	12000	259	90000	1.00		
	6.4	10400	223	90000	1.15			
	7.2	9190	198	90000	1.30			
	3.3	21600	217.62*	87600	0.85			
	4.0	17700	178.20*	101100	1.00			
	4.4	16200	162.96	105200	1.10			
	5.1	14100	141.80*	110100	1.30			
	5.8	12400	125.14	113300	1.45			
	6.6	10800	108.49	116100	1.65			
	7.5	9600	96.53*	117800	1.85			
	8.4	8530	85.80*	119200	2.1			
	9.2	7810	78.46	120000	2.3			
	11	6790	68.28*	120000	2.7			
	12	5990	60.25	120000	3.0			
	14	5200	52.24	120000	3.5			
	15	4620	46.48*	120000	3.9			
	18	3980	40.06	120000	4.5			
		3.6	20000	267.43	94000	0.90		
		4.4	16200	217.62*	105100	1.10		
		5.4	13300	178.20*	111700	1.35		
5.9		12200	162.96	113800	1.50			
6.8		10600	141.80*	116400	1.70			
7.7		9340	125.14	118200	1.95			
8.8		8090	108.49	119700	2.2			
10		7200	96.53*	120000	2.5			
11		6400	85.80*	120000	2.8			
12		5850	78.46	120000	3.1			
14		5090	68.28*	120000	3.5			
16		4500	60.25	120000	4.0			
18		3900	52.24	119300	4.6			
	5.7	12500	125.37	89500	0.95			
	6.3	11400	114.34	90000	1.05			
	7.3	9840	98.95	90000	1.20			
	8.2	8690	87.31*	90000	1.40			
	5.6	12700	170.83	89000	0.95			
	6.2	11500	153.67*	90000	1.05			
	7.7	9350	125.37	90000	1.30			
	8.4	8530	114.34	90000	1.40			



$P_m$ [kW]	$n_a$ [1/min]	$M_a$ [Nm]	$i$	$F_{Ra}^{1)}$ [N]	SEW $f_B$		$m$ [kg]
<b>7.5</b>	<b>8.4</b>	8560	170.83	90000	1.40		
	<b>9.3</b>	7700	153.67*	90000	1.55		
	<b>11</b>	6280	125.37	90000	1.90		
	<b>8.0</b>	8950	178.64	46300	0.85		
	<b>8.9</b>	8080	161.28*	48700	0.95		
	<b>9.8</b>	7340	146.49	50700	1.05		
	<b>11</b>	6510	129.97	52800	1.20		
	<b>12</b>	5910	117.94	54200	1.30		
	<b>14</b>	5080	101.38*	56100	1.50		
	<b>15</b>	4630	92.47*	57100	1.65		
	<b>16</b>	4430	88.49	57500	1.75		
	<b>17</b>	4210	83.99	58000	1.85		
	<b>19</b>	3730	74.52	59000	2.1		
	<b>21</b>	3390	67.62	59600	2.3		
	<b>15</b>	4890	97.58	19300	0.90		
	<b>16</b>	4500	89.85	29300	0.95		
	<b>17</b>	4340	86.59	29800	1.00		
	<b>18</b>	4020	80.31	30700	1.05		
	<b>19</b>	3790	75.63	31300	1.15		
	<b>20</b>	3620	72.29	31800	1.20		
	<b>22</b>	3280	65.47	32200	1.30		
	<b>25</b>	2910	58.06	31800	1.50		
	<b>27</b>	2630	52.49	31400	1.65		
	<b>32</b>	2230	44.49	30600	1.95		
	<b>37</b>	1950	38.86	29900	2.2		
	<b>44</b>	1630	32.50	28900	2.6		
	<b>33</b>	2170	43.28	30500	1.40		
	<b>39</b>	1840	36.64	29600	1.65		
	<b>42</b>	1700	33.91	29200	2.5		
	<b>47</b>	1520	30.39	28500	2.8		
	<b>25</b>	2840	56.75	18100	1.05		
	<b>28</b>	2520	50.36	18200	1.15		
	<b>32</b>	2270	45.28	18200	1.25		
	<b>36</b>	1970	39.30	18100	1.40		
	<b>41</b>	1760	35.19	18000	1.50		
	<b>49</b>	1460	29.20	17600	1.70		
	<b>50</b>	1440	28.78	17600	1.70		
	<b>54</b>	1330	26.50	17400	2.3		
	<b>60</b>	1190	23.68	17100	2.5		
	<b>67</b>	1070	21.32*	16800	2.8		
	<b>74</b>	970	19.31	16500	3.1		
	<b>84</b>	860	17.12	16200	3.5		
	<b>92</b>	775	15.48	15900	3.9		
	<b>42</b>	1690	33.74	14300	0.90	<b>FA 77</b>	<b>DV 132M4</b> 110
	<b>48</b>	1500	29.91	15700	1.00	<b>FAF 77</b>	<b>DV 132M4</b> 120
	<b>56</b>	1280	25.54	17000	1.15	<b>F 77</b>	<b>DV 132M4</b> 115
						<b>FF 77</b>	<b>DV 132M4</b> 125
	<b>56</b>	1280	25.50*	17100	1.15		
	<b>67</b>	1070	21.43	18000	1.40		
	<b>73</b>	990	19.70	18400	1.50		
	<b>82</b>	880	17.49	18800	1.70		
	<b>91</b>	785	15.64*	19000	1.90		
	<b>102</b>	705	14.06	18600	2.1		
	<b>117</b>	610	12.20	18000	2.5	<b>FA 77</b>	<b>DV 132M4</b> 110
	<b>131</b>	545	10.93	17600	2.7	<b>FAF 77</b>	<b>DV 132M4</b> 115
	<b>154</b>	465	9.30	16500	2.3	<b>F 77</b>	<b>DV 132M4</b> 115
	<b>173</b>	415	8.26	16100	2.6	<b>FF 77</b>	<b>DV 132M4</b> 125
	<b>194</b>	370	7.39	15700	2.9		
	<b>215</b>	335	6.64	15300	3.3		
	<b>248</b>	290	5.76	14800	3.7		
	<b>277</b>	260	5.16	14500	4.2		
	<b>334</b>	215	4.28	13800	4.7		



