

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 manul. 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.

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 conveyor	-	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 conveyor	-	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	-	-	1.7
Traveling mechanism*	-	1.4	1.8	Sugar-cane cutter*	-	-	1.7
Plate blender	-	1.0	1.0	Sugar crane mill	-	-	1.7
Chemical industry				Beet sugar production	-	-	1.7
Extruder	-	-	1.6	Beet masher			
Paste mixer	-	1.8	1.8	Squeeze machine,			
Rubber calendar	-	1.5	1.5	mechanical refrigerator,			
Cooling cylinder	-	1.3	1.4	cooking machine	-	-	1.4
Material mixer,be used for				Beet cleaner	-	-	1.5
Uniform medium	1.0	1.3	1.4	Beet chopper	-	-	1.5
Non-uniform medium	1.4	1.6	1.7	Paper-making machinery	-	1.8	2.0
Blender,be used for				Various kinds***			
Uniform density medium	1.0	1.3	1.5	Pulper driving device		Supply goods according to customer requirements	
Un-uniformed medium	1.2	1.4	1.6	Centrifugal compressor	-	1.4	1.5
Un-uniformed gas absorption	1.4	1.6	1.8	Rope way cable car			
Oven	1.0	1.3	1.5	Delivery ropeway	-	1.3	1.4
Centrifugal machine	1.0	1.2	1.3	Cableway of shuttle system	-	1.6	1.8
Metal processing equipment				T rod elevator	-	1.3	1.4
Plate turnover	1.0	1.0	1.2	Continuous cableway	-	1.4	1.6
Steel pushing device	1.0	1.2	1.2	Cement industry			
Winding machine	-	1.6	1.6	Concrete blender	-	1.5	1.5
Cooling bed transverse frame	-	1.5	1.5	Crusher*	-	1.2	1.4
Roller leveler	-	1.6	1.6	Rotary kiln	-	-	2.0
Roller path				Tube mill	-	-	2.0
Continuous	-	1.5	1.5	Powder concentrator	-	-	2.0
Interval	-	2.0	2.0	Roller press	-	1.6	1.6
Reversing mill	-	1.8	1.8		-	-	2.0
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						f1
Driven equipment	Daily running time with load(hour)	Driven equipment			Daily running time with load(hour)			f1
		≤ 2	> 2-10	> 10	≤ 2	> 2-10	> 10	
Wood industry								
Barking machine								
Feed drive	1.25	1.25	1.50					1.25
Main drive	1.75	1.75	1.75					1.25
Conveyor								
Burner,repeating saw	1.25	1.25	1.50					1.25
Rotary tower,transit transport	1.50	1.50	1.50					1.50
Main loading,heavy loading	1.75	1.75	2.00					1.75
Main original wood,land base								
Conveying chain								
Floor	1.50	1.50	1.50					1.50
Green-wood	1.50	1.50	1.75					1.50
Cutting Chain								
Saw transmission,traction	1.50	1.50	1.75					1.50
Peeling barrel	1.75	1.75	2.00					1.75
Feed drive								
Edging,wood trimmer	1.25	1.25	1.50					1.25
Planer feed,assorting table,								
Automatic incline lifting	1.75	1.75	1.75					1.75
Multi-shaft feed,raw wood								
Transportation and rotation								
Transportation								
Charging tray	1.50	1.50	1.75					1.00
Plywood lathe drive								1.00
Conveying chain,Lifting								1.25

⚠ Note: Determine required power P2 of the driven equipment:

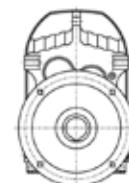
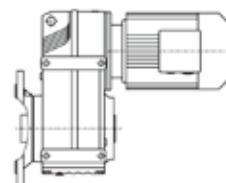
*)Determine rated power according to maximum torque.

**)It's necessary to check thermal capacity.

Prime mover factor

Table 2 Factor for prime mover		f2
Electric motors,hydraulic motors,turbines		1.0
Piston engines 4-6 cylinders		1.25
Piston engines 1-3 cylinders		1.5

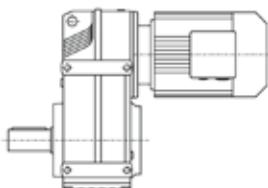
Table 3 Start factor		f3			
f3	f1xf2	1	1.25 -1.75	2- 2.75	≥ 3
Starts per hour					
≤ 5		1	1	1	1
6-25		1.2	1.12	1.06	1
26-60		1.3	1.2	1.12	1.06
61-180		1.5	1.3	1.2	1.12
> 180		1.7	1.5	1.3	1.2



FAF Y

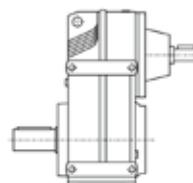
Flanged-mounted hollow shaft parallel shaft helical gear units

F series gear units are available in the following designs:



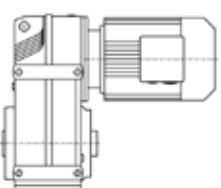
F..Y..

Foot-mounted solid shaft parallel shaft gear units



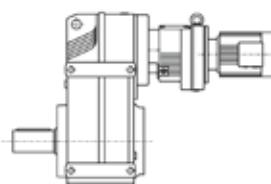
F (FF, FA, FAF, FAZ) S...

Parallel shaft helical gear units with solid shaft input



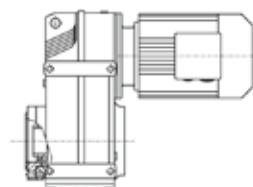
FA..Y..

Hollow shaft helical parallel shaft helical gear units



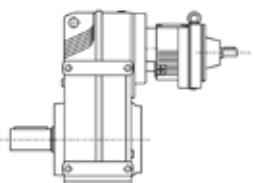
F (FF, FA, FAF, FAZ) ...R...Y...

Combi-type parallel shaft helical gear units



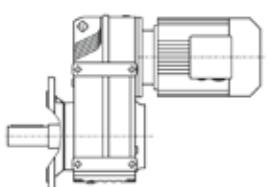
FAZ..Y..

