

REDSUN

F Parallel Shaft Helical Gear Units



Note!

1. The structure scheme, appearance diagram and other attached diagrams in sample are examples, there is no strict proportion requirement. If you need exact dimension of certain types, please contact our sales dept.. (The unmarked dimension units are mm).
2. Gear unit has been tested before delivered, users should add lubrication oil before running.
3. We can only refer to the marked oil in the mannul. Actual oil filling level should be the same with the mark on oil immersion lens.
4. Lubrication oil viscosity should be selected according to working conditions and ambient temperature.
5. To prevent accidents, all the rotation parts should be added with protective covers according to safety regulation of the nation and region.
6. The solid shaft input structure gear unit is not equipped with any motor.
7. Motors of Y series are supplied with protection grade of IP54 unless otherwise specified.
8. Unless otherwise specified, you will receive the terminal box at 0°.



Guidelines for the selection

- ❑ Gear units are designed under the circumstance of steady load, stated operating time per day and a few starting times, but the practical condition will be not as perfect as the designed circumstance. so we must confirm driven machine factor f_1 , prime mover factor f_2 , starting factor f_3 according to actual load type, operating time, starting frequency. let it less than or equal to the service factor f_b of selection table, viz $f_1 \times f_2 \times f_3 \leq f_b$. the needed torque of service machine multiply the service factor ($f_1 \times f_2 \times f_3$) should less than or equal to gear units' permissible torque.

$$\text{Viz } T_N \geq T_2 \times f_1 \times f_2 \times f_3$$

f_1 — Driven machine factor (See table 1)

f_2 — Prime mover factor (See table 2)

f_3 — Start factor (See table 3)

T_2 — The torque required by driven machine

T_N — Gear unit permissible torque (See page 03)

- ❑ We accept the orders of products of special specification, and provide our customer with exclusive design service.
- ❑ Along with the technology advanced etc., the product of the manual of RED SUN will be changed, please forgive.



Service factor:

Table 1				Driven machine factor				f1		
Driven equipment	Daily operating time with load(hour)			Driven equipment	Daily operating time with load(hour)					
	≤ 2	> 2-10	> 10		≤ 2	> 2-10	> 10			
Sewage treatment				Conveying machine						
Concentrator(Central Transmission)	-	-	1.2	Bucket conveyer	-	1.4	1.5			
Compressed filter	1.0	1.3	1.5	Winch	1.4	1.6	1.6			
Flocculator	0.8	1.0	1.3	Hoist	-	1.5	1.8			
Aerator	-	1.8	2.0	Belt conveyor≤150kW	1.0	1.2	1.3			
Collector	1.0	1.2	1.3	Belt conveyor≥150kW	1.1	1.3	1.4			
Vertical,rotary group				Elevators for goods*	-	1.2	1.5			
Blended collector	1.0	1.3	1.5	Elevators for customers*	-	1.5	1.8			
Concentrator	-	1.1	1.3	Scraper conveyor	-	1.2	1.5			
Screw pump	-	1.3	1.5	Automatic ladder	1.0	1.2	1.4			
Water wheel machine	-	-	2.0	Rail traveling mechanism	-	1.5	-			
Pump				Various frequency device	-	1.8	2.0			
Centrifugal pump	1.0	1.2	1.3	Reciprocating compressor	-	1.8	1.9			
Volume-down pump				Hoisting mechanism**						
1Piston	1.3	1.4	1.8	Rotary mechanism*		1.4	1.8			
>1Piston	1.2	1.4	1.5	Pitching mechanism		1.1	1.4			
Dredge				Traveling mechanism		1.6	2.0			
Bucket conveyer	-	1.6	1.6	Lifting mechanism		1.1	1.4			
Unloading device	-	1.3	1.5	Jibcrane		1.2	1.6			
Carterpillar traveling mechanism	1.2	1.6	1.8	Cooling tower						
Bucket digger				Cooling tower fan	-	-	2.0			
Be used for picking up	-	1.7	1.7	Fan (Shaft flow and centrifugal type)	-	1.4	1.5			
Be used for rough materials	-	2.2	2.2	Food industry						
Chopper	-	2.2	2.2	Sugar production						
Traveling mechanism*	-	1.4	1.8	Sugar-cane cutter*	-	-	1.7			
Plate blender	-	1.0	1.0	Sugar crane mill						
Chemical industry				Beet sugar production	-	-	1.7			
Extruder	-	-	1.6	Beet masher	-	-	1.2			
Paste mixer	-	1.8	1.8	Squeeze machine, mechanical refrigerator, cooking machine	-	-	1.4			
Rubber calendar	-	1.5	1.5	Beet cleaner	-	-	1.5			
Cooling cylinder	-	1.3	1.4	Beet chopper						
Material mixer,be used for				Paper-making machinery						
Uniform medium	1.0	1.3	1.4	Various kinds***	-	1.8	2.0			
Non-uniform medium	1.4	1.6	1.7	Pulper driving device	Supply goods according to customer requirements					
Blender,be used for				Centrifugal compressor	-	1.4	1.5			
Uniform density medium	1.0	1.3	1.5	Rope way cable car						
Un-uniformed medium	1.2	1.4	1.6	Delivery ropeway	-	1.3	1.4			
Un-uniformed gas absorption	1.4	1.6	1.8	Cableway of shuttle system	-	1.6	1.8			
Oven	1.0	1.3	1.5	T rod elevator	-	1.3	1.4			
Centrifugal machine	1.0	1.2	1.3	Continuous cableway	-	1.4	1.6			
Metal processing equipment				Cement industry						
Plate turnover	1.0	1.0	1.2	Concrete blender	-	1.5	1.5			
Steel pushing device	1.0	1.2	1.2	Crusher*	-	1.2	1.4			
Winding machine	-	1.6	1.6	Rotary kiln	-	-	2.0			
Cooling bed transverse frame	-	1.5	1.5	Tube mill	-	-	2.0			
Roller leveler	-	1.6	1.6	Powder concentrator	-	1.6	1.6			
Roller path				Roller press	-	-	2.0			
Continuous	-	1.5	1.5							
Interval	-	2.0	2.0							
Reversing mill	-	1.8	1.8							
Cutter										
Continuous*	-	1.5	1.5							
Crank type*	1.0	1.0	1.0							
Continuous casting driving device	-	1.4	1.4							
Rolling mill										
Reversing cogging mill	-	2.5	2.5							
Reversing plate slab mill	-	2.5	2.5							
Reversing wire mill	-	1.8	1.8							
Reversing thin plate mill	-	2.0	2.0							
Reversing middle thickness plate mill	-	1.8	1.8							
Roll gap adjusting and driving device	0.9	1.0	-							



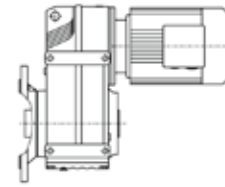
Table 1				Driven machine factor			f ₁		
Driven equipment	Daily running time with load(hour)			Driven equipment	Daily running time with load(hour)				
	≤ 2	> 2-10	> 10		≤ 2	> 2-10	> 10		
Wood industry				Plastics industry					
Barking machine				Miller, compound grinding	1.25	1.25	1.25		
Feed drive	1.25	1.25	1.50	Coating, film					
Main drive	1.75	1.75	1.75	Conveying pipe, Pulling rod, thin type					
Conveyor				Pipe type, Pile drawer	1.25	1.25	1.50		
Burner, repeating saw	1.25	1.25	1.50	Continuous mixer, Calender	1.50	1.50	1.50		
Rotary tower, transit transport	1.50	1.50	1.50	Blow film, to plasticizing					
Main loading, heavy loading	1.50	1.50	1.50	Batch mixer	1.75	1.75	1.75		
Main original wood, land base	1.75	1.75	2.00						
Conveying chain				Rubber industry					
Floor	1.50	1.50	1.50	Continuous strong inner mixer, Mix roller,					
Green-wood	1.50	1.50	1.75	Batch feeding mixer (except for double sticks)	1.50	1.50	1.50		
Cutting Chain				Refiner, calender					
Saw transmission, traction	1.50	1.50	1.75	Double roller clamp feeding and mixed miller	1.25	1.25	1.50		
Peeling barrel	1.75	1.75	2.00						
Feed drive				Batch strong inner mixer,					
Edging, wood trimmer				Double stick single groove grain stick	1.75	1.75	1.75		
Planer feed, assorting table,	1.25	1.25	1.50	Miller heater, double sticks					
Automatic incline lifting				Batch feeding mixer					
Multi-shaft feed, raw wood	1.75	1.75	1.75	Wave stick miller	2.00	2.00	2.00		
Transportation and rotation									
Transportation				Generator and exciter	1.00	1.00	1.25		
Charging tray									
Plywood lathe drive	1.50	1.50	1.75	Hammer crusher	1.75	1.75	2.00		
Conveying chain, Lifting									
				Sand miller	1.25	1.25	1.50		

⚠ Note: Determine required power P₂ of the driven equipment:
 *)Determine rated power according to maximum torque.
 **)It's necessary to check thermal capacity.

Prime mover factor

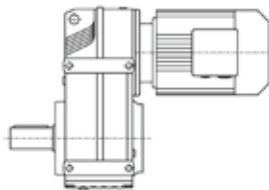
Table 2	Factor for prime mover	f ₂
Electric motors, hydraulic motors, turbines		1.0
Piston engines 4-6 cylinders		1.25
Piston engines 1-3 cylinders		1.5

Table 3	Start factor				f ₃
	f ₁ x f ₂	1	1.25	2-	≥ 3
		-1.75	2.75		
Starts per hour					
≤ 5	1	1	1	1	
6-25	1.2	1.12	1.06	1	
26-60	1.3	1.2	1.12	1.06	
61-180	1.5	1.3	1.2	1.12	
> 180	1.7	1.5	1.3	1.2	

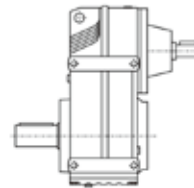


FAF Y
Flanged-mounted hollow shaft parallel shaft helical gear units

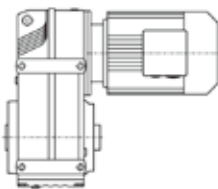
F series gear units are available in the following designs:



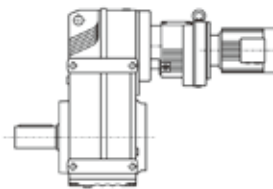
F..Y..
Foot-mounted solid shaft parallel shaft gear units



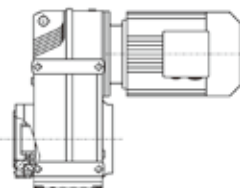
F (FF, FA, FAF, FAZ) S...
Parallel shaft helical gear units with solid shaft input



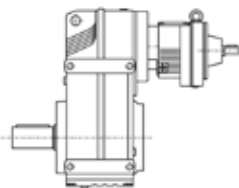
FA..Y..
Hollow shaft helical parallel shaft helical gear units



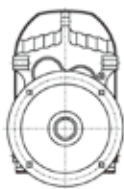
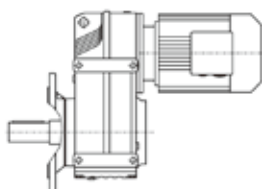
F (FF, FA, FAF, FAZ) ...R...Y...
Combi-type parallel shaft helical gear units



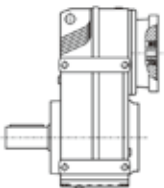
FAZ..Y..
Short-flange-mounted hollow shaft parallel shaft helical gear units



F (FF, FA, FAF, FAZ) S...R...
Combi-type parallel shaft helical gear units with solid shaft input



FF..Y..
Flange-mounted solid shaft parallel shaft helical gear units

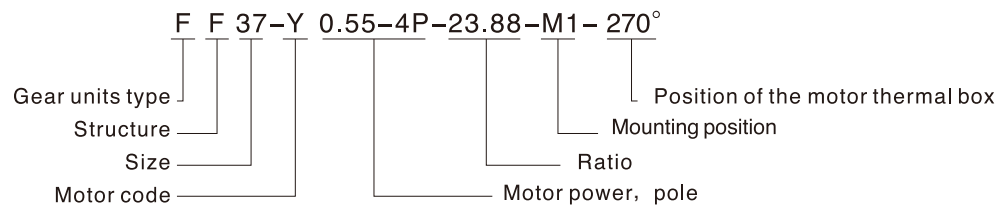


F (FF, FA, FAF, FAZ) ...Y...
Customers provide the motor by themselves need connected flange.





Type Designations:



Gear units type:
Parallel shaft helical gear units

Structure:

Foot-mounted solid shaft	(-)
Hollow shaft	A
Flange-mounted solid shaft	F
Flange-mounted hollow shaft	AF
Short-flange-mounted hollow shaft	AZ
Foot-mounted solid shaft with solid shaft input	S
Hollow shaft with solid shaft input	AS
Flange-mounted solid shaft with solid shaft input	FS
Flange-mounted hollow shaft with solid shaft input	AFS
*Hollow shaft with shrink disc	H..(H, HF, HZ, HT)

Size:
(see selection table)

Motor code:

Common motor	Y(Y2)
Flameproof motor	B
Direct current motor	Z
Brake motor	YEJ
Multi-speed motor	D
Variable frequency motor	YVP
Electromagnetic variable speed motor	YCT
Metallurgy hoisting motor	R
Transduction braking motor	YVPJ
Roller way	G

Motor power, pole :
See selection table

Ratio:
See selection table

Mounting position:
M1, M2, M3, M4, M5, M6(See page 03)

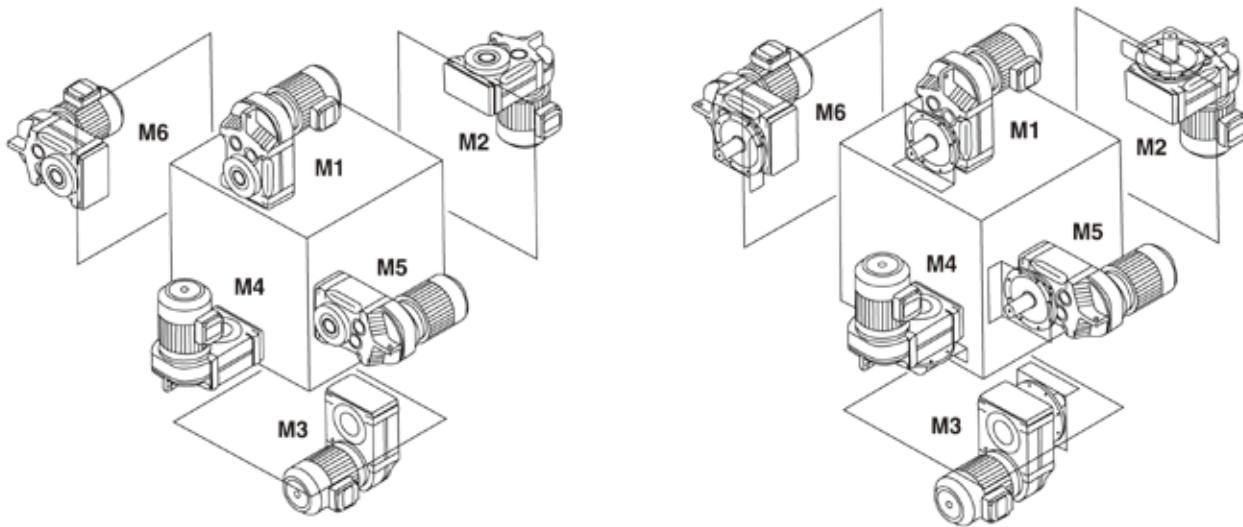
Position of the motor thermal box:
0°, 90°, 180°, 270°(See page 03)

F

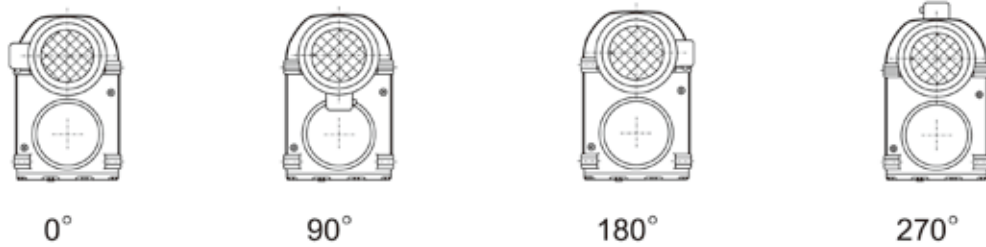
*Dimensions of hollow shaft with shrink disc, see page 34-35.



Mounting positions



Positions of motor terminal box



F

Input power rating and permissible torque

Size	37	47	57	67	77	87	97	107	127	157
Structure	F FA FF FAF FAZ									
Input power rating(kW)	0.18~3	0.18~3	0.18~5.5	0.18~5.5	0.37~11	0.75~22	1.1~30	2.2~45	7.5~90	11~200
Ratio	3.81~128.51	5.06~189.39	5.18~199.70	4.21~228.99	4.30~281.71	4.12~270.68	4.68~280.76	6.20~254.40	4.63~172.17	11.92~267.43
(n·m) Permissible torque	200	400	600	820	1500	3000	4300	7840	12000	18000

Gear unit weight

Size	37	47	57	67	77	87	97	107	127	157
(kgs) Weight	13	18	34	55	90	150	260	402	700	950

The marked weight is average value, it has no constraint force.