**F..DR/DT/DV**  
F..D.. [kW]

$P_m$ [kW]	$n_a$ [1/min]	$M_a$ [Nm]	$i$	$F_{Ra}^{1)}$ [N]	SEW $f_B$		$m$ [kg]	
<b>11.0</b>	<b>42</b>	2470	33.91	26400	1.75			
	<b>47</b>	2220	30.39	26000	1.95			
	<b>52</b>	2000	27.44*	25600	2.2			
	<b>58</b>	1820	24.92	25200	2.4			
	<b>65</b>	1610	22.11	24700	2.7			
	<b>37</b>	2870	39.30	14600	0.95			
	<b>41</b>	2570	35.19	14800	1.00			
	<b>49</b>	2130	29.20	15000	1.20			
	<b>54</b>	1930	26.50	15000	1.55			
	<b>61</b>	1730	23.68	15000	1.75			
	<b>68</b>	1560	21.32*	14900	1.95			
	<b>75</b>	1410	19.31	14800	2.1			
	<b>84</b>	1250	17.12	14600	2.4			
	<b>93</b>	1130	15.48	14400	2.7			
	<b>110</b>	960	13.12*	14100	3.1			
	<b>73</b>	1440	19.70	16100	1.05			
	<b>82</b>	1280	17.49	17100	1.20			
	<b>92</b>	1140	15.64*	17600	1.30			
	<b>102</b>	1030	14.06	17400	1.45			
	<b>118</b>	890	12.20	17000	1.70			
	<b>132</b>	795	10.93	16700	1.90	<b>FA 77</b>	<b>DV 160M4</b>	125
	<b>155</b>	680	9.30	15500	1.60	<b>FAF 77</b>	<b>DV 160M4</b>	130
	<b>174</b>	605	8.26	15200	1.80	<b>F 77</b>	<b>DV 160M4</b>	130
	<b>195</b>	540	7.39	14900	2.0	<b>FF 77</b>	<b>DV 160M4</b>	140
	<b>217</b>	485	6.64	14600	2.2			
<b>250</b>	420	5.76	14200	2.6				
<b>279</b>	375	5.16	13900	2.9				
<b>336</b>	310	4.28	13300	3.2				
<b>15.0</b>	<b>6.3</b>	21200	232	89400	0.85			
	<b>7.2</b>	18500	202	98800	0.95			
	<b>7.4</b>	18000	197	100400	1.00			
	<b>6.8</b>	20900	141.80*	90400	0.85			
	<b>7.8</b>	18500	125.14	98800	0.95			
	<b>8.9</b>	16000	108.49	105700	1.10			
	<b>10</b>	14300	96.53*	109800	1.25			
	<b>11</b>	12700	85.80*	112900	1.40			
	<b>6.7</b>	21400	217.62*	88800	0.85			
	<b>8.2</b>	17500	178.20*	101800	1.05			
	<b>9.0</b>	16000	162.96	105700	1.15			
	<b>10</b>	13900	141.80*	110500	1.30			
	<b>12</b>	12300	125.14	113600	1.45			
	<b>13</b>	10600	108.49	116300	1.70			
	<b>15</b>	9470	96.53*	115800	1.90			
	<b>17</b>	8420	85.80*	113200	2.1			
	<b>19</b>	7700	78.46	111200	2.3			
	<b>21</b>	6700	68.28*	108000	2.7			
	<b>24</b>	5910	60.25	105100	3.1			
	<b>9.8</b>	14600	98.95	85300	0.80			
	<b>11</b>	12900	87.31*	88700	0.95			
	<b>13</b>	11100	75.41*	88300	1.10			
	<b>14</b>	10300	70.07	87600	1.15			
	<b>15</b>	9440	63.91	86700	1.25			
	<b>12</b>	12300	125.37	89000	1.00			
	<b>13</b>	11200	114.34	88300	1.05			
	<b>15</b>	9710	98.95	87000	1.25			
	<b>17</b>	8570	87.31*	85600	1.40			
	<b>19</b>	7400	75.41*	83800	1.60			
	<b>21</b>	6870	70.07	82800	1.75			