Short-flange-mounted hollow shaft parallel shaft helical gear units



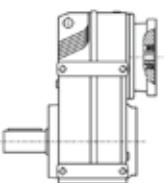
F (FF, FA, FAF, FAZ) S...R...

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:

F F 37-Y 0.55-4P-23.88-M1- 270°

Gear units type Structure Size Motor code Position of the motor thermal box
Mounting position Ratio Motor power, pole

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

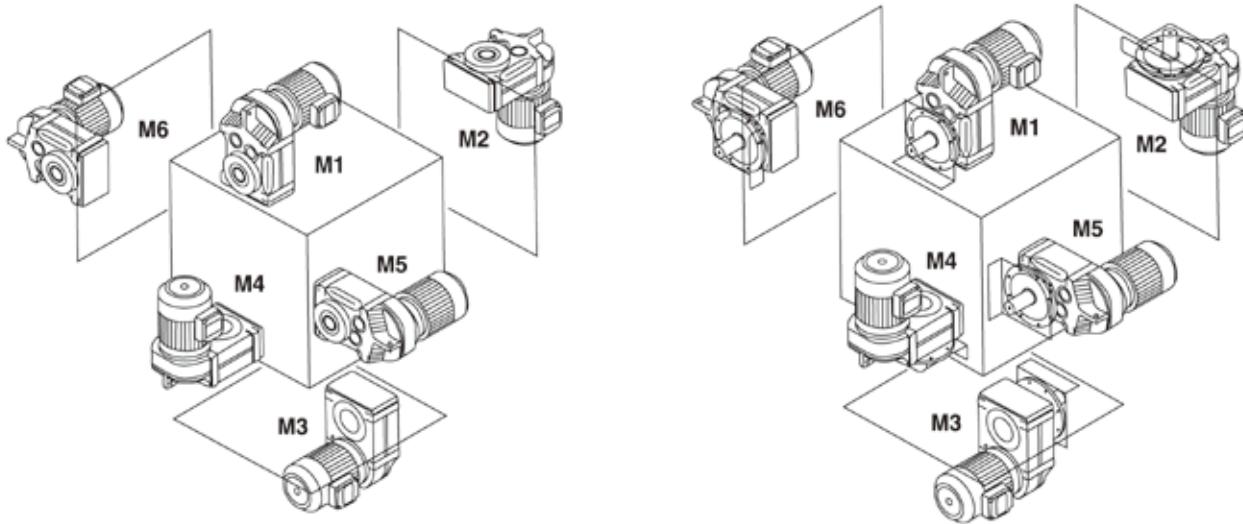
Mounting position:
M1, M2, M3, M4, M5, M6(See page 03)

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

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

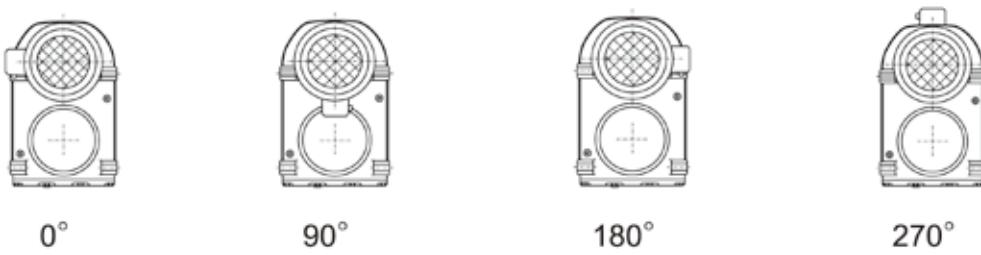


Mounting positions



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



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



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
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		
6.1	370	228.99	2.1	FA 67	4	0.37kW					
7.1	315	195.39	2.4	FAF67	4	0.21	15312	6768	0.74		
8.1	276	170.85	2.8	F 67	4	0.23	13514	5973	0.83	FA 127R77	4
8.6	262	162.31	2.9	FF 67	4	0.27	11484	5076	0.98	FAF127R77	4
9.8	230	142.40	3.4			0.31	10104	4466	1.12	F 127R77	4
4.3	527	199.70	1.07	FA 57	6	0.36	8751	3868	1.29	FF 127R77	4
4.6	485	183.60	1.16	FAF57	6	0.41	7699	3403	1.47		
5.4	415	157.09	1.4			0.47	6758	2987	1.67		
6.2	360	136.16	1.6	F 57	6	0.46kW					
6.7	336	127.27	1.7	FF 57	6	0.46	6871	3037	1.07	FA 107R77	4
7.7	290	110.01	1.9			0.50	6235	2756	1.16	FAF107R77	4
7.0	322	199.70	1.7	FA 57	4	0.59	5360	2369	1.35	F 107R77	4
7.6	296	183.60	1.9	FAF57	4	0.67	4679	2068	1.54	FF 107R77	4
8.8	254	157.09	2.2			0.87	3613	1597	2.0		
10	220	136.16	2.6	F 57	4	0.50kW					
11	205	127.27	2.7	FF 57	4	0.61	5129	2267	0.79		
13	178	110.01	3.2			0.70	4505	1991	0.90		
5.7	393	148.98	1.0	FA 47	6	0.80	3934	1739	1.03	FA 97R57	4
6.6	341	129.14	1.1	FAF47	6	0.90	3489	1542	1.16	FAF97R57	4
7.0	319	120.70	1.2	F 47	6	1.0	3032	1340	1.3	F 97R57	4
8.1	275	104.33	1.4	FF 47	6	1.2	2674	1182	1.5	FF 97R57	4
1.5	2052	907	2.0			1.3	2335	1032	1.7		
7.3	306	189.39	1.2	FA 47	4	1.5	2052	907	2.0		
8.0	281	174.13	1.3			0.57kW					
9.3	241	148.98	1.6	FAF47	4	1.1	2941	1300	1.0		
11	209	129.14	1.8	F 47	4	1.2	2597	1148	1.1		
12	195	120.70	1.9	FF 47	4	1.4	2285	1010	1.2	FA 87R57	4
13	168	104.33	2.2			1.6	2007	887	1.4	FAF87R57	4
16	143	88.65	2.6			1.8	1765	780	1.6	F 87R57	4
11	207	128.51	0.9			2.1	1525	674	1.8	FF 87R57	4
12	190	117.88	1.0			2.3	1378	609	2.0		
14	162	100.36	1.2			2.7	1165	515	2.4		
16	140	86.53	1.3			3.1	1023	452	2.8		
17	130	80.65	1.4			0.63kW					
20	114	70.50	1.7			1.7	1833	810	0.77		
21	107	66.09	1.8			2.0	1606	710	0.88		
24	94	58.32	2.0			2.3	1357	600	1.04	FA 77R37	4
25	88	54.54	2.1			2.6	1188	525	1.19	FAF77R37	4
27	83	51.70	2.3			3.0	1061	469	1.33	F 77R37	4
30	76	47.02	2.5			3.4	932	412	1.51	FF 77R37	4
32	71	43.83	2.7			3.9	808	357	1.75		
36	62	38.31	3.0	FA 37	4	4.4	710	314	1.98		
39	58	35.91	3.2	FAF37	4	0.75kW					
44	51	31.69	3.7	F 37	4	3.3	966	427	0.80		
49	45	28.09	4.1	FF 37	4	3.8	828	366	0.93	FA 67R37	4
58	39	23.88	4.9			4.3	731	323	1.05	FAF67R37	4
59	38	23.63	4.9			4.8	656	290	1.17	F 67R37	4
68	33	20.57	5.7			5.4	581	257	1.33	FF 67R37	4
72	31	19.27	6.0			6.3	498	220	1.55		
82	27	17.03	6.8			0.85kW					
88	26	15.81	7.4			5.3	593	262	0.95		
97	23	14.33	8.1			5.6	563	249	1.00		
108	21	12.87	9.0			6.2	511	226	1.10	FA 57R37	4
125	18	11.08	10			7.0	452	200	1.25	FAF57R37	4
133	17	10.42	10			7.1	446	197	1.27	F 57R37	4
155	14	8.97	11			7.7	410	181	1.38	FF 57R37	4
185	12	7.51	11			8.4	376	166	1.50		
						9.1	344	152	1.64		
						10	303	134	1.86		