**Oil****F...:**

Size	Oil level (L)					
	M1	M2	M3	M4	M5	M6
F37	1	1.2	0.7	1.2	1	1.1
F47	1.5	1.8	1.1	1.9	1.5	1.7
F57	2.6	3.7	2.1	3.5	2.8	2.9
F67	2.7	3.8	1.9	3.8	2.9	3.2
F77	5	7.3	4.3	8	6	6.3
F87	10	13.0	7.7	13.8	10.8	11
F97	18.5	22.5	12.6	25.2	18.5	20
F107	24.5	32	19.5	37.5	27	27
F127	40.5	55	34	61	46.5	47
F157	69	104	63	105	86	78

FF...:

Size	Oil level (L)					
	M1	M2	M3	M4	M5	M6
FF37	1	1.2	0.7	1.3	1	1.1
FF47	1.6	1.9	1.1	1.9	1.5	1.7
FF57	2.8	3.8	2.1	3.7	2.9	3
FF67	2.7	3.8	1.9	3.8	2.9	3.2
FF77	5.1	7.3	4.3	8.1	6	6.3
FF87	10.3	13.2	7.8	14.1	11	11.2
FF97	19	22.5	12.6	25.5	18.9	20.5
FF107	25.5	32	19.5	38.5	27.5	28
FF127	41.5	56	34	63	46.5	49
FF157	72	105	64	106	87	79

FA... FAF... FAZ...:

Size	Oil level (L)					
	M1	M2	M3	M4	M5	M6
F..37	1	1.2	0.7	1.2	1	1.1
F..47	1.5	1.8	1.1	1.9	1.5	1.7
F..57	2.7	3.8	2.1	3.6	2.9	3
F..67	2.7	3.8	1.9	3.8	2.9	3.2
F..77	5	7.3	4.3	8	6	6.3
F..87	10	13.0	7.7	13.8	10.8	11
F..97	18.5	22.5	12.6	25.0	18.5	20
F..107	24.5	32	19.5	37.5	27	27
F..127	39	55	34	61	45	46.5
F..157	68	103	62	104	85	77



Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
0.18kW						0.18kW					
0.11	14324	13014	0.79			2.5	616	560	0.92		
0.12	12930	11748	0.87	FA 127R77	4	2.7	558	507	1.01		
0.14	11305	10271	1.00	FAF127R77	4	3.1	499	453	1.13		
0.16	9797	8901	1.15	F 127R77	4	3.3	469	426	1.20	FA 57R37	4
0.18	8478	7703	1.33	FF 127R77	4	3.6	426	387	1.32	FAF57R37	4
0.21	7449	6768	1.51			4.2	363	330	1.55	F 57R37	4
						4.7	328	298	1.72	FF 57R37	4
						5.3	288	262	1.96		
						6.2	249	226	2.3		
						7.0	220	200	2.6		
0.16	9408	8548	0.78			4.1	371	337	1.01		
0.18	8448	7675	0.87			4.6	331	301	1.13		
0.21	7281	6615	1.01			4.7	322	293	1.17		
0.24	6406	5820	1.15	FA 107R77	4	4.9	314	285	1.20	FA 47R17	4
0.27	5749	5223	1.28	FAF107R77	4	6.0	253	230	1.49	FAF47R17	4
0.30	5027	4567	1.47	F 107R77	4	6.1	250	227	1.50	F 47R17	4
0.39	3875	3521	1.90	FF 107R77	4	6.4	238	216	1.58	FF 47R17	4
0.46	3343	3037	2.2			7.4	207	188	1.82		
0.50	3033	2756	2.4			7.9	194	176	1.94		
0.59	2607	2369	2.8								
0.67	2276	2068	3.2			8.2	187	170	1.00	FA 37R17	4
						8.3	185	168	1.02	FAF37R17	4
						10	146	133	1.28	F 37R17	4
						11	142	129	1.32	FF 37R17	4
0.32	4815	4375	0.84								
0.35	4343	3946	0.9			3.0	536	281.71	2.6	FA 77	6
0.41	3743	3401	1.1			3.2	500	262.93	2.8	FAF77	6
0.47	3246	2949	1.2	FA 97R57	4	3.8	429	225.79	3.3	F 77	6
0.54	2851	2590	1.4	FAF97R57	4					FF 77	6
0.61	2495	2267	1.6	F 97R57	4						
0.70	2189	1989	1.8	FF 97R57	4	3.7	435	228.99	1.77	FA 67	6
0.80	1914	1739	2.1			4.4	371	195.39	2.1	FAF67	6
0.90	1697	1542	2.4			5.0	325	170.85	2.4	F 67	6
1.0	1475	1340	2.7							FF 67	6
1.2	1301	1182	3.1			6.1	266	228.99	2.9	FA 67	4
						7.1	227	195.39	3.4	FAF67	4
						8.1	199	170.85	3.9	F 67	4
										FF 67	4
0.48	3171	2881	0.9			4.3	380	199.70	1.49		
0.54	2834	2575	1.0			4.6	349	183.60	1.62	FA 57	6
0.63	2420	2199	1.2			5.4	299	157.09	1.89	FAF57	6
0.72	2124	1930	1.3	FA 87R57	4	6.2	259	136.16	2.2	F 57	6
0.81	1881	1709	1.5	FAF87R57	4	6.7	242	127.27	2.3	FF 57	6
0.93	1643	1493	1.7	F 87R57	4	7.7	209	110.01	2.7		
1.1	1431	1300	2.0	FF 87R57	4						
1.2	1264	1148	2.2			7.0	232	199.70	2.4	FA 57	4
1.4	1112	1010	2.5			7.6	213	183.60	2.6	FAF57	4
1.6	976	887	2.9			8.8	183	157.09	3.1	F 57	4
1.8	859	780	3.3			10	158	136.16	3.6	FF 57	4
						11	148	127.27	3.8		
0.8	1902	1728	0.7			4.5	360	189.39	1.0	FA 47	6
0.9	1698	1543	0.8			4.9	331	174.13	1.1	FAF47	6
1.0	1490	1354	0.9	FA 77R37	4	5.7	283	148.98	1.3	F 47	6
1.2	1316	1196	1.1	FAF77R37	4	6.6	245	129.14	1.5	FF 47	6
1.3	1156	1050	1.2	F 77R37	4	7.0	229	120.70	2.5		
1.5	998	907	1.4	FF 77R37	4						
1.7	892	810	1.6			7.3	220	189.39	1.71	FA 47	4
2.0	781	710	1.8			8.0	202	174.13	1.86	FAF47	4
2.3	660	600	2.1			9.3	173	148.98	2.2	F 47	4
						11	150	129.14	2.5	FF 47	4
						12	140	120.70	2.7		
1.6	944	858	0.82								
1.9	812	738	0.95								
2.2	689	626	1.12								
2.4	630	572	1.22								
2.8	550	500	1.40								
2.8	547	497	1.41	FA 67R37	4						
3.1	500	454	1.54	FAF67R37	4						
3.3	470	427	1.64	F 67R37	4						
3.5	431	392	1.79	FF 67R37	4						
3.8	403	366	1.91								
4.2	367	333	2.1								
4.7	327	297	2.4								
5.3	287	261	2.7								
5.8	262	238	2.9								
7.0	220	200	3.5								

F



Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
0.18kW						0.25kW					
7.2	224	117.88	0.84	FA 37	6	0.72	2950	1930	1.0		
8.5	191	100.36	0.99	FAF37	6	0.81	2613	1709	1.1		
9.8	164	86.53	1.14	F 37	6	0.93	2282	1493	1.2	FA 87R57	4
11	153	80.65	1.23	FF 37	6	1.1	1987	1300	1.4	FAF87R57	4
12	134	70.50	1.40			1.2	1755	1148	1.6	F 87R57	4
						1.4	1544	1010	1.8	FF 87R57	4
11	149	128.51	1.26			1.6	1356	887	2.1		
12	137	117.88	1.37			1.8	1192	780	2.4		
14	117	100.36	1.61			2.1	1030	674	2.7		
16	101	86.53	1.87								
17	94	80.65	2.0			1.3	1605	1050	0.88		
20	82	70.50	2.3			1.5	1387	907	1.02		
21	77	66.09	2.4			1.7	1238	810	1.14	FA 77R37	4
24	68	58.32	2.8			2.0	1085	710	1.30	FAF77R37	4
25	63	54.54	3.0			2.3	917	600	1.54	F 77R37	4
27	60	51.70	3.1			2.6	803	525	1.76	FF 77R37	4
30	55	47.02	3.4			3.0	717	469	1.97		
32	51	43.83	3.7			3.4	630	412	2.2		
36	45	38.31	4.2								
39	42	35.91	4.5	FA 37	4	2.2	980	641	0.79		
44	37	31.69	5.1	FAF37	4	2.4	874	572	0.88		
49	33	28.09	5.8	F 37	4	2.7	778	509	0.99		
58	28	23.88	6.8	FF 37	4	2.8	764	500	1.01	FA 67R37	4
59	27	23.63	6.8			3.1	694	454	1.11	FAF67R37	4
68	24	20.57	7.9			3.2	668	437	1.15	F 67R37	4
72	22	19.27	8.4			3.5	599	392	1.29	FF 67R37	4
82	20	17.03	9.5			4.2	509	333	1.51		
88	18	15.81	10.2			4.7	454	297	1.70		
97	17	14.33	11			5.3	399	261	1.93		
108	15	12.87	13			5.8	364	238	2.1		
125	13	11.08	14								
133	12	10.42	14			3.6	592	387	0.95		
155	10	8.97	16			4.2	504	330	0.97		
185	8.7	7.51	16			5.6	381	249	1.11		
204	7.9	6.81	17			3.6	584	382	1.12	FA 57R37	4
227	7.1	6.11	18			4.2	505	330	1.21	FAF57R37	4
264	6.1	5.27	19			4.7	456	298	1.24	F 57R37	4
281	5.8	4.95	20			5.3	401	262	1.48	FF 57R37	4
326	5.0	4.26	21			6.2	345	226	1.63		
						7.0	306	200	1.84		
						8.4	254	166	2.2		
0.25kW						0.25kW					
0.16	13607	8901	0.83			6.0	352	230	1.07		
0.18	11775	7703	0.96	FA 127R77	4	6.1	347	227	1.08		
0.21	10346	6768	1.09	FAF127R77	4	6.4	330	216	1.14		
0.23	9131	5973	1.24	F 127R77	4	7.2	294	192	1.28	FA 47R17	4
0.27	7760	5076	1.45	FF 127R77	4	7.4	287	188	1.31	FAF47R17	4
0.31	6827	4466	1.7			7.9	269	176	1.40	F 47R17	4
						8.0	264	173	1.42	FF 47R17	4
0.24	8897	5820	0.83			9.4	226	148	1.66		
0.27	7984	5223	0.92			11	199	130	1.89		
0.30	6982	4567	1.06								
0.40	5262	3442	1.40	FA 107R77	4	10	203	133	0.92	FA 37R17	4
0.46	4643	3037	1.59	FAF107R77	4	11	197	129	0.95	FAF37R17	4
0.50	4213	2756	1.75	F 107R77	4	12	180	118	1.04	F 37R17	4
0.59	3621	2369	2.0	FF 107R77	4	14	150	98	1.25	FF 37R17	4
0.67	3161	2068	2.3			16	133	87	1.41		
0.87	2441	1597	3.0								
0.99	2142	1401	3.4			3.0	744	281.71	1.9	FA 77	6
0.47	4508	2949	0.90			3.2	694	262.93	2.0	FAF77	6
0.54	3959	2590	1.02			3.8	596	225.79	2.4	F 77	6
0.61	3466	2267	1.17	FA 97R57	4	4.3	524	198.31	2.7	FF 77	6
0.63	3362	2199	1.20	FAF97R57	4	4.5	497	188.40	2.8		
0.80	2658	1739	1.52	F 97R57	4						
0.90	2357	1542	1.71	FF 97R57	4						
1.0	2032	1329	2.0								
1.2	1807	1182	2.2								
1.3	1578	1032	2.6								

F



Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
0.25kW						0.25kW					
3.7	605	228.99	1.3	FA 67	6	204	11	6.81	12	FA 37	4
4.4	516	195.39	1.5	FAF67	6	227	10	6.11	13	FAF37	4
5.0	451	170.85	1.7	F 67	6	264	8.5	5.27	14	F 37	4
5.2	429	162.31	1.8	FF 67	6	281	8.0	4.95	14	FF 37	4
6.0	376	142.40	2.1			326	6.9	4.26	15		
0.37kW						0.37kW					
6.1	370	228.99	2.1	FA 67	4	0.21	15312	6768	0.74		
7.1	315	195.39	2.4	FAF67	4	0.23	13514	5973	0.83	FA 127R77	4
8.1	276	170.85	2.8	F 67	4	0.27	11484	5076	0.98	FAF127R77	4
8.6	262	162.31	2.9	FF 67	4	0.31	10104	4466	1.12	F 127R77	4
9.8	230	142.40	3.4			0.36	8751	3868	1.29	FF 127R77	4
4.3	527	199.70	1.07			0.41	7699	3403	1.47		
4.6	485	183.60	1.16	FA 57	6	0.47	6758	2987	1.67		
5.4	415	157.09	1.4	FAF57	6	0.46	6871	3037	1.07	FA 107R77	4
6.2	360	136.16	1.6	F 57	6	0.50	6235	2756	1.16	FAF107R77	4
6.7	336	127.27	1.7	FF 57	6	0.59	5360	2369	1.35	F 107R77	4
7.7	290	110.01	1.9			0.67	4679	2068	1.54	FF 107R77	4
7.0	322	199.70	1.7			0.87	3613	1597	2.0		
7.6	296	183.60	1.9	FA 57	4	0.61	5129	2267	0.79		
8.8	254	157.09	2.2	FAF57	4	0.70	4505	1991	0.90		
10	220	136.16	2.6	F 57	4	0.80	3934	1739	1.03	FA 97R57	4
11	205	127.27	2.7	FF 57	4	0.90	3489	1542	1.16	FAF97R57	4
13	178	110.01	3.2			1.0	3032	1340	1.3	F 97R57	4
5.7	393	148.98	1.0	FA 47	6	1.2	2674	1182	1.5	FF 97R57	4
6.6	341	129.14	1.1	FAF47	6	1.3	2335	1032	1.7		
7.0	319	120.70	1.2	F 47	6	1.5	2052	907	2.0		
8.1	275	104.33	1.4	FF 47	6	1.1	2941	1300	1.0		
7.3	306	189.39	1.2			1.2	2597	1148	1.1		
8.0	281	174.13	1.3	FA 47	4	1.4	2285	1010	1.2	FA 87R57	4
9.3	241	148.98	1.6	FAF47	4	1.6	2007	887	1.4	FAF87R57	4
11	209	129.14	1.8	F 47	4	1.8	1765	780	1.6	F 87R57	4
12	195	120.70	1.9	FF 47	4	2.1	1525	674	1.8	FF 87R57	4
13	168	104.33	2.2			2.3	1378	609	2.0		
16	143	88.65	2.6			2.7	1165	515	2.4		
11	207	128.51	0.9			3.1	1023	452	2.8		
12	190	117.88	1.0			1.7	1833	810	0.77		
14	162	100.36	1.2			2.0	1606	710	0.88		
16	140	86.53	1.3			2.3	1357	600	1.04	FA 77R37	4
17	130	80.65	1.4			2.6	1188	525	1.19	FAF77R37	4
20	114	70.50	1.7			3.0	1061	469	1.33	F 77R37	4
21	107	66.09	1.8			3.4	932	412	1.51	FF 77R37	4
24	94	58.32	2.0			3.9	808	357	1.75		
25	88	54.54	2.1			4.4	710	314	1.98		
27	83	51.70	2.3			3.3	966	427	0.80		
30	76	47.02	2.5			3.8	828	366	0.93	FA 67R37	4
32	71	43.83	2.7			4.3	731	323	1.05	FAF67R37	4
36	62	38.31	3.0	FA 37	4	4.8	656	290	1.17	F 67R37	4
39	58	35.91	3.2	FAF37	4	5.4	581	257	1.33	FF 67R37	4
44	51	31.69	3.7	F 37	4	6.3	498	220	1.55		
49	45	28.09	4.1	FF 37	4	5.3	593	262	0.95		
58	39	23.88	4.9			5.6	563	249	1.00		
59	38	23.63	4.9			6.2	511	226	1.10		
68	33	20.57	5.7			7.0	452	200	1.25	FA 57R37	4
72	31	19.27	6.0			7.1	446	197	1.27	FAF57R37	4
82	27	17.03	6.8			7.7	410	181	1.38	F 57R37	4
88	26	15.81	7.4			8.4	376	166	1.50	FF 57R37	4
97	23	14.33	8.1			9.1	344	152	1.64		
108	21	12.87	9.0			10	303	134	1.86		
125	18	11.08	10								
133	17	10.42	10								
155	14	8.97	11								
185	12	7.51	11								

F



Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
0.37kW						0.37kW					
8.0	391	173	0.96	FA 47R17	4	32	105	43.83	1.80		
9.5	330	146	1.14	FAF47R17	4	36	92	38.31	2.1		
11	292	129	1.29	F 47R17	4	39	86	35.91	2.2		
				FF 47R17	4	44	76	31.69	2.5		
2.4	1400	271.92	2.0	FA 87	8	49	67	28.09	2.8		
2.5	1313	254.93	2.1	FAF87	8	58	57	23.88	3.3		
2.8	1177	228.57	2.4	F 87	8	59	56	23.63	3.3		
3.3	1014	196.85	2.8	FF 87	8	68	49	20.57	3.8		
						72	46	19.27	4.1		
3.1	1063	271.92	2.7	FA 87	6	82	41	17.03	4.6	FA 37	4
3.3	996	254.93	2.8	FAF87	6	88	38	15.81	5.0	FAF37	4
3.7	893	228.57	3.2	F 87	6	97	34	14.33	5.5	F 37	4
				FF 87	6	108	31	12.87	6.1	FF 37	4
3.8	882	225.79	1.6			125	26	11.08	6.7		
4.3	775	198.31	1.8	FA 77	6	133	25	10.42	7.0		
4.5	736	188.40	1.9	FAF77	6	155	21	8.97	7.6		
5.1	651	166.47	2.2	F 77	6	185	18	7.51	7.7		
6.0	556	142.27	2.5	FF 77	6	204	16	6.81	8.1		
						227	15	6.11	8.7		
4.9	673	281.71	2.1	FA 77	4	264	13	5.27	9.3		
5.3	628	262.93	2.2	FAF77	4	281	12	4.95	9.5		
6.2	540	225.79	2.6	F 77	4	326	10	4.26	10		
7.0	474	198.31	3.0	FF 77	4						
4.4	764	195.39	1.01	FA 67	6	0.55kW					
5.0	668	170.85	1.15	FAF67	6	0.22	21141	6286	0.80		
5.2	634	162.31	1.22	F 67	6	0.26	18174	5404	0.93	FA 157R97	4
6.0	556	142.40	1.4	FF 67	6	0.50	9336	2776	1.81	FAF157R97	4
7.0	472	120.79	1.6			0.57	8162	2427	2.1	F 157R97	4
						0.83	5630	1674	3.0	FF 157R97	4
6.1	547	228.99	1.41			1.1	4399	1308	3.8		
7.1	467	195.39	1.65	FA 67	4	1.2	3931	1169	4.3		
8.1	408	170.85	1.89	FAF67	4						
8.6	388	162.31	1.99	F 67	4	0.36	13009	3868	0.87	FA 127R77	4
9.8	340	142.40	2.3	FF 67	4	0.41	11445	3403	0.99	FAF127R77	4
12	289	120.79	2.7			0.47	10046	2987	1.12	F 127R77	4
										FF 127R77	4
5.4	614	157.09	0.92	FA 57	6	0.59	7967	2369	0.92		
6.2	532	136.16	1.06	FAF57	6	0.67	6955	2068	1.06		
6.7	497	127.27	1.13	F 57	6	0.76	6141	1826	1.20		
7.7	430	110.01	1.31	FF 57	6	0.87	5371	1597	1.37	FA 107R77	4
						0.99	4712	1401	1.56	FAF107R77	4
7.0	477	199.70	1.18			1.19	3921	1166	1.88	F 107R77	4
7.6	439	183.60	1.29			1.28	3656	1087	2.0	FF 107R77	4
8.8	375	157.09	1.50	FA 57	4	1.46	3195	950	2.3		
10	325	136.16	1.73	FAF57	4	1.67	2805	834	2.6		
11	304	127.27	1.85	F 57	4	2.17	2152	640	3.4		
13	263	110.01	2.1	FF 57	4						
15	223	93.47	2.5			1.04	4507	1340	0.90		
17	199	83.46	2.8			1.18	3975	1182	1.02		
						1.35	3471	1032	1.16		
9	356	148.98	1.06			1.5	3050	907	1.33	FA 97R57	4
11	309	129.14	1.22	FA 47	4	1.7	2677	796	1.5	FAF97R57	4
13	249	104.33	1.51	FAF47	4	2.0	2354	700	1.7	F 97R57	4
16	212	88.65	1.77	F 47	4	2.3	2055	611	2.0	FF 97R57	4
18	189	79.15	2.0	FF 47	4	2.6	1796	534	2.3		
21	162	67.61	2.3			2.9	1587	472	2.5		
21	155	64.89	2.4			3.4	1379	410	2.9		
						3.8	1234	367	3.3		
16	207	86.53	0.91			1.6	2983	887	0.95		
17	193	80.65	0.98			1.8	2623	780	1.08	FA 87R57	4
20	168	70.50	1.12	FA 37	4	2.1	2267	674	1.24	FAF87R57	4
21	158	66.09	1.19	FAF37	4	2.3	2048	609	1.38	F 87R57	4
24	139	58.32	1.35	F 37	4	2.7	1732	515	1.63	FF 87R57	4
25	130	54.54	1.44	FF 37	4	3.1	1520	452	1.86		
27	124	51.70	1.52			4.0	1160	345	2.4		
30	112	47.02	1.67								