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



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



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
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						
4.4	1440	314	0.98	FAF77R37	4	17	386	79.72	0.97		
5.1	1247	272	1.13	F 77R37	4	20	330	68.09	1.14		
				FF 77R37	4	21	317	65.36	1.19		
						25	272	56.09	1.38	FA 47	4
						29	231	47.66	1.63	FAF47	4
2.7	2519	255.25	2.9	FA 107	8	33	206	42.55	1.82	F 47	4
				FAF107	8	38	176	36.34	2.1	FF 47	4
				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						
2.7	2523	254.79	1.6	FAF97	8	30	228	47.02	0.83		
3.0	2241	226.34	1.8	F 97	8	32	212	43.83	0.89		
				FF 97	8	36	186	38.31	1.01		
						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		
						68	100	20.57	1.9		
3.3	2012	271.92	1.40	FA 87	6	72	93	19.27	2.0	FA 37	4
3.6	1886	254.93	1.50	FAF87	6	82	82	17.03	2.3	FAF37	4
4.0	1691	228.57	1.67	FAF87	6	97	69	14.33	2.7	F 37	4
4.6	1456	196.85	1.94	F 87	6	108	62	12.87	3.0	FF 37	4
5.1	1324	178.95	2.1	FF 87	6	125	54	11.08	3.3		
5.7	1181	159.61	2.4			133	50	10.42	3.4		
						155	43	8.97	3.8		
5.1	1317	271.92	2.1	FA 87	4	204	33	6.81	4.0		
5.4	1235	254.93	2.3	FAF87	4	227	30	6.11	4.3		
6.1	1107	228.57	2.5	F 87	4	264	26	5.27	4.6		
				FF 87	4	281	24	4.95	4.7		
4.6	1467	198.31	0.96	FA 77	6	326	21	4.26	5.0		
4.8	1394	188.40	1.01	FAF77	6	365	18	3.81	5.3		
5.5	1232	166.47	1.14	F 77	6						
6.4	1053	142.27	1.34	FF 77	6						
7.0	965	130.42	1.46								
6.2	1094	225.79	1.29								
7.0	961	198.31	1.47								
7.4	913	188.40	1.55	FA 77	4						
8.3	806	166.47	1.75	FAF77	4						
9.8	689	142.27	2.0	F 77	4						
11	632	130.42	2.2	FF 77	4						
12	554	114.45	2.5								
13	525	108.46	2.7								
8.1	828	170.85	0.93								
8.6	786	162.31	0.98								
9.8	690	142.40	1.12								
12	585	120.79	1.32	FA 67	4						
13	528	109.04	1.46	FAF67	4						
14	465	95.94	1.66	F 67	4						
15	439	90.59	1.76	FF 67	4						
18	378	77.97	2.0								
21	320	66.13	2.4								
23	289	59.70	2.7								
11	616	127.27	0.91	FA 57	4						
13	533	110.01	1.06	FAF57	4						
15	453	93.47	1.25	F 57	4						
17	404	83.46	1.40	FF 57	4						



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											
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		
						39	253	35.87	2.2		
						46	213	30.22	2.6		
						25	396	56.09	0.95		
						29	336	47.66	1.12		
						33	300	42.55	1.25		
						39	256	36.34	1.47	FA 47	4
						41	240	34.04	1.57	FAF47	4
						46	216	30.64	1.74	F 47	4
						48	205	29.11	1.83	FF 47	4
						49	202	28.67	1.86		
						55	180	25.54	2.1		
						65	153	21.66	2.5		
						72	138	19.56	2.7		
						44	224	31.69	0.84		
						50	198	28.09	0.95		
						59	168	23.88	1.12		
						68	145	20.57	1.30		
						73	136	19.27	1.38		
						82	120	17.03	1.57		
						98	101	14.33	1.86		
						109	91	12.87	2.1	FA 37	4
						126	78	11.08	2.3	FAF37	4
						134	73	10.42	2.4	F 37	4
						156	63	8.97	2.6	FF 37	4
						175	56	8.01	2.7		
						206	48	6.81	2.8		
						229	43	6.11	2.9		
						266	37	5.27	3.2		
						283	35	4.95	3.2		
						329	30	4.26	3.4		
						367	27	3.81	3.7		
1.5kW											
						0.58	22102	2427	0.77		
						0.64	19898	2185	0.85		
						0.72	17703	1944	0.96		
						0.84	15244	1674	1.11	FA 157R97	4
						1.1	11911	1308	1.42	FAF157R97	4
						1.2	10646	1169	1.59	F 157R97	4
						1.5	8679	953	1.95	FF 157R97	4
						1.7	7695	845	2.2		
						3.1	4062	446	4.2		
						4.7	2741	301	6.2		
						0.86	14744	1619	0.77		
						1.0	12758	1401	0.88	FA 127R77	4
						1.1	11201	1230	1.01	FAF127R77	4
						1.3	9881	1085	1.14	F 127R77	4
						1.5	8533	937	1.32	FF 127R77	4
						1.7	7531	827	1.50		
						1.9	6675	733	1.69		
						2.2	5828	640	1.94		
						1.5	8651	950	0.83	FA 107R77	4
						1.7	7595	834	0.95	FAF107R77	4
						1.9	6702	736	1.08	F 107R77	4
						2.2	5710	627	1.26	FF 107R77	4



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
1.5kW											
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		
3.2	4197	215.04	1.76	FAF107	8	28	483	50.22	1.17	FA 57	4
3.5	3890	199.31	1.89	F 107	8	31	431	44.84	1.31	FAF57	4
3.9	3486	178.64	2.1	FF 107	8	37	368	38.30	1.53	F 57	4
3.6	3736	255.25	2.0	FA 107	6	39	345	35.87	1.63	FF 57	4
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						
5.2	2615	178.64	2.8	FF 107	6						
3.3	4049	276.64	1.00	FA 97	6						
3.6	3729	254.79	1.08	FAF97	6						
4.1	3313	226.34	1.22	F 97	6						
4.9	2759	188.50	1.47	FF 97	6						
5.2	2574	178.83	1.57								
5.1	2661	276.64	1.52	FA 97	4						
5.5	2451	254.79	1.65	FAF97	4						
6.2	2177	226.34	1.86	F 97	4						
7.4	1813	188.50	2.2	FF 97	4						
8.0	1691	178.83	2.4								
5.2	2615	271.92	1.08								
5.5	2452	254.93	1.15								
6.1	2198	228.57	1.28								
7.1	1893	196.85	1.49	FA 87	4						
7.8	1721	178.95	1.63	FAF87	4						
8.8	1535	159.61	1.84	F 87	4						
10	1290	134.16	2.2	FF 87	4						
13	1053	109.49	2.7								
14	942	97.89	3.0								
8.4	1601	166.47	0.88								
9.8	1368	142.27	1.03								
11	1254	130.42	1.12								
12	1101	114.45	1.28								
13	1043	108.46	1.35								
15	913	94.93	1.54								
16	823	85.52	1.71								
19	722	75.02	1.95	FA 77	4						
19	695	72.29	2.0	FAF77	4						
21	637	66.28	2.2	F 77	4						
24	559	58.16	2.5	FF 77	4						
25	530	55.12	2.7								
29	464	48.24	3.0								
32	418	43.46	3.0								
37	367	38.12	3.4								
38	352	36.52	3.8								
44	303	31.45	4.3								
2.2kW											
1.00	18699	1420	0.90								
1.09	17224	1308	0.98								
1.21	15394	1169	1.10								
1.49	12549	953	1.35								
1.68	11127	845	1.52								
1.86	10061	764	1.68	FA 157R97	4						
2.1	8954	680	1.89	FAF157R97	4						
2.5	7585	576	2.2	F 157R97	4						
3.2	5873	446	2.9	FF 157R97	4						
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						