F



Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
0.55kW						0.55kW					
2.6	1766	525	0.80	FA 77R37	4	21	230	64.89	1.63	FA 47	4
3.0	1577	469	0.89	FAF77R37	4	25	199	56.09	1.89	FAF47	4
3.4	1386	412	1.02	F 77R37	4	29	169	47.66	2.2	F 47	4
3.9	1201	357	1.17	FF 77R37	4	33	151	42.55	2.5	FF 47	4
4.4	1056	314	1.34								
5.4	864	257	0.89	FA 67R37	4	24	207	58.32	0.91		
6.3	740	220	1.04	FAF67R37	4	25	194	54.54	0.97		
7.1	659	196	1.17	F 67R37	4	27	184	51.70	1.02		
8.3	562	167	1.37	FF 67R37	4	30	167	47.02	1.13		
						32	156	43.83	1.21		
						36	136	38.31	1.38		
						39	128	35.91	1.47		
						44	113	31.69	1.67		
2.4	2039	276.64	1.98	FA 97	8	49	100	28.09	1.88		
2.6	1878	254.79	2.2	FAF97	8	58	85	23.88	2.2		
3.0	1668	226.34	2.4	F 97	8	59	84	23.63	2.2		
				FF 97	8	68	73	20.57	2.6		
						72	68	19.27	2.7	FA 37	4
2.5	2004	271.92	1.41	FA 87	8	82	60	17.03	3.1	FAF37	4
2.6	1875	254.93	1.50	FAF87	8	97	51	14.33	3.7	F 37	4
2.9	1684	228.57	1.67	F 87	8	108	46	12.87	4.1	FF 37	4
3.4	1450	196.85	1.94	FF 87	8	125	39	11.08	4.5		
						133	37	10.42	4.7		
3.3	1517	271.92	1.86	FA 87	6	155	32	8.97	5.1		
3.5	1422	254.93	1.98	FAF87	6	174	28	8.01	5.2		
3.9	1275	228.57	2.2	F 87	6	185	27	7.51	5.4		
4.5	1098	196.85	2.6	FF 87	6	204	24	6.81	5.6		
4.9	998	178.95	2.8			227	22	6.11	5.8		
						264	19	5.27	6.3		
3.9	1260	225.79	1.12	FA 77	6	281	18	4.95	6.4		
4.5	1106	198.31	1.27	FAF77	6	326	15	4.26	6.8		
4.7	1051	188.40	1.34	F 77	6	365	14	3.81	7.3		
5.3	929	166.47	1.52	FF 77	6						
6.2	794	142.27	1.78								
6.8	728	130.42	1.94								
6.2	802	225.79	1.76			0.75kW					
7.0	704	198.31	2.0			0.50	12731	2776	1.33	FA 157R97	4
7.4	669	188.40	2.1	FA 77	4	0.57	11130	2427	1.52	FAF157R97	4
8.3	591	166.47	2.4	FAF77	4	0.83	7677	1674	2.2	F 157R97	4
9.8	505	142.27	2.8	F 77	4	1.1	5999	1308	2.8	FF 157R97	4
11	463	130.42	3.0	FF 77	4	1.2	5361	1169	3.2		
12	407	114.45	3.5								
13	385	108.46	3.7			0.47	13699	2987	0.82		
15	337	94.93	4.2			0.52	12350	2693	0.91	FA 127R77	4
						0.59	10896	2376	1.04	FAF127R77	4
7.1	694	195.39	1.11			0.68	9420	2054	1.20	F 127R77	4
8.1	607	170.85	1.27			0.77	8246	1798	1.37	FF 127R77	4
8.6	577	162.31	1.34	FA 67	4	0.86	7425	1619	1.52		
9.8	506	142.40	1.52	FAF67	4						
12	429	120.79	1.80	F 67	4	0.76	8374	1826	0.88		
13	387	109.04	2.0	FF 67	4	0.88	7241	1597	1.02		
14	341	95.94	2.3			0.99	6425	1401	1.15	FA 107R77	4
15	322	90.59	2.4			1.1	5700	1243	1.29	FAF107R77	4
18	277	77.97	2.8			1.3	4985	1087	1.48	F 107R77	4
						1.5	4357	950	1.69	FF 107R77	4
						1.7	3825	834	1.93		
8.8	558	157.09	1.01			2.2	2875	627	2.6		
10	484	136.16	1.17			3.3	1958	427	3.8		
11	452	127.27	1.25	FA 57	4						
13	391	110.01	1.44	FAF57	4	1.3	4733	1032	0.85		
15	332	93.47	1.70	F 57	4	1.5	4160	907	0.97		
17	296	83.46	1.90	FF 57	4	1.7	3651	796	1.1	FA 97R57	4
19	260	73.16	2.2			2.0	3210	700	1.3	FAF97R57	4
20	243	68.38	2.3			2.3	2802	611	1.4	F 97R57	4
24	210	59.10	2.7			2.6	2449	534	1.7	FF 97R57	4
						2.9	2165	472	1.9		
13	371	104.33	1.01	FA 47	4	3.4	1880	410	2.1		
16	315	88.65	1.19	FAF47	4	3.8	1683	367	2.4		
18	281	79.15	1.34	F 47	4						
21	240	67.61	1.57	FF 47	4						

F



Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
0.75kW						0.75kW					
2.1	3091	674	0.91	FA 87R57	4	19	354	73.16	1.59	FA 57	4
2.3	2793	609	1.01	FAF87R57	4	20	331	68.38	1.70	FAF57	4
2.7	2362	515	1.19	F 87R57	4	24	286	59.10	1.97	F 57	4
3.1	2073	452	1.36	FF 87R57	4	28	243	50.22	2.3	FF 57	4
4.0	1582	345	1.78			31	217	44.84	2.6		
3.9	1637	357	0.86	FA 77R37	4	17	386	79.72	0.97		
4.4	1440	314	0.98	FAF77R37	4	20	330	68.09	1.14		
5.1	1247	272	1.13	F 77R37	4	21	317	65.36	1.19	FA 47	4
				FF 77R37	4	25	272	56.09	1.38	FAF47	4
						29	231	47.66	1.63	F 47	4
2.7	2519	255.25	2.9	FA 107	8	33	206	42.55	1.82	FF 47	4
				FAF107	8	38	176	36.34	2.1		
				F 107	8	41	165	34.04	2.3		
				FF 107	8	48	139	28.67	2.7		
2.5	2739	276.64	1.5	FA 97	8	30	228	47.02	0.83		
2.7	2523	254.79	1.6	FAF97	8	32	212	43.83	0.89		
3.0	2241	226.34	1.8	F 97	8	36	186	38.31	1.01		
				FF 97	8	39	174	35.91	1.08		
3.3	2047	276.64	2.0	FA 97	6	44	153	31.69	1.22		
3.6	1885	254.79	2.1	FAF97	6	49	136	28.09	1.38		
4.0	1675	226.34	2.4	F 97	6	58	116	23.88	1.63		
				FF 97	6	59	114	23.63	1.6		
3.3	2012	271.92	1.40	FA 87	6	68	100	20.57	1.9		
3.6	1886	254.93	1.50	FAF87	6	72	93	19.27	2.0	FA 37	4
4.0	1691	228.57	1.67	F 87	6	82	82	17.03	2.3	FAF37	4
4.6	1456	196.85	1.94	FF 87	6	97	69	14.33	2.7	F 37	4
5.1	1324	178.95	2.1			108	62	12.87	3.0	FF 37	4
5.7	1181	159.61	2.4			125	54	11.08	3.3		
5.1	1317	271.92	2.1	FA 87	4	133	50	10.42	3.4		
5.4	1235	254.93	2.3	FAF87	4	155	43	8.97	3.8		
6.1	1107	228.57	2.5	F 87	4	204	33	6.81	4.0		
				FF 87	4	227	30	6.11	4.3		
4.6	1467	198.31	0.96	FA 77	6	264	26	5.27	4.6		
4.8	1394	188.40	1.01	FAF77	6	281	24	4.95	4.7		
5.5	1232	166.47	1.14	F 77	6	326	21	4.26	5.0		
6.4	1053	142.27	1.34	FF 77	6	365	18	3.81	5.3		
7.0	965	130.42	1.46			1.1kW					
6.2	1094	225.79	1.29			0.50	18539	2776	0.91		
7.0	961	198.31	1.47			0.58	16208	2427	1.04		
7.4	913	188.40	1.55	FA 77	4	0.64	14592	2185	1.16		
8.3	806	166.47	1.75	FAF77	4	0.72	12982	1944	1.30	FA 157R97	4
9.8	689	142.27	2.0	F 77	4	0.84	11179	1674	1.51	FAF157R97	4
11	632	130.42	2.2	FF 77	4	1.1	8735	1308	1.94	F 157R97	4
12	554	114.45	2.5			1.2	7807	1169	2.2	FF 157R97	4
13	525	108.46	2.7			1.5	6364	953	2.7		
8.1	828	170.85	0.93			1.7	5643	845	3.0		
8.6	786	162.31	0.98			3.1	2978	446	5.7		
9.8	690	142.40	1.12			4.7	2010	301	8.4		
12	585	120.79	1.32	FA 67	4	0.68	13717	2054	0.82		
13	528	109.04	1.46	FAF67	4	0.78	12007	1798	0.94	FA 127R77	4
14	465	95.94	1.66	F 67	4	0.86	10812	1619	1.04	FAF127R77	4
15	439	90.59	1.76	FF 67	4	1.0	9356	1401	1.21	F 127R77	4
18	378	77.97	2.0			1.1	8214	1230	1.37	FF 127R77	4
21	320	66.13	2.4			1.3	7246	1085	1.56		
23	289	59.70	2.7			1.1	8301	1243	0.89		
11	616	127.27	0.91	FA 57	4	1.3	7259	1087	1.02	FA 107R77	4
13	533	110.01	1.06	FAF57	4	1.5	6344	950	1.16	FAF107R77	4
15	453	93.47	1.25	F 57	4	1.7	5570	834	1.32	F 107R77	4
17	404	83.46	1.40	FF 57	4	1.9	4915	736	1.50	FF 107R77	4
						2.2	4274	640	1.72		

F



Output Speed r/min	Output Torque Nm	Ratio i	Service Factor f _B	Type	Pole p	Output Speed r/min	Output Torque Nm	Ratio i	Service Factor f _B	Type	Pole p
1.1kW						1.1kW					
2.0	4675	700	0.86			17	589	83.46	0.96		
2.3	4080	611	0.99	FA 97R57	4	19	516	73.16	1.09		
2.6	3566	534	1.13	FAF97R57	4	20	482	68.38	1.17	FA 57	4
3.0	3152	472	1.28	F 97R57	4	24	417	59.10	1.35	FAF57	4
3.4	2738	410	1.48	FF 97R57	4	28	354	50.22	1.59	F 57	4
3.8	2451	367	1.65			31	316	44.84	1.78	FF 57	4
						37	270	38.30	2.1		
3.1	3019	452	0.93	FA 87R57	4	39	253	35.87	2.2		
4.1	2304	345	1.22	FAF87R57	4	46	213	30.22	2.6		
4.7	2003	300	1.41	F 87R57	4						
5.6	1663	249	1.70	FF 87R57	4						
						25	396	56.09	0.95		
2.7	3707	255.25	1.95	FA 107	8	29	336	47.66	1.12		
3.2	3123	215.04	2.3	FAF107	8	33	300	42.55	1.25		
3.4	2894	199.31	2.5	F 107	8	39	256	36.34	1.47	FA 47	4
3.8	2594	178.64	2.8	FF 107	8	41	240	34.04	1.57	FAF47	4
						46	216	30.64	1.74	F 47	4
3.3	3002	276.64	1.35	FA 97	6	48	205	29.11	1.83	FF 47	4
3.6	2765	254.79	1.46	FAF97	6	49	202	28.67	1.86		
4.0	2456	226.34	1.65	F 97	6	55	180	25.54	2.1		
4.8	2045	188.50	2.0	FF 97	6	65	153	21.66	2.5		
5.2	1908	175.83	2.1			72	138	19.56	2.7		
5.1	1951	276.64	2.1	FA 97	4	44	224	31.69	0.84		
5.5	1797	254.79	2.2	FAF97	4	50	198	28.09	0.95		
6.2	1596	226.34	2.5	F 97	4	59	168	23.88	1.12		
						68	145	20.57	1.30		
3.3	2951	271.92	0.96			73	136	19.27	1.38		
3.6	2766	254.93	1.02	FA 87	6	82	120	17.03	1.57		
4.0	2480	228.57	1.14	FAF87	6	98	101	14.33	1.86		
4.6	2136	196.85	1.32	F 87	6	109	91	12.87	2.1	FA 37	4
5.1	1942	178.95	1.45	FF 87	6	126	78	11.08	2.3	FAF37	4
5.7	1732	159.61	1.63			134	73	10.42	2.4	F 37	4
						156	63	8.97	2.6	FF 37	4
5.2	1911	271.92	1.48			175	56	8.01	2.7		
5.5	1798	254.93	1.57			206	48	6.81	2.8		
6.1	1612	228.57	1.75	FA 87	4	229	43	6.11	2.9		
7.1	1388	196.85	2.0	FAF87	4	266	37	5.27	3.2		
7.8	1262	178.95	2.2	F 87	4	283	35	4.95	3.2		
8.8	1126	159.61	2.5	FF 87	4	329	30	4.26	3.4		
10	946	134.16	3.0			367	27	3.81	3.7		
11	870	123.29	3.2								
						1.5kW					
7.1	1399	198.31	1.01			0.58	22102	2427	0.77		
7.4	1329	188.40	1.06			0.64	19898	2185	0.85		
8.4	1174	166.47	1.20			0.72	17703	1944	0.96		
9.8	1003	142.27	1.41	FA 77	4	0.84	15244	1674	1.11	FA 157R97	4
11	920	130.42	1.53	FAF77	4	1.1	11911	1308	1.42	FAF157R97	4
12	807	114.45	1.75	F 77	4	1.2	10646	1169	1.59	F 157R97	4
13	765	108.46	1.84	FF 77	4	1.5	8679	953	1.95	FF 157R97	4
15	670	94.93	2.1			1.7	7695	845	2.2		
16	603	85.52	2.3			3.1	4062	446	4.2		
19	529	75.02	2.7			4.7	2741	301	6.2		
12	853	120.79	0.9			0.86	14744	1619	0.77		
13	769	109.04	1.0			1.0	12758	1401	0.88	FA 127R77	4
15	677	95.94	1.1			1.1	11201	1230	1.01	FAF127R77	4
16	639	90.59	1.2			1.3	9881	1085	1.14	F 127R77	4
18	550	77.97	1.4	FA 67	4	1.5	8533	937	1.32	FF 127R77	4
21	466	66.13	1.7	FAF67	4	1.7	7531	827	1.50		
23	421	59.70	1.8	F 67	4	1.9	6675	733	1.69		
27	371	52.53	2.1	FF 67	4	2.2	5828	640	1.94		
28	350	49.60	2.2								
33	298	42.23	2.6			1.5	8651	950	0.83	FA 107R77	4
36	271	38.38	2.7			1.7	7595	834	0.95	FAF107R77	4
42	234	33.24	3.0			1.9	6702	736	1.08	F 107R77	4
						2.2	5710	627	1.26	FF 107R77	4

F



Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
1.5kW						1.5kW					
2.5	5100	560	1.42	FA 107R77	4	15	871	90.59	0.88		
2.9	4453	489	1.62	FAF107R77	4	18	750	77.97	1.03		
3.3	3889	427	1.86	F 107R77	4	21	636	66.13	1.21		
3.8	3369	370	2.1	FF 107R77	4	23	574	59.70	1.34		
2.6	4863	534	0.83	FA 97R57	4	27	505	52.53	1.53	FA 67	4
3.0	4298	472	0.94	FAF97R57	4	28	477	49.60	1.62	FAF67	4
3.4	3734	410	1.08	F 97R57	4	33	406	42.23	1.90	F 67	4
3.8	3342	367	1.21	FF 97R57	4	36	369	38.38	1.99	FF 67	4
4.1	3142	345	0.90	FA 87R57	4	39	349	36.30	2.2		
4.7	2732	300	1.03	FAF87R57	4	44	309	32.08	2.5		
5.6	2268	249	1.24	F 87R57	4	51	264	27.41	2.9		
				FF 87R57	4	56	242	25.13	3.2		
2.7	4981	255.25	1.48	FA 107	8	24	568	59.10	0.99	FA 57	4
3.2	4197	215.04	1.76	FAF107	8	28	483	50.22	1.17	FAF57	4
3.5	3890	199.31	1.89	F 107	8	31	431	44.84	1.31	F 57	4
3.9	3486	178.64	2.1	FF 107	8	37	368	38.30	1.53	FF 57	4
3.6	3736	255.25	2.0	FA 107	6	39	345	35.87	1.63		
4.3	3147	215.04	2.3	FAF107	6	46	291	30.22	1.94		
4.6	2917	199.31	2.5	F 107	6	33	409	42.55	0.92		
5.2	2615	178.64	2.8	FF 107	6	39	350	36.34	1.08		
3.3	4049	276.64	1.00	FA 97	6	41	327	34.04	1.15		
3.6	3729	254.79	1.08	FAF97	6	46	295	30.64	1.28		
4.1	3313	226.34	1.22	F 97	6	48	280	29.11	1.34	FA 47	4
4.9	2759	188.50	1.47	FF 97	6	49	276	28.67	1.36	FAF47	4
5.2	2574	178.83	1.57			55	246	25.54	1.53	F 47	4
5.1	2661	276.64	1.52	FA 97	4	65	208	21.66	1.80	FF 47	4
5.5	2451	254.79	1.65	FAF97	4	72	188	19.56	2.0		
6.2	2177	226.34	1.86	F 97	4	81	166	17.21	2.3		
7.4	1813	188.50	2.2	FF 97	4	86	156	16.25	2.4		
8.0	1691	178.83	2.4			101	133	13.83	2.8		
5.2	2615	271.92	1.08			68	198	20.57	0.95		
5.5	2452	254.93	1.15			73	185	19.27	1.01		
6.1	2198	228.57	1.28	FA 87	4	82	164	17.03	1.15		
7.1	1893	196.85	1.49	FAF87	4	98	138	14.33	1.36		
7.8	1721	178.95	1.63	F 87	4	109	124	12.87	1.52		
8.8	1535	159.61	1.84	FF 87	4	126	107	11.08	1.68	FA 37	4
10	1290	134.16	2.2			134	100	10.42	1.74	FAF37	4
13	1053	109.49	2.7			156	86	8.97	1.91	F 37	4
14	942	97.89	3.0			175	77	8.01	2.1	FF 37	4
8.4	1601	166.47	0.88			206	66	6.81	2.0		
9.8	1368	142.27	1.03			229	59	6.11	2.2		
11	1254	130.42	1.12			266	51	5.27	2.3		
12	1101	114.45	1.28			283	48	4.95	2.4		
13	1043	108.46	1.35			329	41	4.26	2.5		
15	913	94.93	1.54			367	37	3.81	2.7		
16	823	85.52	1.71	FA 77	4	2.2kW					
19	722	75.02	1.95	FAF77	4	1.00	18699	1420	0.90		
19	695	72.29	2.0	F 77	4	1.09	17224	1308	0.98		
21	637	66.28	2.2	FF 77	4	1.21	15394	1169	1.10		
24	559	58.16	2.5			1.49	12549	953	1.35		
25	530	55.12	2.7			1.68	11127	845	1.52	FA 157R97	4
29	464	48.24	3.0			1.86	10061	764	1.68	FAF157R97	4
32	418	43.46	3.0			2.1	8954	680	1.89	F 157R97	4
37	367	38.12	3.4			2.5	7585	576	2.2	FF 157R97	4
38	352	36.52	3.8			3.2	5873	446	2.9		
44	303	31.45	4.3			4.7	3964	301	4.3		
						5.2	3582	272	4.7		
						6.1	3042	231	5.6		
						7.2	2581	196	6.6		
						1.31	14288	1085	0.79	FA 127R77	4
						1.52	12339	937	0.91	FAF127R77	4
						1.72	10890	827	1.04	F 127R77	4
						1.94	9652	733	1.17	FF 127R77	4

F



Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
2.2kW						2.2kW					
2.22	8428	640	1.34	FA 127R77	4	26	767	55.12	1.84		
2.62	7137	542	1.58	FAF127R77	4	29	671	48.24	2.1	FA 77	4
2.90	6439	489	1.75	F 127R77	4	33	604	43.46	2.1	FAF77	4
3.36	5570	428	2.0	FF 127R77	4	39	509	36.52	2.3	F 77	4
						45	438	31.45	3.0	FF 77	4
2.3	8256	627	0.89			49	400	28.59	3.4		
2.5	7374	560	1.00	FA 107R77	4	56	355	25.50	4.0		
2.9	6439	489	1.14	FAF107R77	4						
3.3	5623	427	1.31	F 107R77	4	24	830	59.70	0.93		
3.9	4767	362	1.55	FF 107R77	4	27	731	52.53	1.06		
4.3	4306	327	1.71			29	690	49.60	1.12		
						34	587	42.23	1.31		
3.9	4833	367	0.84	FA 97R57	4	37	534	38.38	1.37	FA 67	4
4.9	3792	288	1.07	FAF97R57	4	43	462	33.24	1.50	FAF67	4
5.7	3253	247	1.24	F 97R57	4	44	446	32.08	1.73	F 67	4
						52	381	27.41	2.0	FF 67	4
						57	350	25.13	2.2		
2.8	7100	255.25	1.02	FA 107	8	64	307	22.05	2.5		
3.3	5982	215.04	1.21	FAF107	8	68	291	20.90	2.7		
3.6	5544	199.31	1.30	F 107	8	78	254	18.29	3.0		
4.0	4969	178.64	1.45	FF 107	8						
						32	624	44.84	0.90		
3.7	5363	255.25	1.35	FA 107	6	37	533	38.30	1.06		
4.4	4518	215.04	1.60	FAF107	6	40	499	35.87	1.13	FA 57	4
4.7	4188	199.31	1.72	F 107	6	47	420	30.22	1.32	FAF57	4
5.3	3753	178.64	1.92	FF 107	6	57	347	24.96	1.56	F 57	4
						67	294	21.17	1.92	FF 57	4
5.6	3550	255.25	2.0	FA 107	4	74	266	19.11	2.1		
6.6	2991	215.04	2.4	FAF107	4	84	234	16.81	2.4		
7.1	2772	199.31	2.6	F 107	4	89	221	15.88	2.6		
7.9	2485	178.64	2.9	FF 107	4						
						56	355	25.54	1.06		
4.2	4755	226.34	0.85	FA 97	6	66	301	21.66	1.25		
5.0	3960	188.50	1.02	FAF97	6	73	272	19.56	1.38	FA 47	4
5.3	3694	175.83	1.09	F 97	6	83	239	17.21	1.57	FAF47	4
6.0	3302	157.16	1.22	FF 97	6	87	226	16.25	1.66	F 47	4
						103	192	13.83	1.95	FF 47	4
5.1	3848	276.64	1.05			113	175	12.57	2.2		
5.6	3544	254.79	1.14			130	151	10.89	2.5		
6.3	3148	226.34	1.28	FA 97	4	156	126	9.08	2.5		
7.5	2622	188.50	1.54	FAF97	4						
8.1	2445	175.83	1.65	F 97	4	99	199	14.33	0.94		
9.0	2186	157.16	1.85	FF 97	4	110	179	12.87	1.05		
10	1968	141.47	2.1			128	154	11.08	1.16		
11	1782	128.12	2.3			136	145	10.42	1.20		
						158	125	8.97	1.32	FA 37	4
7.2	2738	196.85	1.03			177	111	8.01	1.39	FAF37	4
7.9	2489	178.95	1.13			209	95	6.81	1.43	F 37	4
8.9	2220	159.61	1.27			232	85	6.11	1.49	FF 37	4
11	1866	134.16	1.51			269	73	5.27	1.60		
12	1715	123.29	1.64	FA 87	4	287	69	4.95	1.64		
13	1523	109.49	1.85	FAF87	4	333	59	4.26	1.75		
15	1361	97.89	2.1	F 87	4	373	53	3.81	1.86		
16	1224	88.01	2.3	FF 87	4						
19	1062	76.39	2.7								
21	951	68.40	3.0								
25	789	56.75	3.6								
28	699	50.29	4.0								
31	629	45.22	4.2								
12	1592	114.45	0.89			3kW					
13	1508	108.46	0.93	FA 77	4	1.2	20991	1169	0.81		
15	1320	94.93	1.07	FAF77	4	1.5	17113	953	0.99		
17	1189	85.52	1.19	F 77	4	1.7	15173	845	1.12	FA 157R97	4
19	1043	75.02	1.35	FF 77	4	1.9	13719	764	1.23	FAF157R97	4
21	922	66.28	1.53			2.1	12211	680	1.39	F 157R97	4
24	809	58.16	1.74			2.5	10343	576	1.64	FF 157R97	4
						3.2	8009	446	2.1		
						4.7	5405	304	3.1		
						5.2	4884	272	3.5		
						6.1	4148	231	4.1		
						7.2	3520	196	4.8		

F



Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
3kW						3kW					
1.9	13162	733	0.86	FA 127R77	4	57	473	24.96	1.19		
2.2	11492	640	0.98	FAF127R77	4	67	401	21.17	1.40		
2.6	9733	542	1.16	F 127R77	4	74	362	19.11	1.56	FA 57	4
2.9	8781	489	1.28	FF 127R77	4	84	319	16.81	1.77	FAF57	4
						89	301	15.88	1.87	F 57	4
3.3	7668	427	0.96	FA 107R77	4	105	256	13.52	2.2	FF 57	4
3.9	6500	362	1.13	FAF107R77	4	116	233	12.29	2.4		
4.3	5872	327	1.26	F 107R77	4	133	202	10.64	2.8		
5.0	5118	285	1.44	FF 107R77	4						
3.8	7161	255.25	1.03	FA 107	6	73	371	19.56	1.01		
4.5	6033	215.04	1.22	FAF107	6	83	326	17.21	1.15	FA 47	4
4.8	5591	199.31	1.32	F 107	6	87	308	16.25	1.22	FAF47	4
5.4	5011	178.64	1.47	FF 107	6	103	262	13.83	1.43	F 47	4
						113	238	12.57	1.58	FF 47	4
5.6	4841	255.25	1.52	FA 107	4	130	207	10.89	1.80		
6.6	4078	215.04	1.81	FAF107	4	156	172	9.08	1.82		
7.1	3780	199.31	1.95	F 107	4						
7.9	3388	178.64	2.2	FF 107	4	128	210	11.08	0.85		
8.8	3059	161.28	2.4			136	198	10.42	0.88		
						158	170	8.97	0.97		
6.3	4293	226.34	0.94			177	152	8.01	1.02	FA 37	4
7.5	3575	188.50	1.13	FA 97	4	209	129	6.81	1.05	FAF37	4
8.1	3335	175.83	1.21	FAF97	4	232	116	6.11	1.10	F 37	4
9.0	2981	157.16	1.36	F 97	4	269	100	5.27	1.18	FF 37	4
10	2683	141.47	1.51	FF 97	4	287	94	4.95	1.20		
11	2430	128.12	1.66			333	81	4.26	1.28		
12	2155	113.61	1.88			373	72	3.81	1.37		
14	1948	102.72	2.1								
16	1721	90.77	2.3								
11	2544	134.16	1.11			4kW					
12	2338	123.29	1.21			1.7	19950	845	0.85		
13	2077	109.49	1.36			1.9	18038	764	0.94		
15	1857	97.89	1.52	FA 87	4	2.1	16055	680	1.05	FA 157R97	4
16	1669	88.01	1.69	FAF87	4	2.5	13599	576	1.24	FAF157R97	4
19	1449	76.39	1.9	F 87	4	3.2	10530	446	1.61	F 157R97	4
21	1297	68.40	2.2	FF 87	4	4.8	7107	304	2.4	FF 157R97	4
25	1076	56.75	2.6			5.3	6422	272	2.6		
28	954	50.29	2.9			6.2	5454	231	3.1		
						7.3	4628	196	3.7		
17	1622	85.52	0.87			2.7	12796	542	0.88	FA 127R77	4
19	1423	75.02	0.99			2.9	11545	489	0.98	FAF127R77	4
21	1257	66.28	1.12			3.4	9987	423	1.13	F 127R77	4
24	1103	58.16	1.28			3.9	8759	371	1.29	FF 127R77	4
26	1045	55.12	1.35	FA 77	4						
29	915	48.24	1.5	FAF77	4	4.4	7720	327	0.94	FA 107R77	4
33	824	43.46	1.54	F 77	4	5.1	6729	285	1.07	FAF107R77	4
37	723	38.12	1.71	FF 77	4	6.5	5218	221	1.38	F 107R77	4
39	694	36.52	1.95								
45	598	31.45	2.2			4.2	8594	172.33	1.31	FA 127	8
49	545	28.59	2.5			4.6	7721	154.81	1.46	FAF127	8
56	484	25.50	2.9			5.7	6269	125.71	1.80	F 127	8
66	406	21.43	3.5							FF 127	8
33	819	43.20	0.94			5.6	6365	255.25	1.16		
36	745	39.26	0.98			6.7	5363	215.04	1.37		
42	645	34.01	1.08			7.2	4970	199.31	1.48	FA 107	4
44	608	32.08	1.27	FA 67	4	8.1	4455	178.64	1.65	FAF107	4
52	520	27.41	1.48	FAF67	4	8.9	4022	161.28	1.83	F 107	4
57	477	25.13	1.62	F 67	4	9.8	3653	146.49	2.02	FF 107	4
64	418	22.05	1.84	FF 67	4	11	3241	129.97	2.3		
68	396	20.90	1.94			12	2941	117.94	2.5		
78	347	18.29	2.2			14	2528	101.38	2.9		
86	313	16.48	2.5								
98	274	14.46	2.8								

F



Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f _B	Type	p	r/min	Nm	i	f _B	Type	p
4kW						5.5kW					
8.2	4385	175.83	0.92			2.5	18699	576	0.90		
9.2	3919	157.16	1.03			2.9	16329	503	1.04		
10	3528	141.47	1.15			3.2	14479	446	1.17	FA 157R97	4
11	3195	128.12	1.27			4.1	11460	353	1.48	FAF157R97	4
13	2833	113.61	1.43	FA 97	4	4.8	9771	301	1.73	F 157R97	4
14	2561	102.72	1.58	FAF97	4	5.3	8830	272	1.92	FF 157R97	4
15	2427	97.31	1.67	F 97	4	6.2	7499	231	2.3		
16	2263	90.77	1.79	FF 97	4	7.1	6558	202	2.6		
18	2023	81.13	2.0			7.3	6363	196	2.7		
20	1821	73.03	2.2								
22	1649	66.14	2.5			3.5	13537	417	0.83		
						3.9	12109	373	0.93	FA 127R87	4
13	2730	109.49	1.03			4.6	10129	312	1.11	FAF127R87	4
15	2441	97.89	1.16			4.9	9512	293	1.19	F 127R87	4
16	2195	88.01	1.28	FA 87	4	5.5	8505	262	1.33	FF 127R87	4
19	1905	76.39	1.48	FAF87	4	6.4	7337	226	1.54		
21	1706	68.40	1.65	F 87	4						
25	1415	56.75	1.99	FF 87	4	3.4	13732	423	0.82	FA 127R77	4
29	1254	50.29	2.2			3.9	12044	371	0.94	FAF127R77	4
32	1128	45.22	2.5							F 127R77	4
										FF 127R77	4
22	1653	66.28	0.85			2.7	18293	266.76	0.92		
25	1450	58.16	0.97			3.3	14977	218.40	1.1		
26	1374	55.12	1.03			4.0	12149	177.17	1.4		
30	1203	48.24	1.17			4.4	11269	164.33	1.5	FA 157	8
33	1084	43.46	1.30			5.1	9724	141.80	1.7	FAF157	8
38	951	38.12	1.48	FA 77	4	5.8	8581	125.14	2.0	F 157	8
43	839	33.64	1.68	FAF77	4	6.6	7440	108.49	2.3	FF 157	8
48	744	29.82	1.90	F 77	4	7.5	6619	96.53	2.6		
50	717	28.59	1.97	FF 77	4	8.3	5959	86.90	2.8		
56	636	25.50	2.2			9.1	5450	79.47	3.1		
57	635	25.47	2.2			10	4742	69.15	3.6		
67	534	21.43	2.6								
73	491	19.70	2.9			4.2	11817	172.33	0.95	FA 127	8
						4.7	10616	154.81	1.06	FAF127	8
53	683	27.41	1.13			5.7	8620	125.71	1.31	F 127	8
57	627	25.13	1.23			6.2	7555	116.00	1.42	FF 127	8
65	550	22.05	1.40								
69	521	20.90	1.48			6.7	7373	215.04	0.98		
79	456	18.29	1.69			7.2	6834	199.31	1.06	FA 107	4
87	411	16.48	1.88			8.1	6125	178.64	1.18	FAF107	4
100	361	14.46	2.1	FA 67	4	8.9	5530	161.28	1.31	F 107	4
113	318	12.76	2.4	FAF67	4	9.8	5023	146.49	1.44	FF 107	4
127	282	11.31	2.7	F 67	4	11	4456	129.97	1.62		
149	241	9.66	3.2	FF 67	4						
150	240	9.61	2.1			12	4044	117.94	1.79		
158	227	9.11	2.4			14	3476	101.38	2.1	FA 107	4
181	199	7.97	2.9			16	3171	92.47	2.3	FAF107	4
201	179	7.18	3.3			16	3034	88.49	2.4	F 107	4
229	157	6.30	3.6			17	2880	83.99	2.5	FF 107	4
259	139	5.56	4.0								
292	123	4.93	4.3			11	4393	128.12	0.92		
342	105	4.21	4.5			13	3895	113.61	1.04		
						14	3522	102.72	1.15		
68	528	21.17	1.07			15	3336	97.31	1.21		
75	477	19.11	1.18			16	3112	90.77	1.30	FA 97	4
86	419	16.81	1.35			17	2985	87.06	1.35	FAF97	4
91	396	15.88	1.42			18	2782	81.13	1.45	F 97	4
107	337	13.52	1.67			19	2620	76.40	1.54	FF 97	4
117	306	12.29	1.84	FA 57	4	21	2504	73.03	1.68		
135	265	10.64	2.1	FAF57	4	22	2268	66.14	1.78		
155	232	9.31	1.70	F 57	4	25	2011	58.65	2.0		
176	204	8.19	1.93	FF 57	4	27	1818	53.03	2.2		
186	193	7.73	2.0								
219	164	6.58	2.4			16	3018	88.01	0.93	FA 87	4
241	149	5.98	2.6			19	2619	76.39	1.08	FAF87	4
278	129	5.18	3.0			21	2345	68.40	1.20	F 87	4
						25	1946	56.75	1.45	FF 87	4

F



Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
5.5kW						7.5kW					
29	1724	50.29	1.64			8.4	8023	85.80	2.1		
32	1550	45.22	1.82			9.2	7337	78.46	2.3	FA 157	8
37	1346	39.25	2.1	FA 87	4	10.5	6385	68.28	2.7	FAF157	8
41	1205	35.14	2.3	FAF87	4	12	5634	60.25	3.0	F 157	8
49	1000	29.16	2.8	F 87	4	13.8	4885	52.24	3.5	FF 157	8
42	1170	34.11	2.1	FF 87	4	15.5	4346	46.48	3.9		
51	974	28.41	2.4			18	3746	40.06	4.5		
54	909	26.50	3.1								
61	812	23.68	3.5			3.6	18709	266.76	0.90		
						4.4	15317	218.40	1.11		
30	1654	48.24	0.85			5.4	12425	177.17	1.36		
33	1490	43.46	0.95			5.8	11525	164.33	1.47		
38	1307	38.12	1.08			6.8	9945	141.80	1.70	FA 157	6
43	1153	33.64	1.22			7.7	8776	125.14	1.93	FAF157	6
48	1022	29.82	1.38	FA 77	4	8.8	7609	108.49	2.2	F 157	6
56	874	25.50	1.61	FAF77	4	9.9	6770	96.53	2.5	FF 157	6
57	873	25.47	1.61	F 77	4	11	6095	86.90	2.8		
67	735	21.43	1.92	FF 77	4	12	5573	79.47	3.0		
73	675	19.70	2.1			14	4850	69.15	3.5		
82	600	17.49	2.4			16	4280	61.02	4.0		
92	536	15.64	2.6			18	3711	52.91	4.6		
102	482	14.06	2.9								
118	418	12.20	3.4			5.7	11816	126.36	0.95	FA 127	8
						6.2	10776	115.24	1.05	FAF127	8
65	756	22.05	1.02			7.2	9326	99.73	1.21	F 127	8
69	717	20.9	1.08			8.2	8229	88.00	1.37	FF 127	8
79	627	18.29	1.23								
87	565	16.48	1.36			5.6	12086	172.33	0.93	FA 127	6
100	496	14.46	1.50			6.2	10857	154.81	1.04	FAF127	6
113	438	12.76	1.55	FA 67	4	7.6	8816	125.71	1.28	F 127	6
127	388	11.31	1.70	FAF67	4	8.3	8135	116.00	1.39	FF 127	6
149	331	9.66	1.76	F 67	4						
150	329	9.61	2.0	FF 67	4	8.5	7947	172.33	1.42	FA 127	4
158	312	9.11	2.1			9.4	7139	154.81	1.58	FAF127	4
181	273	7.97	2.3			12	5797	125.71	1.95	F 127	4
201	246	7.18	2.4								
229	216	6.30	2.7			8.2	8238	178.64	0.88		
259	191	5.56	2.9			9.1	7437	161.28	0.97		
292	169	4.93	3.1			10	6755	146.49	1.07		
342	144	4.21	3.3			11	5994	129.97	1.20	FA 107	4
						12	5439	117.94	1.33	FAF107	4
86	576	16.81	0.98			14	4675	101.38	1.54	F 107	4
91	544	15.88	1.04			16	4264	92.47	1.69	FF 107	4
107	464	13.52	1.22			16	4081	88.49	1.77		
117	421	12.29	1.34	FA 57	4	17	3873	83.99	1.86		
135	365	10.64	1.55	FAF57	4	20	3436	74.52	2.1		
176	281	8.19	1.41	F 57	4	22	3118	67.62	2.3		
186	265	7.73	1.49	FF 57	4						
219	226	6.58	1.75			15	4487	97.31	0.90		
241	205	5.98	1.93			16	4186	90.77	0.97		
278	178	5.18	2.2			17	4015	87.06	1.01		
						18	3741	81.13	1.08		
						19	3523	76.40	1.15		
						21	3229	70.03	1.25	FA 97	4
						22	3050	66.14	1.33	FAF97	4
						25	2705	58.65	1.49	F 97	4
						28	2445	53.03	1.65	FF 97	4
						32	2072	44.94	1.95		
						33	2023	43.87	2.0		
						37	1810	39.26	2.2		
						40	1704	36.96	2.4		
						43	1580	34.26	2.6		
						44	1514	32.83	2.7		
						48	1416	30.70	2.9		
7.5kW											
4.6	13812	312	0.82	FA 127R87	4						
4.9	12971	293	0.87	FAF127R87	4						
5.5	11598	262	0.97	F 127R87	4						
6.4	10005	226	1.13	FF 127R87	4						
7.2	8854	200	1.27								
3.3	20350	217.62	0.83								
4.0	16664	178.20	1.02	FA 157	8						
4.4	15238	162.96	1.11	FAF157	8						
5.1	13260	141.80	1.28	F 157	8						
5.8	11702	125.14	1.45	FF 157	8						
6.6	10145	108.49	1.67								
7.5	9027	96.53	1.87								