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
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		
2.90	6439	489	1.75	F 127R77	4	33	604	43.46	2.1	FA 77	4
3.36	5570	428	2.0	FF 127R77	4	39	509	36.52	2.3	FAF77	4
						45	438	31.45	3.0	F 77	4
						49	400	28.59	3.4	FF 77	4
						56	355	25.50	4.0		
2.3	8256	627	0.89			24	830	59.70	0.93		
2.5	7374	560	1.00	FA 107R77	4	27	731	52.53	1.06		
2.9	6439	489	1.14	FAF107R77	4	29	690	49.60	1.12		
3.3	5623	427	1.31	F 107R77	4	34	587	42.23	1.31		
3.9	4767	362	1.55	FF 107R77	4	37	534	38.38	1.37	FA 67	4
4.3	4306	327	1.71			43	462	33.24	1.50	FAF67	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		
3.9	4833	367	0.84	FA 97R57	4	64	307	22.05	2.5		
4.9	3792	288	1.07	FAF97R57	4	68	291	20.90	2.7		
5.7	3253	247	1.24	F 97R57	4	78	254	18.29	3.0		
						32	624	44.84	0.90		
2.8	7100	255.25	1.02	FA 107	8	37	533	38.30	1.06		
3.3	5982	215.04	1.21	FAF107	8	40	499	35.87	1.13		
3.6	5544	199.31	1.30	F 107	8	47	420	30.22	1.32	FA 57	4
4.0	4969	178.64	1.45	FF 107	8	57	347	24.96	1.56	FAF57	4
						67	294	21.17	1.92	F 57	4
						74	266	19.11	2.1	FF 57	4
3.7	5363	255.25	1.35	FA 107	6	84	234	16.81	2.4		
4.4	4518	215.04	1.60	FAF107	6	89	221	15.88	2.6		
4.7	4188	199.31	1.72	F 107	6	56	355	25.54	1.06		
5.3	3753	178.64	1.92	FF 107	6	66	301	21.66	1.25		
						73	272	19.56	1.38		
5.6	3550	255.25	2.0	FA 107	4	83	239	17.21	1.57	FA 47	4
6.6	2991	215.04	2.4	FAF107	4	87	226	16.25	1.66	FAF47	4
7.1	2772	199.31	2.6	F 107	4	103	192	13.83	1.95	F 47	4
7.9	2485	178.64	2.9	FF 107	4	113	175	12.57	2.2	FF 47	4
						130	151	10.89	2.5		
4.2	4755	226.34	0.85	FA 97	6	156	126	9.08	2.5		
5.0	3960	188.50	1.02	FAF97	6	99	199	14.33	0.94		
5.3	3694	175.83	1.09	F 97	6	110	179	12.87	1.05		
6.0	3302	157.16	1.22	FF 97	6	128	154	11.08	1.16		
						136	145	10.42	1.20		
5.1	3848	276.64	1.05			158	125	8.97	1.32	FA 37	4
5.6	3544	254.79	1.14			177	111	8.01	1.39	FAF37	4
6.3	3148	226.34	1.28	FA 97	4	209	95	6.81	1.43	F 37	4
7.5	2622	188.50	1.54	FAF97	4	232	85	6.11	1.49	FF 37	4
8.1	2445	175.83	1.65	F 97	4	287	69	4.95	1.64		
9.0	2186	157.16	1.85	FF 97	4	333	59	4.26	1.75		
10	1968	141.47	2.1			373	53	3.81	1.86		
11	1782	128.12	2.3								
7.2	2738	196.85	1.03								
7.9	2489	178.95	1.13								
8.9	2220	159.61	1.27								
11	1866	134.16	1.51								
12	1715	123.29	1.64								
13	1523	109.49	1.85	FA 87	4						
15	1361	97.89	2.1	FAF87	4						
16	1224	88.01	2.3	F 87	4						
19	1062	76.39	2.7	FF 87	4						
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								
13	1508	108.46	0.93								
15	1320	94.93	1.07	FA 77	4						
17	1189	85.52	1.19	FAF77	4						
19	1043	75.02	1.35	F 77	4						
21	922	66.28	1.53	FF 77	4						
24	809	58.16	1.74								



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
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
3.3	7668	427	0.96	FA 107R77	4	89	301	15.88	1.87	F 57	4
3.9	6500	362	1.13	FAF107R77	4	105	256	13.52	2.2	FF 57	4
4.3	5872	327	1.26	F 107R77	4	116	233	12.29	2.4		
5.0	5118	285	1.44	FF 107R77	4	133	202	10.64	2.8		
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
5.6	4841	255.25	1.52	FA 107	4	113	238	12.57	1.58	FF 47	4
6.6	4078	215.04	1.81	FAF107	4	130	207	10.89	1.80		
7.1	3780	199.31	1.95	F 107	4	156	172	9.08	1.82		
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		
6.3	4293	226.34	0.94			158	170	8.97	0.97		
7.5	3575	188.50	1.13			177	152	8.01	1.02	FA 37	4
8.1	3335	175.83	1.21			209	129	6.81	1.05	FAF37	4
9.0	2981	157.16	1.36			232	116	6.11	1.10	F 37	4
10	2683	141.47	1.51			269	100	5.27	1.18	FF 37	4
11	2430	128.12	1.66			287	94	4.95	1.20		
12	2155	113.61	1.88			333	81	4.26	1.28		
14	1948	102.72	2.1			373	72	3.81	1.37		
16	1721	90.77	2.3			4.2	19950	845	0.85		
11	2544	134.16	1.11			1.9	18038	764	0.94		
12	2338	123.29	1.21			2.1	16055	680	1.05	FA 157R97	4
13	2077	109.49	1.36			2.5	13599	576	1.24	FAF157R97	4
15	1857	97.89	1.52			3.2	10530	446	1.61	F 157R97	4
16	1669	88.01	1.69			4.8	7107	304	2.4	FF 157R97	4
19	1449	76.39	1.9			5.3	6422	272	2.6		
21	1297	68.40	2.2			6.2	5454	231	3.1		
25	1076	56.75	2.6			7.3	4628	196	3.7		
28	954	50.29	2.9			2.7	12796	542	0.88	FA 127R77	4
17	1622	85.52	0.87			2.9	11545	489	0.98	FAF127R77	4
19	1423	75.02	0.99			3.4	9987	423	1.13	F 127R77	4
21	1257	66.28	1.12			3.9	8759	371	1.29	FF 127R77	4
24	1103	58.16	1.28			4.4	7720	327	0.94	FA 107R77	4
26	1045	55.12	1.35			5.1	6729	285	1.07	FAF107R77	4
29	915	48.24	1.5			6.5	5218	221	1.38	F 107R77	4
33	824	43.46	1.54			4.2	8594	172.33	1.31	FF 107R77	4
37	723	38.12	1.71			4.6	7721	154.81	1.46		
39	694	36.52	1.95			5.7	6269	125.71	1.80	FA 127	8
45	598	31.45	2.2							FAF127	8
49	545	28.59	2.5							F 127	8
56	484	25.50	2.9							FF 127	8
66	406	21.43	3.5								
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			8.1	4455	178.64	1.65	FAF107	4
52	520	27.41	1.48			8.9	4022	161.28	1.83	F 107	4
57	477	25.13	1.62			9.8	3653	146.49	2.02	FF 107	4
64	418	22.05	1.84			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								