F



Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f_B	Type	p	r/min	Nm	i	f_B	Type	p
7.5kW						11kW					
26	2617	56.75	1.08			15	6529	96.53	2.6	FA 157	4
29	2319	50.29	1.19			17	5877	86.90	2.9	FAF157	4
32	2085	45.22	1.27			18	5375	79.47	3.1	F 157	4
37	1810	39.25	1.41			21	4677	69.15	3.6	FF 157	4
42	1620	35.14	1.51			7.7	12864	125.71	0.88	FA 127	6
50	1345	29.16	1.75	FA 87	4	8.4	11732	116.00	0.96	FAF127	6
51	1327	28.41	1.74	FAF87	4	10	10153	99.73	1.11	F 127	6
55	1222	26.50	2.3	F 87	4	11	8958	88.00	1.26	FF 127	6
62	1092	23.68	2.6	FF 87	4	13	7737	76.00	1.46		
68	983	21.32	2.9			8.5	11656	172.33	0.97		
76	890	19.31	3.2			9.4	10471	154.81	1.08		
85	789	17.12	3.6			12	8502	125.71	1.33	FA 127	4
94	714	15.48	4.0			13	7846	116.00	1.44	FAF127	4
43	1551	33.64	0.91			15	6745	99.73	1.67	F 127	4
49	1375	29.82	1.03			17	5952	88.00	1.90	FF 127	4
57	1176	25.50	1.16			19	5140	76.00	2.2		
57	1175	25.47	1.20			12	7977	117.94	0.91		
68	988	21.43	1.43			14	6857	101.38	1.05		
74	908	19.70	1.55			16	6254	92.47	1.15		
83	807	17.49	1.75			17	5681	83.99	1.27		
93	721	15.64	1.95	FA 77	4	20	5040	74.52	1.43	FA 107	4
104	648	14.06	2.2	FAF77	4	22	4573	67.62	1.58	FAF107	4
120	563	12.20	2.5	F 77	4	25	3931	58.12	1.84	F 107	4
134	504	10.93	2.8	FF 77	4	29	3431	50.73	2.1	FF 107	4
156	431	9.35	2.4			34	2910	43.03	2.5		
176	383	8.30	2.7			43	2285	33.78	3.2		
197	342	7.42	3.0			53	1855	27.43	3.9		
219	308	6.67	3.3			58	1712	25.31	4.2		
252	267	5.79	3.8			22	4473	66.14	0.90		
281	239	5.19	4.2			25	3967	58.65	1.02		
340	198	4.30	4.8			28	3587	53.03	1.13		
11kW						11kW					
4.9	19275	301	0.88	FA 157R97	4	32	3040	44.94	1.33		
5.4	17418	272	0.97	FAF157R97	4	37	2655	39.26	1.52	FA 97	4
6.3	14793	231	1.14	F 157R97	4	43	2317	34.26	1.74	FAF97	4
7.2	12936	202	1.31	FF 157R97	4	44	2220	32.83	1.82	F 97	4
7.4	12551	196	1.35			48	2076	30.70	1.95	FF 97	4
6.5	14472	226	0.78	FA 127R87	4	53	1875	27.72	2.2		
7.3	12807	200	0.88	FAF127R87	4	58	1703	25.18	2.4		
8.7	10758	168	1.05	F 127R87	4	65	1511	22.34	2.7		
				FF 127R87	4	37	2655	39.25	0.96		
5.1	19181	141.80	0.88	FA 157	8	42	2377	35.14	1.03		
5.8	16928	125.14	1.00	FAF157	8	50	1972	29.16	1.20		
6.7	14675	108.49	1.15	F 157	8	55	1792	26.50	1.57	FA 87	4
7.6	13058	96.53	1.30	FF 157	8	62	1602	23.68	1.76	FAF87	4
5.5	18036	177.17	0.94			68	1442	21.32	1.96	F 87	4
5.9	16729	164.33	1.01			76	1306	19.31	2.16	FF 87	4
6.8	14435	141.80	1.17	FA 157	6	85	1158	17.12	2.4		
7.8	12739	125.14	1.33	FAF157	6	94	1047	15.48	2.7		
8.9	11044	108.49	1.53	F 157	6	111	887	13.12	3.2		
10	9827	96.53	1.72	FF 157	6	74	1332	19.70	1.06		
11	8847	86.90	1.91			83	1183	17.49	1.19		
12	8090	79.47	2.1			93	1058	15.64	1.33		
5.5	18042	266.76	0.94			104	951	14.06	1.48		
6.7	14776	218.46	1.15			120	825	12.20	1.61	FA 77	4
8.2	12053	177.17	1.40	FA 157	4	134	739	10.93	1.71	FAF77	4
8.9	11114	164.33	1.52	FAF157	4	156	632	9.35	1.81	F 77	4
10	9591	141.80	1.76	F 157	4	176	561	8.30	1.91	FF 77	4
12	8464	125.14	2.0	FF 157	4	197	502	7.42	2.0		
13	7338	108.49	2.3			219	451	6.67	2.3		
						252	392	5.79	2.6		
						281	351	5.19	2.9		
						340	291	4.30	3.3		

F



Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
15kW						15kW					
6.3	20172	231	0.84	FA 157R97	4	55	2444	26.50	1.15		
7.2	17639	202	0.96	FAF157R97	4	62	2184	23.68	1.29		
7.4	17115	196	0.99	F 157R97	4	68	1966	21.32	1.43		
				FF 157R97	4	76	1781	19.31	1.58		
6.8	19685	141.80	0.86	FA 157	6	85	1579	17.12	1.79		
7.8	17372	125.14	0.97	FAF157	6	94	1428	15.48	1.84	FA 87	4
8.9	15061	108.49	1.12	F 157	6	111	1210	13.12	1.98	FAF87	4
10	13400	96.53	1.26	FF 157	6	127	1057	11.46	2.1	F 87	4
11	12063	86.90	1.40			152	884	9.58	2.3	FF 87	4
						173	780	8.46	2.5		
6.7	20143	218.40	0.84			195	692	7.50	2.7		
8.2	16340	177.17	1.04			215	625	6.78	2.8		
8.9	15156	164.33	1.12			254	530	5.75	2.8		
10	13078	141.80	1.29	FA 157	4	291	463	5.02	3.1		
12	11542	125.14	1.47	FAF157	4	348	387	4.20	3.5		
13	10006	108.49	1.69	F 157	4						
15	8903	96.53	1.90	FF 157	4						
17	8015	86.90	2.1								
18	7329	79.47	2.3								
21	6378	69.15	2.7								
24	5628	61.02	3.0								
						18.5kW					
9.7	13844	99.73	0.81	FA 127	6	7.3	21607	202	0.78	FA 157R97	4
11	12216	88.00	0.92	FAF127	6	7.5	20965	196	0.81	FAF157R97	4
13	10550	76.00	1.07	F 127	6					F 157R97	4
14	9803	70.62	1.15	FF 127	6					FF 157R97	4
15	8941	64.41	1.26								
12	11594	125.71	0.97	FA 127	4	8.3	20016	177.17	0.85		
13	10699	116.00	1.05	FAF127	4	8.9	18565	164.33	0.91		
15	9198	99.73	1.23	F 127	4	10	16020	141.80	1.06		
17	8116	88.00	1.39	FF 127	4	12	14138	125.14	1.20	FA 157	4
19	7009	76.00	1.61			14	12257	108.49	1.38	FAF157	4
21	6513	70.62	1.73			15	10906	96.53	1.55	F 157	4
						17	9818	86.90	1.72	FF 157	4
						18	8978	79.47	1.88		
						21	7812	69.15	2.2		
						24	6894	61.02	2.5		
						28	5978	52.91	2.8		
16	8528	92.47	0.85			13	13105	116.00	0.86		
16	8161	88.49	0.88			15	11267	99.73	1.00		
17	7746	83.99	0.93			17	9942	88.00	1.13	FA 127	4
20	6873	74.52	1.05			19	8586	76.00	1.31	FAF127	4
22	6237	67.62	1.16	FA 107	4	21	7978	70.62	1.41	F 127	4
25	5360	58.12	1.35	FAF107	4	23	7277	64.41	1.55	FF 127	4
29	4679	50.73	1.54	F 107	4	26	6297	55.74	1.79		
34	3969	43.03	1.82	FF 107	4	30	5557	49.19	2.0		
39	3469	37.61	2.1								
43	3116	33.78	2.3								
46	2933	31.80	2.5			20	8419	74.52	0.86		
53	2530	27.43	2.8			22	7639	67.62	0.94		
58	2334	25.31	3.1			25	6566	58.12	1.10		
67	2007	21.76	3.6			29	5731	50.73	1.26	FA 107	4
						34	4861	43.03	1.49	FAF107	4
						39	4249	37.61	1.70	F 107	4
						44	3817	33.78	1.89	FF 107	4
						46	3593	31.80	2.0		
						53	3099	27.43	2.3		
						58	2859	25.31	2.5		
						68	2458	21.76	2.9		
32	4145	44.94	0.98			37	4435	39.26	0.91		
37	3621	39.26	1.12			45	3709	32.83	1.09		
43	3160	34.26	1.28			53	3132	27.72	1.29		
44	3028	32.83	1.33			58	2845	25.18	1.42	FA 97	4
48	2831	30.70	1.43	FA 97	4	66	2524	22.34	1.60	FAF97	4
53	2557	27.72	1.58	FAF97	4	73	2290	20.27	1.77	F 97	4
58	2322	25.18	1.74	F 97	4	84	1274	17.42	2.35	FF 97	4
65	2060	22.34	1.96	FF 97	4	97	1718	15.21	2.77		
72	1869	20.27	2.2			114	1457	12.90	3.17		
84	1607	17.42	2.5			130	1274	11.28	3.17		
96	1403	15.21	2.9								
113	1190	12.90	3.4								
129	1040	11.28	3.9								

F



Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
18.5kW						22kW					
69	2409	21.32	1.17			112	1763	13.12	1.27		
76	2182	19.31	1.29			128	1540	11.46	1.43		
86	1934	17.12	1.46			153	1287	9.58	1.58	FA 87	4
95	1749	15.48	1.50			174	1137	8.46	1.60	FAF87	4
112	1482	13.12	1.61	FA 87	4	196	1008	7.50	1.70	F 87	4
128	1295	11.46	1.70	FAF87	4	217	911	6.78	1.83	FF 87	4
153	1082	9.58	1.80	F 87	4	256	773	5.75	1.86		
174	956	8.46	1.88	FF 87	4	293	674	5.02	2.1		
196	847	7.50	1.90			350	564	4.20	2.4		
217	766	6.78	2.0			30kW					
256	650	5.75	2.2			14	19876	108.49	0.85		
296	567	5.02	2.5			15	17685	96.53	0.96		
350	474	4.20	2.9			17	15920	86.90	1.06	FA 157	4
22kW						18	14559	79.47	1.16	FAF157	4
10	19654	96.53	0.86	FA 157	6	21	12669	69.15	1.34	F 157	4
11	17693	86.90	0.96	FAF157	6	24	11179	61.02	1.51	FF 157	4
12	16180	79.47	1.05	F 157	6	28	9693	52.91	1.75		
14	14079	69.15	1.20	FF 157	6	31	8623	47.07	2.0		
10	19051	141.80	0.89			36	7433	40.57	2.3		
12	16813	125.14	1.01			19	13924	76.00	0.81		
14	14576	108.49	1.16	FA 157	4	21	12938	70.62	0.87		
15	12969	96.53	1.30	FAF157	4	23	11800	64.41	0.96		
17	11675	86.90	1.45	F 157	4	26	10212	55.74	1.10		
18	10677	79.47	1.58	FF 157	4	30	9012	49.19	1.25	FA 127	4
21	9290	69.15	1.82			35	7783	42.48	1.45	FAF127	4
24	8198	61.02	2.1			39	6883	37.57	1.58	F 127	4
28	7108	52.91	2.4			47	5786	31.58	1.6	FF 127	4
31	6324	47.07	2.7			54	4961	26.92	1.95		
36	5451	40.57	3.1			58	4672	25.50	2.4		
45	4430	32.97	3.8			59	4536	24.97	2.8		
15	13399	99.73	0.84			68	3948	21.55	2.9		
17	11823	88.00	0.95			77	3483	19.01	3.2		
19	10211	76.00	1.10	FA 127	4	34	7883	43.03	0.92		
21	9488	70.62	1.19	FAF127	4	39	6890	37.61	1.05		
23	8653	64.41	1.30	F 127	4	46	5826	31.80	1.24		
26	7489	55.74	1.51	FF 127	4	54	5025	27.43	1.44	FA 107	4
30	6609	49.19	1.71			58	4637	25.31	1.56	FAF107	4
35	5707	42.48	1.98			68	3987	21.76	1.81	F 107	4
25	7808	58.12	0.92			77	3518	19.20	2.1	FF 107	4
29	6816	50.73	1.06			89	3038	16.58	2.4		
34	5781	43.03	1.25			100	2688	14.67	2.7		
39	5053	37.61	1.43	FA 107	4	119	2259	12.33	2.9		
44	4540	33.78	1.59	FAF107	4	148	1825	9.96	3.3		
46	4272	31.08	1.69	F 107	4	66	4093	22.34	0.99		
54	3685	27.43	1.96	FF 107	4	73	3714	20.27	1.09		
58	3400	25.31	2.1			84	3191	17.42	1.27		
68	2923	21.76	2.5			97	2787	15.21	1.31		
77	2580	19.20	2.8			114	2363	12.90	1.44	FA 97	4
53	3724	27.72	1.09			130	2067	11.28	1.45	FAF97	4
58	3383	25.18	1.19			159	1698	9.27	1.67	F 97	4
66	3001	22.34	1.35	FA 97	4	175	1541	8.41	1.83	FF 97	4
73	2723	20.27	1.48	FAF97	4	203	1325	7.23	1.85		
84	2340	17.42	1.73	F 97	4	233	1156	6.31	1.86		
97	2043	15.21	2.0	FF 97	4	275	980	5.35	2.1		
114	1733	12.90	2.3			314	857	4.68	2.2		
130	1515	11.28	2.7								
69	2864	21.32	0.98	FA 87	4						
76	2594	19.31	1.09	FAF87	4						
86	2300	17.12	1.23	F 87	4						
95	2080	15.48	1.36	FF 87	4						

F



Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
37kW						45kW					
17	19503	86.90	0.87			54	7525	27.57	0.98		
19	17835	79.47	0.95			59	6862	25.14	1.07		
21	15519	69.15	1.09	FA 157	4	68	5939	21.76	1.24		
24	13694	61.02	1.24	FAF157	4	77	5241	19.2	1.41		
28	11874	52.91	1.42	F 157	4	89	4525	16.58	1.63	FA 107	4
31	10564	47.07	1.60	FF 157	4	101	4004	14.67	1.80	FAF107	4
36	9105	40.57	1.86			120	3365	12.33	1.90	F 107	4
45	7399	32.97	2.3			149	2719	9.96	2.0	FF 107	4
53	6275	27.96	2.7			153	2634	9.65	2.1		
15	22261	99.19	0.51			177	2276	8.34	2.2		
27	12509	55.74	0.90			201	2012	7.37	2.3		
35	9534	42.48	1.18			239	1692	6.20	2.6		
39	8432	37.57	1.31			55kW					
47	7087	31.58	1.34			24	20357	61.02	0.83		
55	6077	26.92	1.86			28	17651	52.91	0.96		
60	5557	24.97	1.45	FA 127	4	31	15703	47.07	1.08	FA 157	4
69	4836	21.55	2.3	FAF127	4	36	13534	40.57	1.25	FAF157	4
78	4266	19.01	2.4	F 127	4	45	10999	32.97	1.54	F 157	4
90	3699	16.48	2.8	FF 127	4	53	9328	27.96	1.66	FF 157	4
101	3292	14.67	3.1			58	8484	25.43	1.81		
117	2837	12.64	3.2			67	7393	22.16	2.3		
144	2305	10.27	3.3			75	6595	19.77	2.4		
169	1966	8.76	3.3			88	5621	16.85	3.0		
190	1748	7.79	3.9			45kW					
54	6156	27.43	1.20			39	12534	37.57	0.90		
58	5680	25.31	1.30			47	10535	31.58	1.07		
68	4883	21.76	1.51			58	8507	25.5	1.33		
77	4309	19.20	1.7			69	7189	21.55	1.57		
89	3721	16.58	2.0	FA 107	4	78	6342	19.01	1.63		
101	3292	14.67	2.1	FAF107	4	90	5498	16.48	1.88	FA 127	4
120	2767	12.33	2.2	F 107	4	101	4894	14.67	2.1	FAF127	4
149	2235	9.96	2.3	FF 107	4	117	4217	12.64	2.2	F 127	4
153	2166	9.65	2.4			144	3426	10.27	2.3	FF 127	4
177	1872	8.34	2.6			169	2922	8.76	2.4		
201	1654	7.37	2.7			190	2599	7.79	2.6		
239	1391	6.20	3.1			220	2242	6.72	2.9		
45kW						271	1821	5.46	3.1		
21	18874	69.15	0.90			320	1545	4.63	3.7		
24	16655	61.02	1.02			75kW					
28	14442	52.91	1.17	FA 157	4	31	21413	47.07	0.79		
31	12848	47.07	1.32	FAF157	4	36	18456	40.57	0.92		
36	11074	40.57	1.53	F 157	4	45	14999	32.97	1.13		
45	8999	32.97	1.88	FF 157	4	53	12719	27.96	1.22	FA 157	4
53	7632	27.96	2.2			58	11569	25.43	1.33	FAF157	4
30	13426	49.19	0.84			67	10081	22.16	1.68	F 157	4
35	11595	42.48	0.97			75	8994	19.77	1.78	FF 157	4
39	10255	37.57	1.08			88	7665	16.85	2.2		
47	8620	31.58	1.10			106	6351	13.96	2.5		
55	7391	26.92	1.18			124	5423	11.92	2.8		
58	6960	25.50	1.31			75kW					
60	6758	24.97	1.62			58	11600	25.50	0.97		
69	5882	21.55	1.92	FA 127	4	69	9803	21.55	1.2		
78	5189	19.01	2.0	FAF127	4	78	8648	19.01	1.2		
90	4498	16.48	2.3	F 127	4	90	7497	16.48	1.4		
101	4004	14.67	2.6	FF 127	4	101	6674	14.67	1.5	FA 127	4
117	3450	12.64	2.7			117	5750	12.64	1.6	FAF127	4
144	2803	10.27	2.8			144	4672	10.27	1.6	F 127	4
169	2391	8.76	2.9			169	3985	8.76	1.7	FF 127	4
190	2126	7.79	3.2			190	3544	7.79	1.9		
220	1834	6.72	3.6			220	3057	6.72	2.2		
271	1490	5.46	3.8			271	2484	5.46	2.3		
						320	2106	4.63	2.7		