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



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



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
7.5kW											
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	FA 87	4	7.7	12864	125.71	0.88	FA 127	6
50	1345	29.16	1.75	FAF87	4	8.4	11732	116.00	0.96	FAF127	6
51	1327	28.41	1.74	F 87	4	10	10153	99.73	1.11	F 127	6
55	1222	26.50	2.3	FF 87	4	11	8958	88.00	1.26	FF 127	6
62	1092	23.68	2.6			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	FA 127	4
85	789	17.12	3.6			12	8502	125.71	1.33	FAF127	4
94	714	15.48	4.0			13	7846	116.00	1.44	F 127	4
43	1551	33.64	0.91			15	6745	99.73	1.67	FF 127	4
49	1375	29.82	1.03			17	5952	88.00	1.90		
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	FA 77	4	17	5681	83.99	1.27		
93	721	15.64	1.95	FAF77	4	20	5040	74.52	1.43	FA 107	4
104	648	14.06	2.2			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											
4.9	19275	301	0.88	FA 157R97	4	32	3040	44.94	1.33	FA 97	4
5.4	17418	272	0.97	FAF157R97	4	37	2655	39.26	1.52	FAF97	4
6.3	14793	231	1.14	F 157R97	4	43	2317	34.26	1.74	F 97	4
7.2	12936	202	1.31	FF 157R97	4	44	2220	32.83	1.82	FF 97	4
7.4	12551	196	1.35			48	2076	30.70	1.95		
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		
5.1	19181	141.80	0.88	FA 157	8	37	2655	39.25	0.96		
5.8	16928	125.14	1.00	FAF157	8	42	2377	35.14	1.03		
6.7	14675	108.49	1.15	F 157	8	50	1972	29.16	1.20		
7.6	13058	96.53	1.30	FF 157	8	55	1792	26.50	1.57	FA 87	4
5.5	18036	177.17	0.94			62	1602	23.68	1.76	FAF87	4
5.9	16729	164.33	1.01			68	1442	21.32	1.96	F 87	4
6.8	14435	141.80	1.17	FA 157	6	76	1306	19.31	2.16	FF 87	4
7.8	12739	125.14	1.33	FAF157	6	85	1158	17.12	2.4		
8.9	11044	108.49	1.53	F 157	6	94	1047	15.48	2.7		
10	9827	96.53	1.72	FF 157	6	111	887	13.12	3.2		
11	8847	86.90	1.91			74	1332	19.70	1.06		
12	8090	79.47	2.1			83	1183	17.49	1.19		
5.5	18042	266.76	0.94			93	1058	15.64	1.33		
6.7	14776	218.46	1.15			104	951	14.06	1.48		
8.2	12053	177.17	1.40	FA 157	4	120	825	12.20	1.61		
8.9	11114	164.33	1.52	FAF157	4	134	739	10.93	1.71	FA 77	4
10	9591	141.80	1.76	F 157	4	156	632	9.35	1.81	FAF77	4
12	8464	125.14	2.0	FF 157	4	176	561	8.30	1.91	F 77	4
13	7338	108.49	2.3			197	502	7.42	2.0	FF 77	4
						219	451	6.67	2.3		
						252	392	5.79	2.6		
						281	351	5.19	2.9		
						340	291	4.30	3.3		



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
15kW											
6.3	20172	231	0.84	FA 157R97	4	55	2444	26.50	1.15		
7.2	17639	202	0.96	F 157R97	4	62	2184	23.68	1.29		
7.4	17115	196	0.99	FF 157R97	4	68	1966	21.32	1.43		
						76	1781	19.31	1.58		
						85	1579	17.12	1.79		
6.8	19685	141.80	0.86	FA 157	6	94	1428	15.48	1.84		
7.8	17372	125.14	0.97	FAF157	6	111	1210	13.12	1.98	FA 87	4
8.9	15061	108.49	1.12	F 157	6	127	1057	11.46	2.1	FAF87	4
10	13400	96.53	1.26	FF 157	6	152	884	9.58	2.3	F 87	4
11	12063	86.90	1.40			173	780	8.46	2.5	FF 87	4
						195	692	7.50	2.7		
						215	625	6.78	2.8		
6.7	20143	218.40	0.84			254	530	5.75	2.8		
8.2	16340	177.17	1.04			291	463	5.02	3.1		
8.9	15156	164.33	1.12			348	387	4.20	3.5		
10	13078	141.80	1.29	FA 157	4						
12	11542	125.14	1.47	FAF157	4						
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								
9.7	13844	99.73	0.81	FA 127	6						
11	12216	88.00	0.92	FAF127	6						
13	10550	76.00	1.07	F 127	6						
14	9803	70.62	1.15	FF 127	6						
15	8941	64.41	1.26								
12	11594	125.71	0.97								
13	10699	116.00	1.05	FA 127	4						
15	9198	99.73	1.23	FAF127	4						
17	8116	88.00	1.39	F 127	4						
19	7009	76.00	1.61	FF 127	4						
21	6513	70.62	1.73								
16	8528	92.47	0.85								
16	8161	88.49	0.88								
17	7746	83.99	0.93								
20	6873	74.52	1.05	FA 107	4						
22	6237	67.62	1.16	FAF107	4						
25	5360	58.12	1.35	F 107	4						
29	4679	50.73	1.54	FF 107	4						
34	3969	43.03	1.82								
39	3469	37.61	2.1								
43	3116	33.78	2.3								
46	2933	31.80	2.5								
53	2530	27.43	2.8								
58	2334	25.31	3.1								
67	2007	21.76	3.6								
32	4145	44.94	0.98								
37	3621	39.26	1.12								
43	3160	34.26	1.28								
44	3028	32.83	1.33	FA 97	4						
48	2831	30.70	1.43	FAF97	4						
53	2557	27.72	1.58	F 97	4						
58	2322	25.18	1.74	FF 97	4						
65	2060	22.34	1.96								
72	1869	20.27	2.2								
84	1607	17.42	2.5								
96	1403	15.21	2.9								
113	1190	12.90	3.4								
129	1040	11.28	3.9								



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
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								
256	650	5.75	2.2								
296	567	5.02	2.5								
350	474	4.20	2.9								
22kW						30kW					
10	19654	96.53	0.86	FA 157	6	14	19876	108.49	0.85		
11	17693	86.90	0.96	FAF157	6	15	17685	96.53	0.96		
12	16180	79.47	1.05	F 157	6	17	15920	86.90	1.06	FA 157	4
14	14079	69.15	1.20	FF 157	6	18	14559	79.47	1.16	FAF157	4
10	19051	141.80	0.89			21	12669	69.15	1.34	F 157	4
12	16813	125.14	1.01			24	11179	61.02	1.51	FF 157	4
14	14576	108.49	1.16			28	9693	52.91	1.75		
15	12969	96.53	1.30			31	8623	47.07	2.0		
17	11675	86.90	1.45	FA 157	4	36	7433	40.57	2.3		
18	10677	79.47	1.58	FAF157	4						
21	9290	69.15	1.82	F 157	4						
24	8198	61.02	2.1	FF 157	4						
28	7108	52.91	2.4								
31	6324	47.07	2.7								
36	5451	40.57	3.1								
45	4430	32.97	3.8								
15	13399	99.73	0.84								
17	11823	88.00	0.95								
19	10211	76.00	1.10	FA 127	4						
21	9488	70.62	1.19	FAF127	4						
23	8653	64.41	1.30	F 127	4						
26	7489	55.74	1.51	FF 127	4						
30	6609	49.19	1.71								
35	5707	42.48	1.98								
25	7808	58.12	0.92								
29	6816	50.73	1.06								
34	5781	43.03	1.25								
39	5053	37.61	1.43	FA 107	4						
44	4540	33.78	1.59	FAF107	4						
46	4272	31.08	1.69	F 107	4						
54	3685	27.43	1.96	FF 107	4						
58	3400	25.31	2.1								
68	2923	21.76	2.5								
77	2580	19.20	2.8								
53	3724	27.72	1.09								
58	3383	25.18	1.19								
66	3001	22.34	1.35	FA 97	4						
73	2723	20.27	1.48	FAF97	4						
84	2340	17.42	1.73	F 97	4						
97	2043	15.21	2.0	FF 97	4						
114	1733	12.90	2.3								
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						



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
37kW											
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		
						177	2276	8.34	2.2		
15	22261	99.19	0.51			201	2012	7.37	2.3		
27	12509	55.74	0.90			239	1692	6.20	2.6		
45kW											
15	22261	99.19	0.51			24	20357	61.02	0.83		
27	12509	55.74	0.90			28	17651	52.91	0.96		
35	9534	42.48	1.18			31	15703	47.07	1.08	FA 157	4
39	8432	37.57	1.31			36	13534	40.57	1.25	FAF157	4
47	7087	31.58	1.34			45	10999	32.97	1.54	F 157	4
55	6077	26.92	1.86			53	9328	27.96	1.66	FF 157	4
60	5557	24.97	1.45	FA 127	4	58	8484	25.43	1.81		
69	4836	21.55	2.3	FAF127	4	67	7393	22.16	2.3		
78	4266	19.01	2.4	F 127	4	75	6595	19.77	2.4		
90	3699	16.48	2.8	FF 127	4	88	5621	16.85	3.0		
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		
						271	1821	5.46	3.1		
						320	1545	4.63	3.7		
45kW											
21	18874	69.15	0.90			75kW					
24	16655	61.02	1.02	FA 157	4	31	21413	47.07	0.79		
28	14442	52.91	1.17	FAF157	4	36	18456	40.57	0.92		
31	12848	47.07	1.32	F 157	4	45	14999	32.97	1.13		
36	11074	40.57	1.53	FF 157	4	53	12719	27.96	1.22	FA 157	4
45	8999	32.97	1.88			58	11569	25.43	1.33	FAF157	4
53	7632	27.96	2.2			67	10081	22.16	1.68	F 157	4
						75	8994	19.77	1.78	FF 157	4
30	13426	49.19	0.84			88	7665	16.85	2.2		
35	11595	42.48	0.97			106	6351	13.96	2.5		
39	10255	37.57	1.08			124	5423	11.92	2.8		
47	8620	31.58	1.10								
55	7391	26.92	1.18			58	11600	25.50	0.97		
58	6960	25.50	1.31			69	9803	21.55	1.2		
60	6758	24.97	1.62	FA 127	4	78	8648	19.01	1.2		
69	5882	21.55	1.92	FAF127	4	90	7497	16.48	1.4		
78	5189	19.01	2.0	F 127	4	101	6674	14.67	1.5	FA 127	4
90	4498	16.48	2.3	FF 127	4	117	5750	12.64	1.6	FAF127	4
101	4004	14.67	2.6			144	4672	10.27	1.6	F 127	4
117	3450	12.64	2.7			169	3985	8.76	1.7	FF 127	4
144	2803	10.27	2.8			190	3544	7.79	1.9		
169	2391	8.76	2.9			220	3057	6.72	2.2		
190	2126	7.79	3.2			271	2484	5.46	2.3		
220	1834	6.72	3.6			320	2106	4.63	2.7		
271	1490	5.46	3.8								



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
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											
				FA 157	4						
88	16243	16.85	1.04	FAF157	4						
107	13457	13.96	1.19	F 157	4						
125	11491	11.92	1.31	FF 157	4						
200kW											
				FA 157	4						
88	20304	16.85	0.83	FAF157	4						
107	16821	13.96	0.95	F 157	4						
125	14363	11.92	1.05	FF 157	4						