F



Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f _B	Type	p	r/min	Nm	i	f _B	Type	p
90kW											
45	17998	32.97	0.94								
53	15263	27.96	1.02								
58	13882	25.43	1.11	FA 157	4						
67	12097	22.16	1.40	FAF157	4						
75	10792	19.77	1.48	F 157	4						
88	9198	16.85	1.84	FF 157	4						
106	7621	13.96	2.1								
124	6507	11.92	2.3								
58	13920	25.50	0.81								
69	11764	21.55	0.96								
78	10378	19.01	1.00								
90	8953	16.48	1.15								
101	8008	14.67	1.29	FA 127	4						
117	6900	12.64	1.33	FAF127	4						
144	5606	10.27	1.36	F 127	4						
169	4782	8.76	1.59	FF 127	4						
190	4253	7.79	1.60								
220	3668	6.72	1.79								
271	2981	5.46	1.89								
320	2528	4.63	2.2								
110kW											
53	18530	27.96	0.91								
67	14686	22.16	1.15	FA 157	4						
75	13102	19.77	1.22	FAF157	4						
88	11167	16.85	1.52	F 157	4						
107	9252	13.96	1.73	FF 157	4						
125	7900	11.92	1.90								
132kW											
67	17623	22.16	0.96	FA 157	4						
75	15723	19.77	1.02	FAF157	4						
88	13400	16.85	1.26	F 157	4						
107	11102	13.96	1.44	FF 157	4						
125	9480	11.92	1.59								
160kW											
88	16243	16.85	1.04	FA 157	4						
107	13457	13.96	1.19	FAF157	4						
125	11491	11.92	1.31	F 157	4						
200kW											
88	20304	16.85	0.83	FA 157	4						
107	16821	13.96	0.95	FAF157	4						
125	14363	11.92	1.05	F 157	4						
				FF 157	4						

F



Permissible torque Nm	Output speed r/min	Ratio i	Type T _{yp} e	Power kW/4 _p	Permissible torque Nm	Output speed r/min	Ratio i	Type T _{yp} e	Power kW/4 _p
200	5.3	262	FA 37R17 FAF37R17 F 37R17 FF 37R17	0.18	1500	2.3	600	FA 77R37 FAF77R37 F 77R37 FF 77R37	0.55
	6.1	229				2.6	525		
	7.0	200				3.0	469		
	8.2	170				3.4	412		
	9.1	153	3.9	357		0.75			
	10	133	4.4	314					
400	2.5	563	FA 47R17 FAF47R17 F 47R17 FF 47R17	0.18	3000	0.33	4245	FA 87R57 FAF87R57 F 87R57 FF 87R57	0.18
	2.9	477				0.37	3721		
	3.1	445				0.43	3244		
	3.6	389				0.48	2881		
	4.0	346		0.54		2575	0.25		
	4.6	304		0.63		2199			
	4.7	293		0.72		1930			
	6.0	230		0.81		1709	0.37		
	6.4	216		0.93		1493			
	7.4	188		1.1		1300	0.55		
	7.9	176		1.2		1148			
9.4	148	1.4	1010						
11	130	1.6	887						
600	1.6	856	FA 57R37 FAF57R37 F 57R37 FF 57R37	0.18	4300	1.8	780	FA 97R57 FAF97R57 F 97R57 FF 97R57	0.75
	1.9	749				2.1	674		
	2.1	658				2.3	609		
	2.5	549		2.7		515	1.1		
	2.9	483		3.1		452			
	3.3	426		4.0		345	1.5		
	3.6	382		0.21		6532			
	4.2	330		0.24		5696	0.18		
	4.7	298		0.28		5032			
	5.3	262		0.32		4375			
	6.2	226		0.35		3946			
	7.0	200		0.41		3404	0.25		
	8.4	166		0.47		2949			
	9.1	152		0.54		2590	0.37		
10	134	0.61	2267						
1.2	1126	0.70	1989						
1.4	984	0.80	1739	0.55					
1.6	864	0.90	1542						
1.9	722	1.0	1340	0.75					
2.2	633	1.2	1182						
2.6	527	1.3	1032						
2.8	500	1.5	907						
3.1	454	1.8	796	1.1					
3.5	392	2.0	700						
4.2	333	2.3	611	1.5					
4.7	297	2.6	534						
5.3	261	3.0	472						
5.8	238	3.5	410						
7.0	200	3.9	367	2.2					
0.7	2024	4.9	288						
0.81	1728	5.7	247	3					
0.91	1543	0.12	11347						
1.03	1354	0.14	10039	7840					
1.2	1196	0.16	8548						
1.3	1050	0.18	7675						
1.5	907	0.21	6615						
1.7	810	0.24	5820	0.25					
2.0	710	0.27	5223						

F

All gear units are overloaded in above table. Determination of operating torque should not higher than the gear unit's nominal torque.



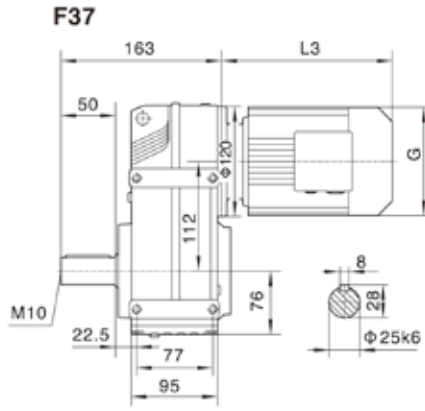
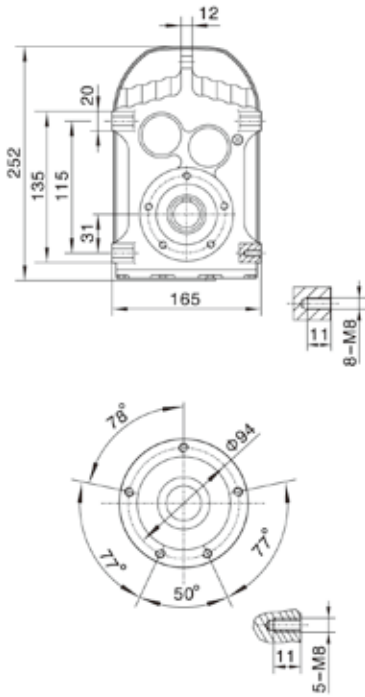
Permissible torque Nm	Output speed r/min	Ratio i	Type Type	Power kW/4p	Permissible torque Nm	Output speed r/min	Ratio i	Type Type	Power kW/4p
7840	0.30	4567	FA 107R77 FAF107R77 F 107R77 FF 107R77	0.37	18000	0.04	31434	FA 157R97 FAF157R97 F 157R97 FF 157R97	0.55
	0.40	3442				0.05	26173		
	0.46	3037		0.06		23464			
	0.50	2756		0.07		20212			
	0.59	2369		0.08		17984			
	0.67	2068		0.09		16358			
	0.76	1826		0.10		13751			
	0.88	1597		0.11		12235			
	1.0	1401		0.20		7065			
	1.1	1243		0.22		6286			
	1.3	1087		0.26		5404			
	1.5	950		0.14		10033			
	1.7	834		0.16		9021			
	1.9	736		0.17		8026			
	2.3	627		0.29		4831			
	2.5	560		0.34		4124			
	2.9	489		0.50		2776			
	3.3	427		0.57		2427			
4.0	362	0.64	2185						
4.3	333	0.39	3602						
12000	0.08	16787	FA 127R77 FAF127R77 F 127R77 FF 127R77	0.18	0.44	3205	FA 127R87 FAF127R87 F 127R87 FF 127R87	2.2	
	0.09	14838			0.73	1944			
	0.11	13014		0.85	1674				
	0.12	11748		1.00	1420				
	0.14	10271		1.1	1308				
	0.16	8901		1.2	1169				
	0.18	7703		1.5	953				
	0.21	6768		1.7	845				
	0.23	5975		1.9	764				
	0.27	5076		2.1	680				
	0.31	4466		2.5	576				
	0.36	3868		2.9	503				
	0.41	3403		3.3	446				
	0.47	2987		4.9	301				
	0.52	2693		5.4	272				
	0.59	2376		6.3	231				
	0.68	2054		7.2	202				
	0.78	1798		4.9	196				
	0.86	1619							
	1.0	1401							
	1.2	1230							
	1.3	1085							
	1.5	937							
	1.7	827							
1.9	733								
2.2	640								
2.7	542								
2.9	489								
3.4	423								
3.9	371								
3.0	483								
3.5	417								
3.9	373								
4.7	312								
5.0	293								
7.3	200								

F

All gear units are overloaded in above table. Determination of operating torque should not higher than the gear unit's nominal torque.



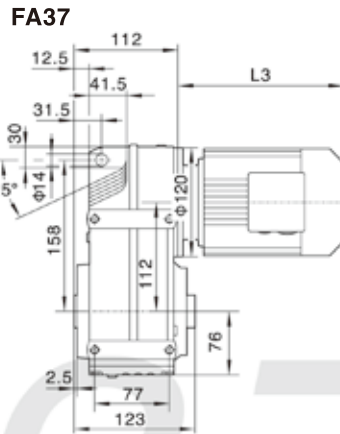
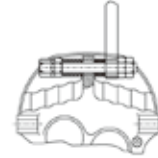
F



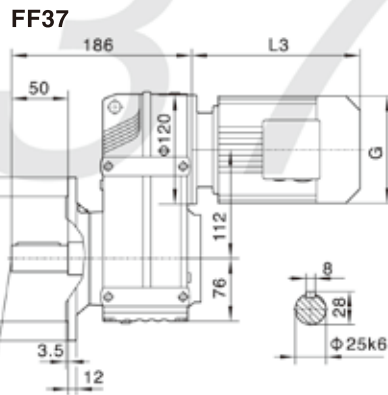
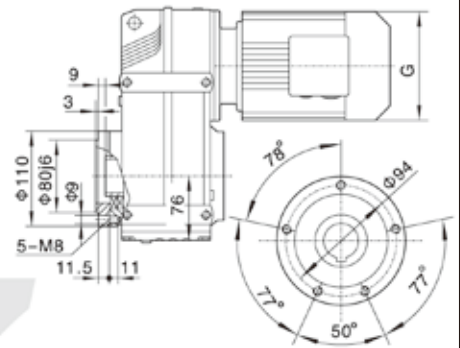
FA37/FAF37/FAZ37 /Hollow shaft



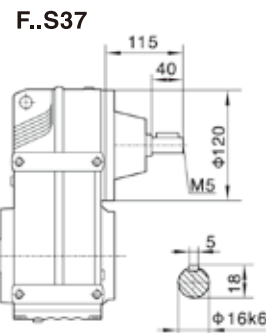
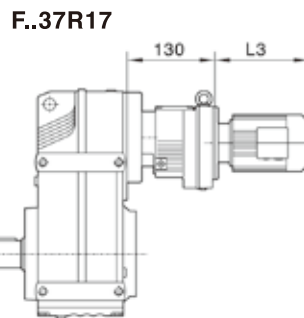
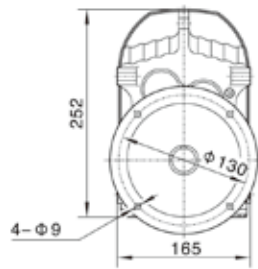
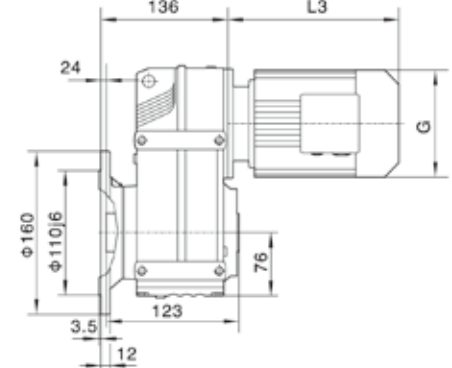
F.T37



FAZ37



FAF37

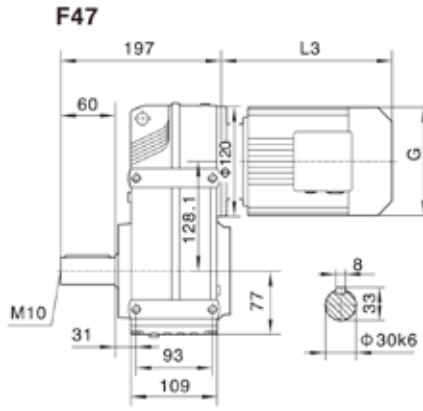
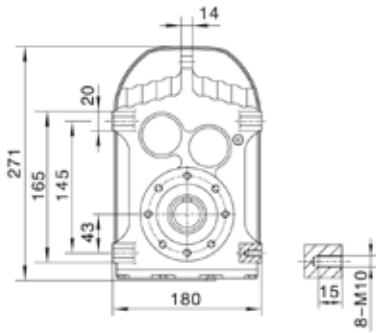


Note: For other values please refer to relevant structure.

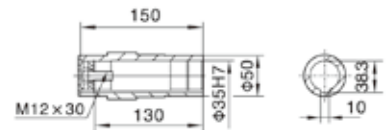
Customers provide the motor by themselves need connected flange.

Motor size	63	71	80	90S	90L	100	
Power/(kW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3	
L3	235	245	278	304	328	340	
G	130	145	175	195	195	215	
L2	71	71	71	71	71	93	

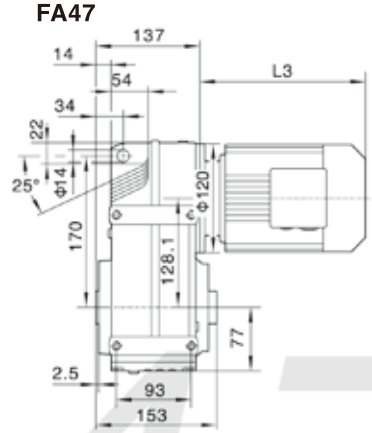
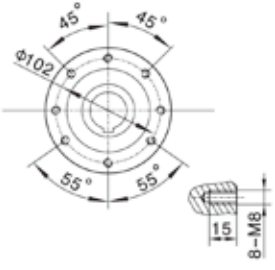
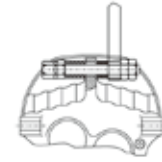
Note:1. The above housings are common parts.The mounting dimensions may consult each other. 2. "F..." means F, FA, FF, FAF, FAZ.



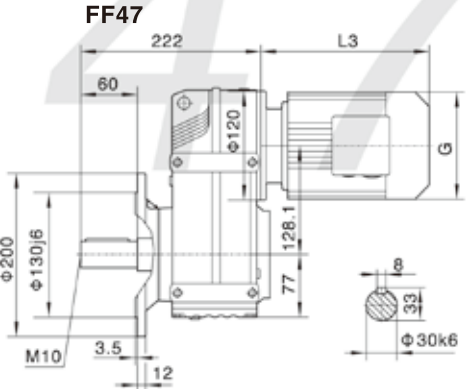
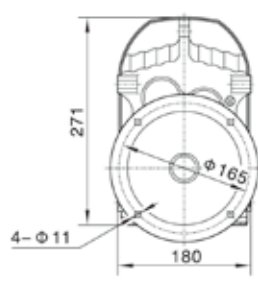
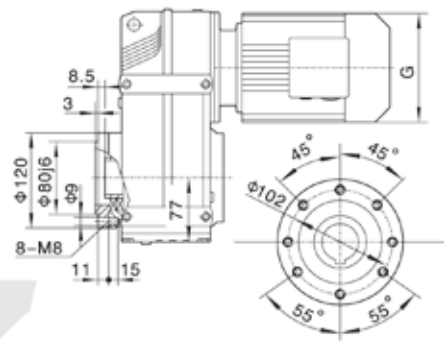
FA47/FAF47/FAZ47
/Hollow shaft



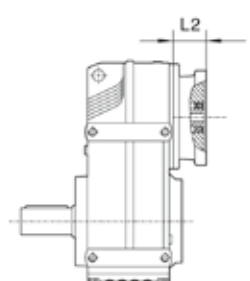
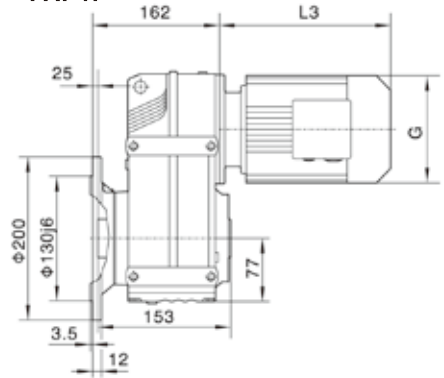
F.T47



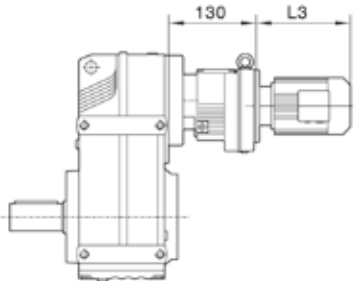
FAZ47



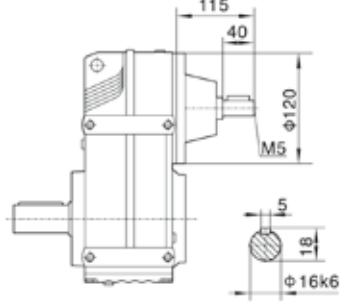
FAF47



F..47R17



F..S47



Note: For other values please refer to relevant structure.

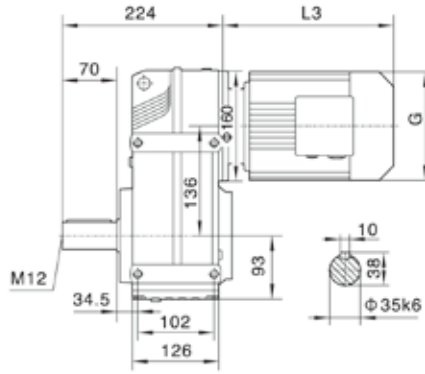
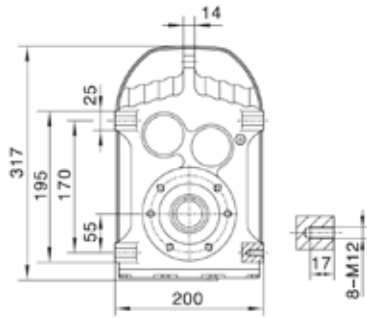
Customers provide the motor by themselves need connected flange.

Motor size	63	71	80	90S	90L	100	
Power/(kW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3	
L3	235	245	278	304	328	340	
G	130	145	175	195	195	215	
L2	71	71	71	71	71	93	

Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2. "F..." means F, FA, FF, FAF, FAZ.

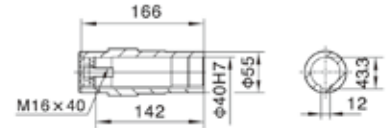


F57

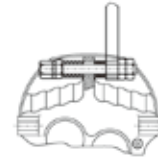


FA57/FAF57/FAZ57

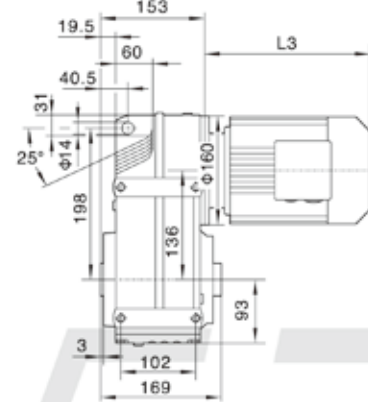
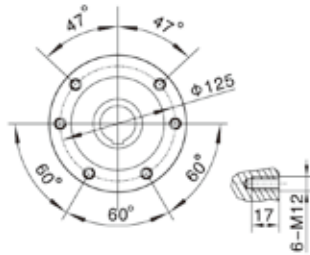
/Hollow shaft



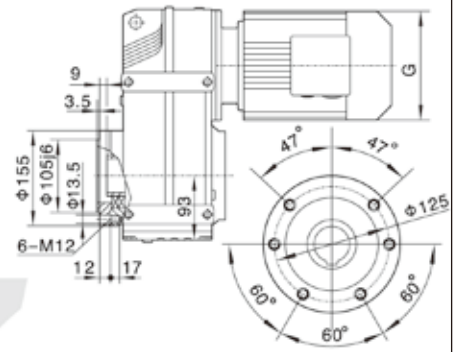
F..T57



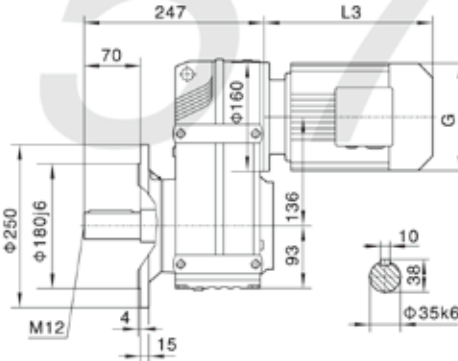
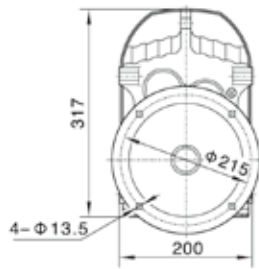
FA57



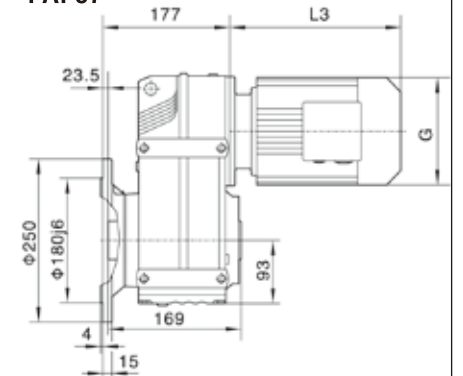
FAZ57



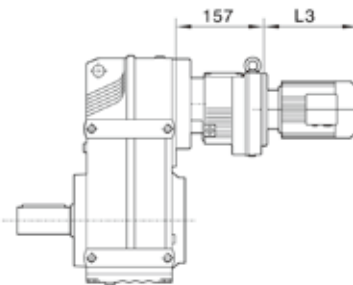
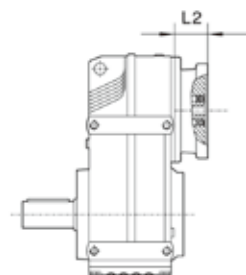
FF57



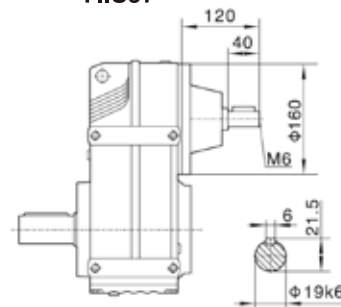
FAF57



F..57R37



F..S57



Note: For other values please refer to relevant structure.

Customers provide the motor by themselves need connected flange.

Motor size	63	71	80	90S	90L	100	112M	132S
Power/(kW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3	4	5.5
L3	223	245	278	304	328	350	380	425
G	130	145	175	195	195	215	240	275
L2	81	81	81	81	81	93	93	101

Note:1. The above housings are common parts.The mounting dimensions may consult each other. 2. "F..." means F, FA, FF, FAF, FAZ.



F67

FA67/FAF67/FAZ67 /Hollow shaft

F.T67

FA67

FAZ67

FF67

FAF67

F..67R37

F..S67

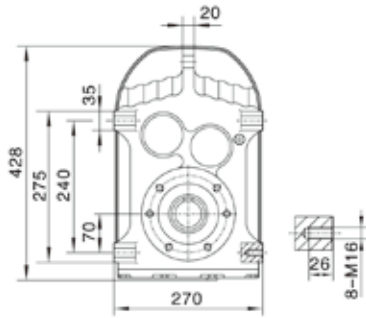
Note: For other values please refer to relevant structure.

Customers provide the motor by themselves need connected flange.

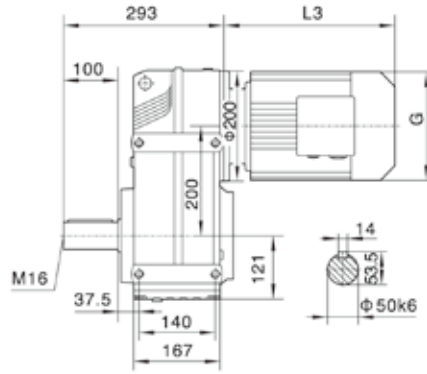
Motor size	63	71	80	90S	90L	100	112M	132S
Power/(kW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3	4	5.5
L3	223	245	278	304	328	350	380	425
G	130	145	175	195	195	215	240	275
L2	81	81	81	81	81	93	93	101

F

Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2. "F..." means F, FA, FF, FAF, FAZ.



F77

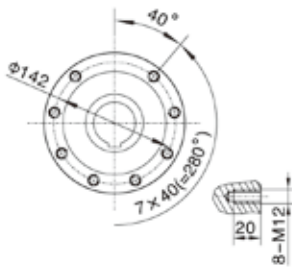
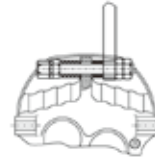


FA77/FAF77/FAZ77

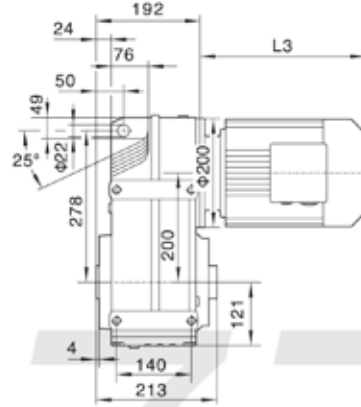
/Hollow shaft



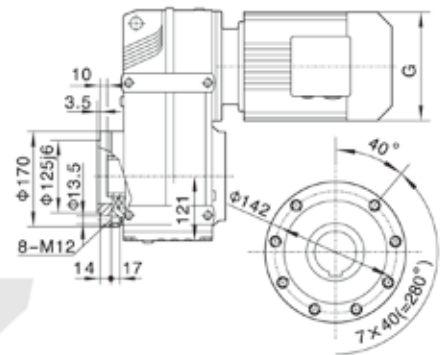
F..T77



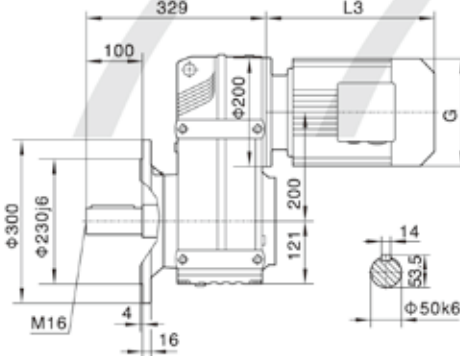
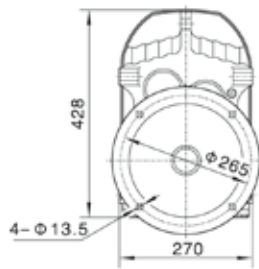
FA77



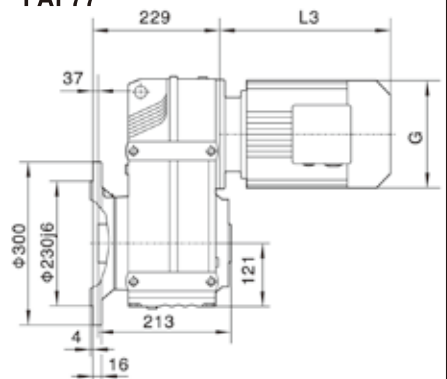
FAZ77



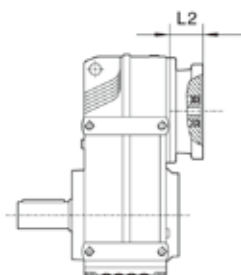
FF77



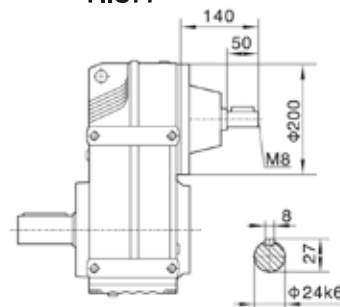
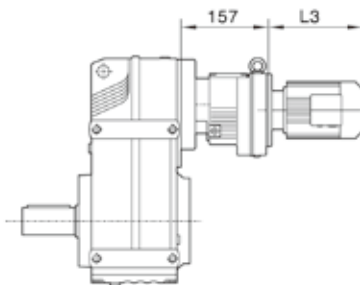
FAF77



F..77R37



F..S77



Note: For other values please refer to relevant structure.

Customers provide the motor by themselves need connected flange.

Motor size	71	80	90S	90L	100	112M	132S	132M	160M
Power/(kW)	0.37	0.55 0.75	1.1	1.5	2.2 3	4	5.5	7.5	11
L3	233	278	304	328	350	380	425	461	524
G	145	175	195	195	215	240	275	275	330
L2	81	81	81	81	93	93	101	101	126

Note:1. The above housings are common parts. The mounting dimensions may consult each other. 2. "F.." means F, FA, FF, FAF, FAZ.



F87

FA87/FAF87/FAZ87 /Hollow shaft

F.T87

FA87

FAZ87

FF87

FAF87

F..87R57

F..S87

Note: For other values please refer to relevant structure.

Customers provide the motor by themselves need connected flange.

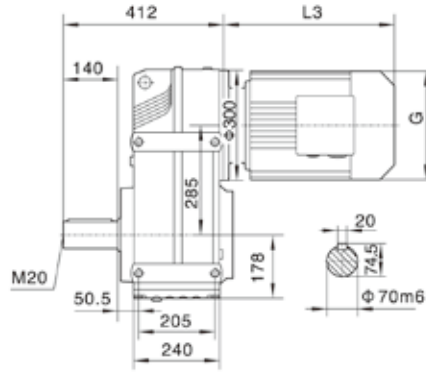
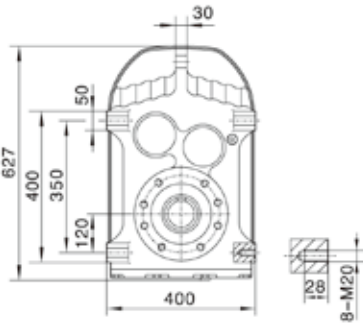
Motor size	80	90S	90L	100	112M	132S	132M	160M	160L	180M	180L
Power/(kW)	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	22
L3	246	280	304	350	380	425	461	524	547	583	616
G	175	195	195	215	240	275	275	330	330	380	380
L2	86	86	86	71	71	101	101	126	126	126	126

F

Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2. "F..." means F, FA, FF, FAF, FAZ.

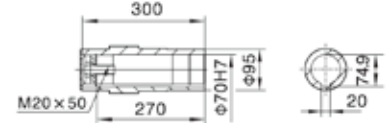


F97

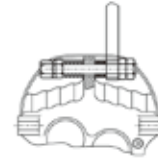


FA97/FAF97/FAZ97

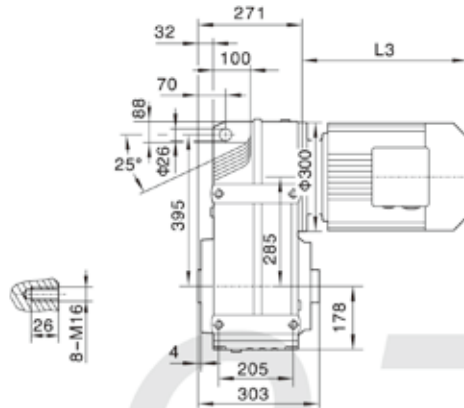
/Hollow shaft



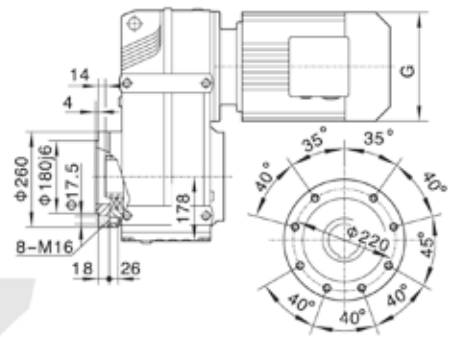
F..T97



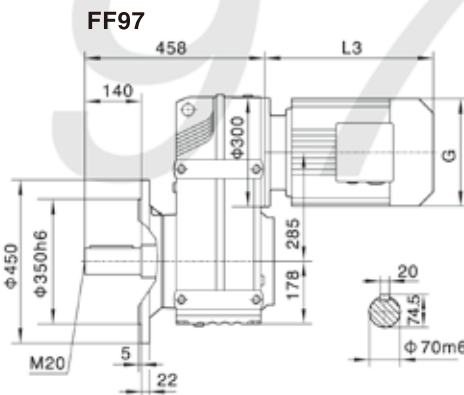
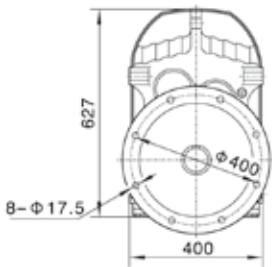
FA97



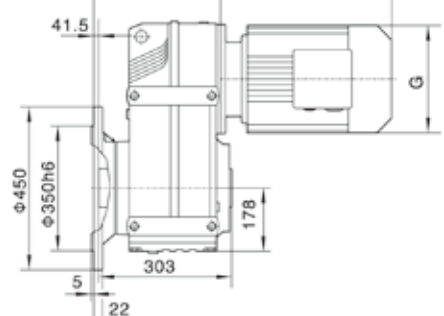
FAZ97



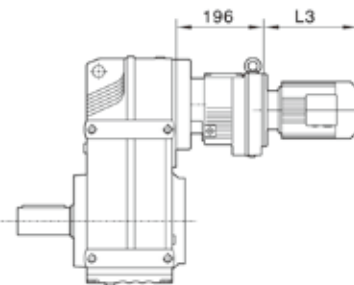
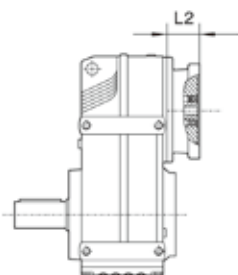
FF97



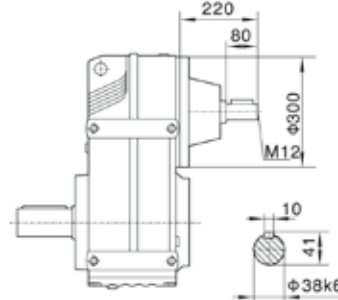
FAF97



F..97R57



F..S97

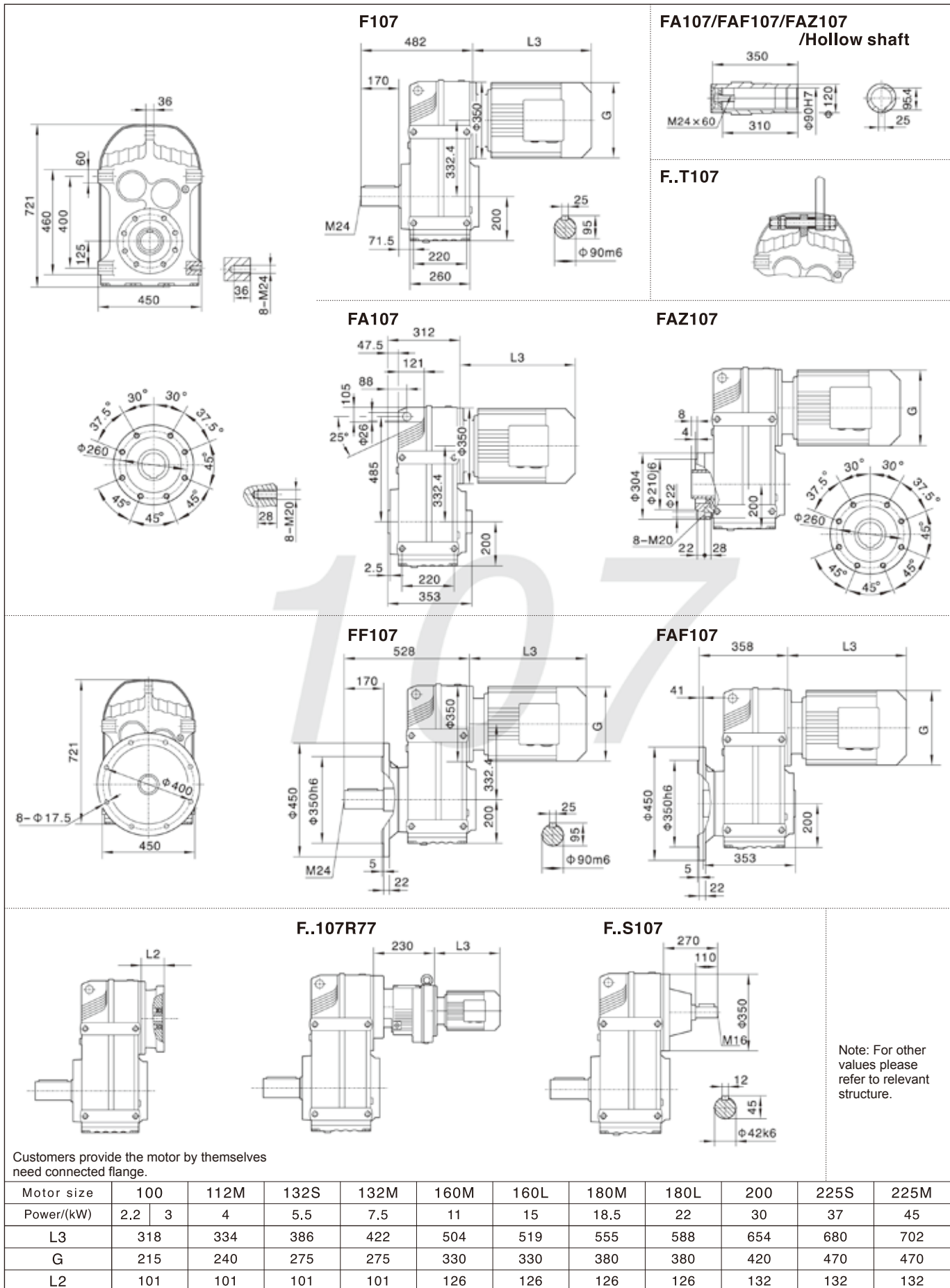


Note: For other values please refer to relevant structure.

Customers provide the motor by themselves need connected flange.

Motor size	90S	90L	100	112M	132S	132M	160M	160L	180M	180L	200
Power/(kW)	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5	30
L3	280	304	315	334	425	461	524	547	555	588	654
G	195	195	215	240	275	275	330	330	380	380	420
L2	86	86	101	101	101	101	126	126	126	126	132

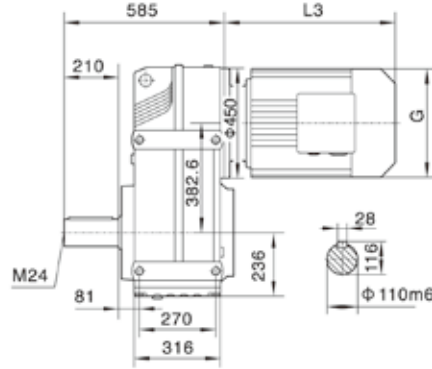
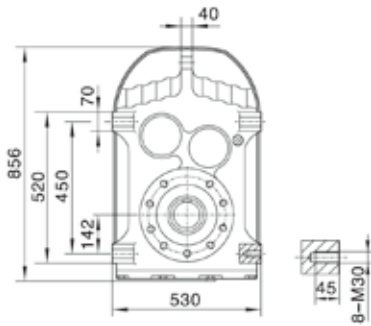
Note:1. The above housings are common parts.The mounting dimensions may consult each other. 2. "F..." means F, FA, FF, FAF, FAZ.



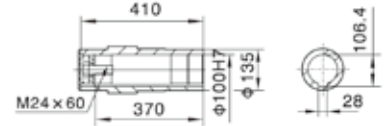
F



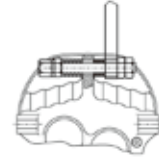
F127



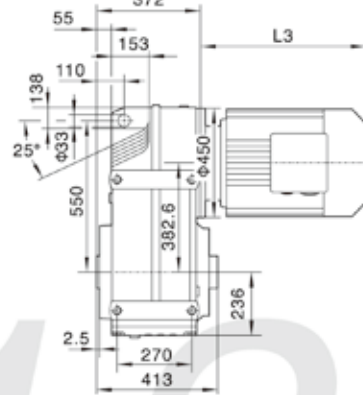
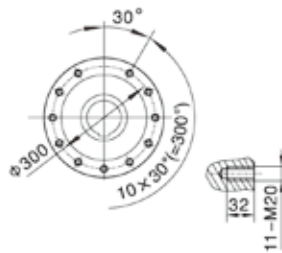
FA127/FAF127/FAZ127 /Hollow shaft



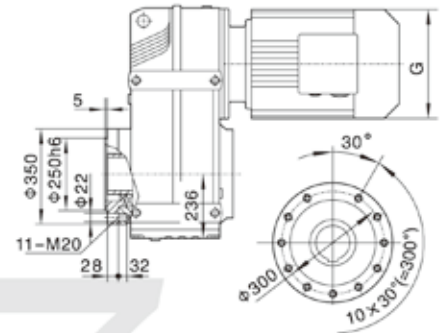
F..T127



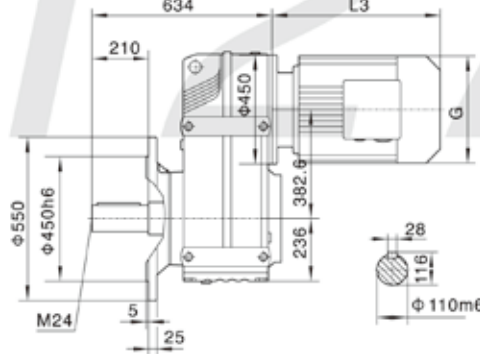
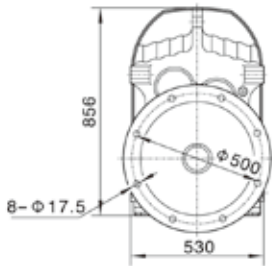
FA127



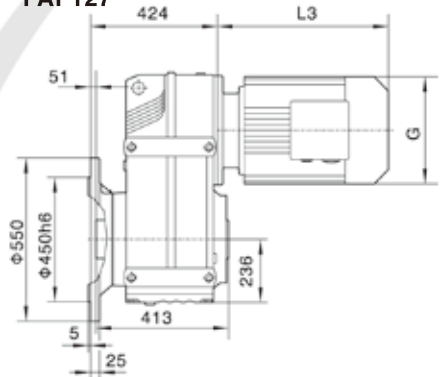
FAZ127



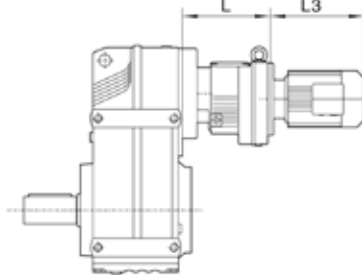
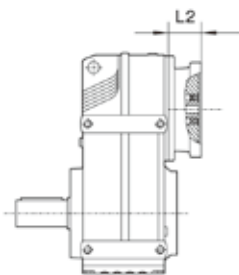
FF127



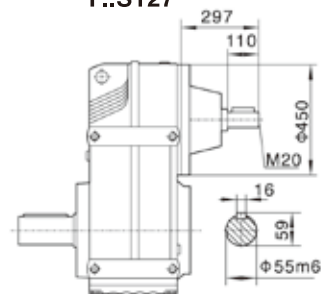
FAF127



F..127R77(R87)



F..S127



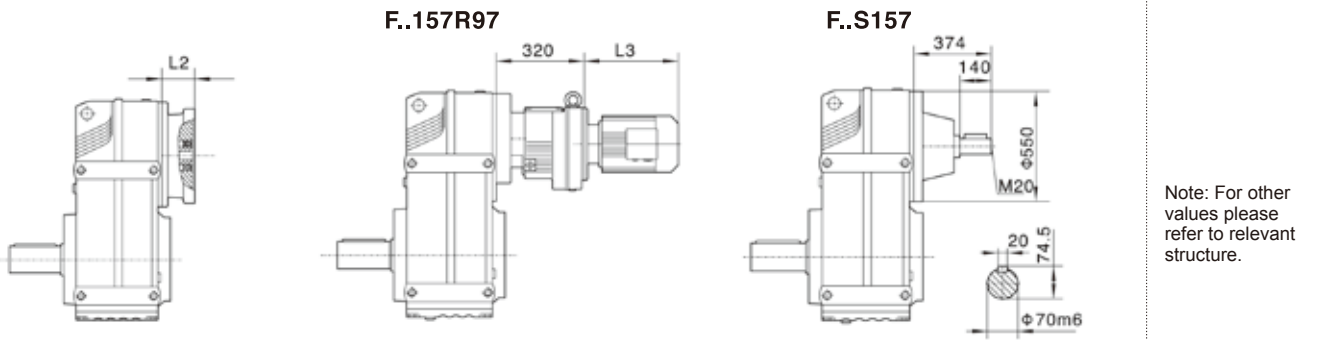
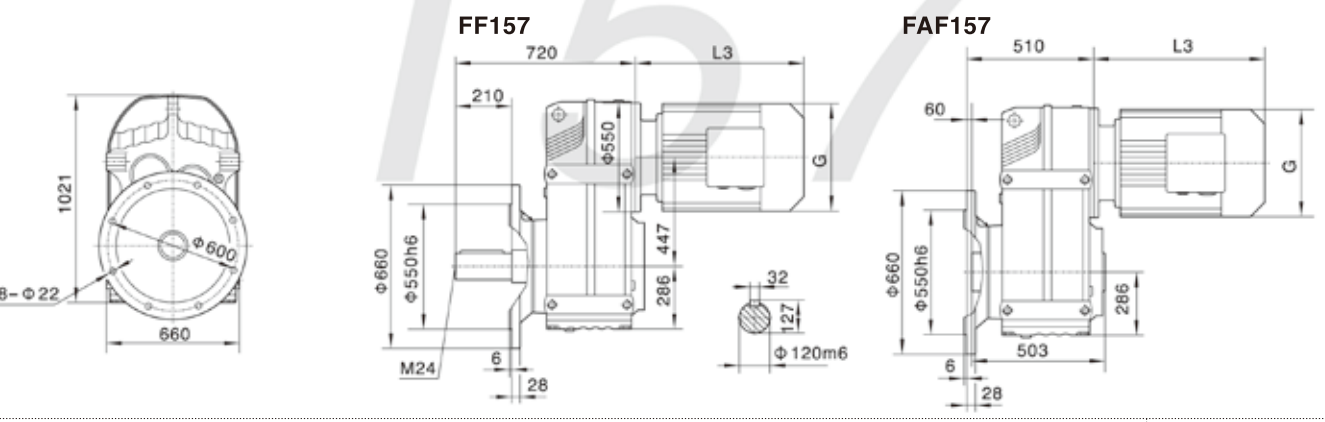
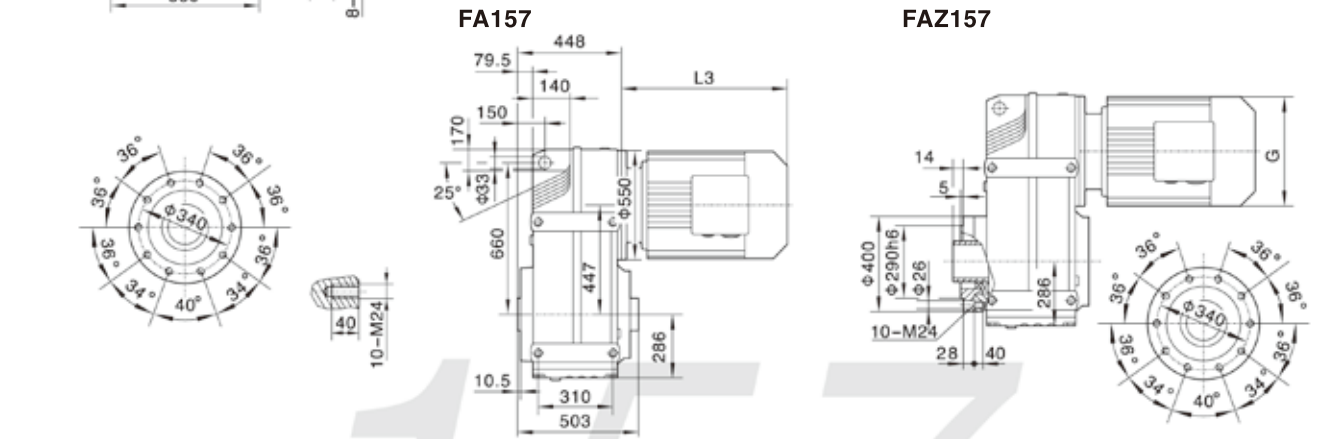
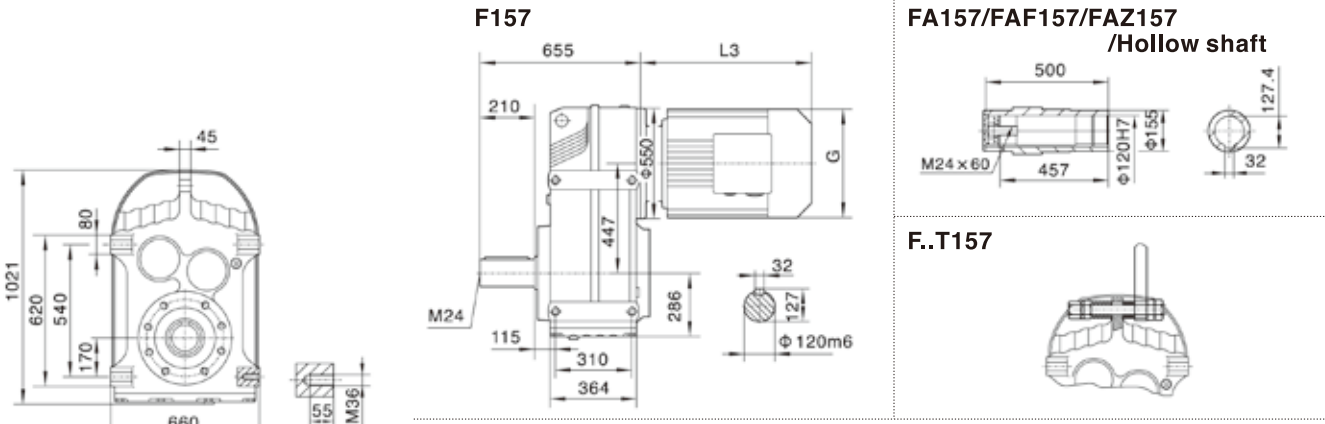
Note: For other values please refer to relevant structure.

Customers provide the motor by themselves need connected flange.

	F..127R77	F..127R87
L	230	275

Motor size	132M	160M	160L	180M	180L	200	225S	225M	250	280S	280M
Power/(kW)	7.5	11	15	18.5	22	30	37	45	55	75	90
L3	424	567	602	583	616	654	674	696	775	847	847
G	275	330	330	380	380	420	470	470	510	580	580
L2	132	132	132	132	132	132	143	143	174	174	174

Note:1. The above housings are common parts.The mounting dimensions may consult each other. 2. "F..." means F, FA, FF, FAF, FAZ.



Note: For other values please refer to relevant structure.

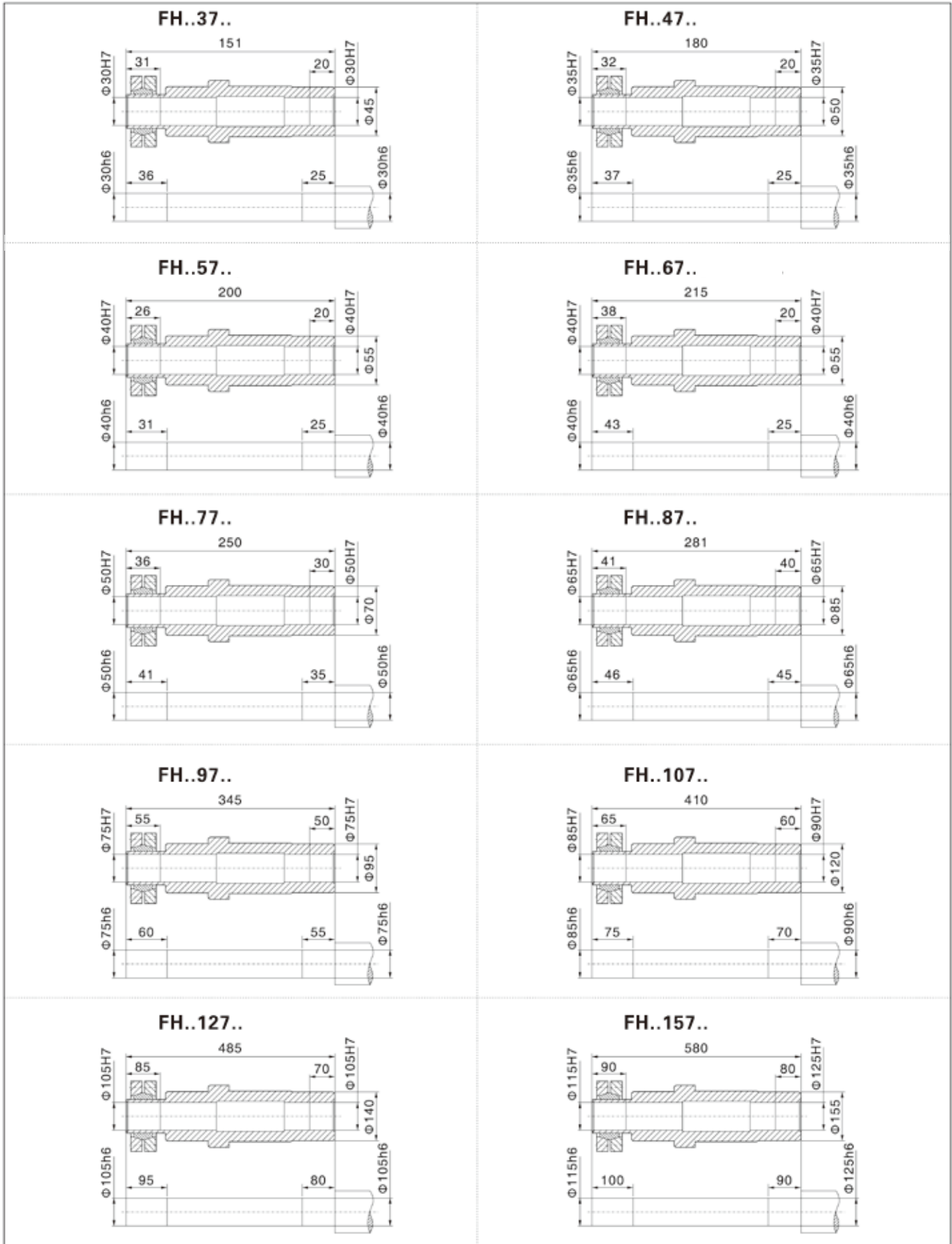
Customers provide the motor by themselves need connected flange.

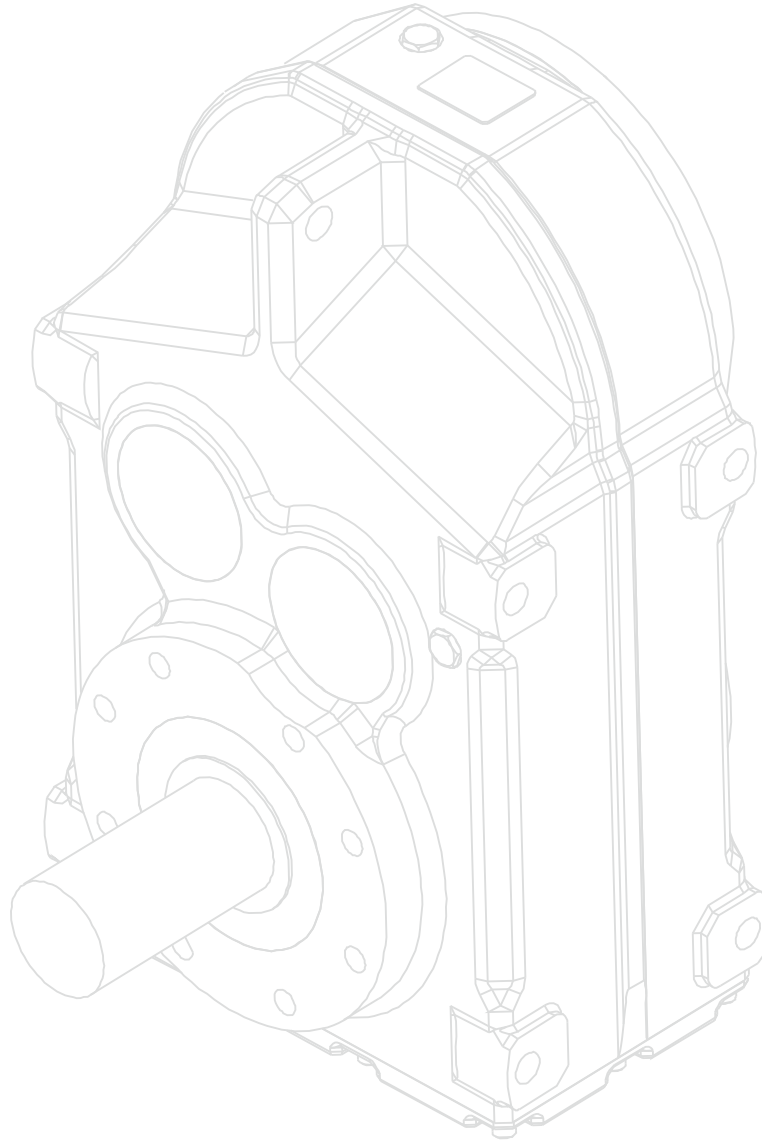
Motor size	160M	160L	180M	180L	200	225S	225M	250	280S	280M	315S	315M	315L
Power/(kW)	11	15	18.5	22	30	37	45	55	75	90	110	132	160
L3	567	602	635	666	642	669	691	770	828	879	1100	1180	1270
G	330	330	380	380	420	470	470	510	580	580	645	645	645
L2	143	143	143	143	143	143	143	143	143	143	145	145	145

Note:1. The above housings are common parts. The mounting dimensions may consult each other. 2. "F..." means F, FA, FF, FAF, FAZ.



Dimensions of shrink disc





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