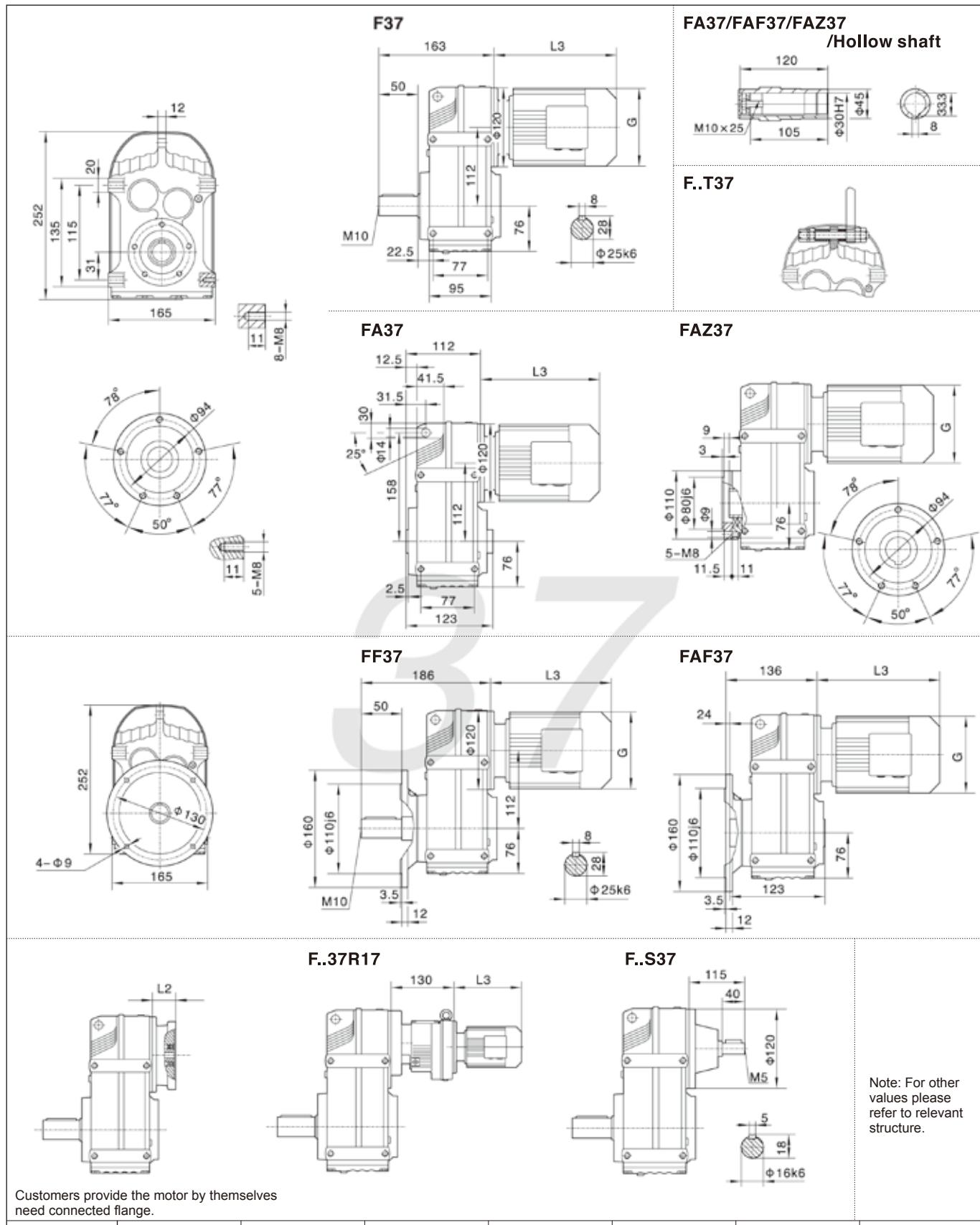


Permissible torque					Permissible torque				
	Output speed	Ratio	Type	Power		Output speed	Ratio	Type	Power
	Nm	r/min	i	kW/4p		Nm	r/min	i	kW/4p
200	5.3	262			1500	2.3	600		
	6.1	229				2.6	525	FA 77R37	0.55
	7.0	200	FA 37R17	0.18		3.0	469	FAF77R37	
	8.2	170	FAF37R17			3.4	412	F 77R37	
	9.1	153	F 37R17			3.9	357	FF 77R37	0.75
	10	133	FF 37R17	0.25		4.4	314		
	11	129							
400	2.5	563			3000	0.33	4245		
	2.9	477				0.37	3721		0.18
	3.1	445		0.18		0.43	3244		
	3.6	389				0.48	2881		
	4.0	346				0.54	2575		
	4.6	304	FA 47R17			0.63	2199		0.25
	4.7	293	FAF47R17	0.25		0.72	1930		
	6.0	230	F 47R17			0.81	1709	FA 87R57	0.37
	6.4	216	FF 47R17			0.93	1493	FAF87R57	
	7.4	188		0.37		1.1	1300	F 87R57	
600	7.9	176				1.2	1148	FF 87R57	0.55
	9.4	148		0.55		1.4	1010		
	11	130				1.6	887		
	1.6	856				1.8	780		0.75
	1.9	749		0.18		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	FA 57R37						
820			FAF57R37		4300	0.21	6532		
	4.2	330	F 57R37			0.24	5696		
	4.7	298	FF 57R37	0.37		0.28	5032		0.18
	5.3	262				0.32	4375		
	6.2	226				0.35	3946		
	7.0	200		0.55		0.41	3404		0.25
	8.4	166				0.47	2949		
	9.1	152		0.75		0.54	2590		
	10	134				0.61	2267		0.37
	1.2	1126				0.70	1989		
1500	1.4	984		0.18		0.80	1739		
	1.6	864				0.90	1542	FA 97R57	0.55
	1.9	722				1.0	1340	FAF97R57	
	2.2	633				1.2	1182	F 97R57	
	2.6	527	FA 67R37			1.3	1032	FF 97R57	0.75
	2.8	500	FAF67R37			1.5	907		
	3.1	454	F 67R37			1.8	796		1.1
	3.5	392	FF 67R37	0.37		2.0	700		
	4.2	333				2.3	611		
	4.7	297				2.6	534		1.5
1500	5.3	261				3.0	472		
	5.8	238				3.5	410		
	7.0	200		0.75		3.9	367		2.2
	0.7	2024				4.9	288		
	0.81	1728				5.7	247		3
	0.91	1543			7840	0.12	11347		
	1.03	1354	FA 77R37			0.14	10039		
	1.2	1196	FAF77R37			0.16	8548	FA 107R77	0.18
	1.3	1050	F 77R37	0.25		0.18	7675	FAF107R77	
	1.5	907	FF 77R37			0.21	6615	F 107R77	
	1.7	810		0.37		0.24	5820	FF 107R77	
	2.0	710				0.27	5223		0.25

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



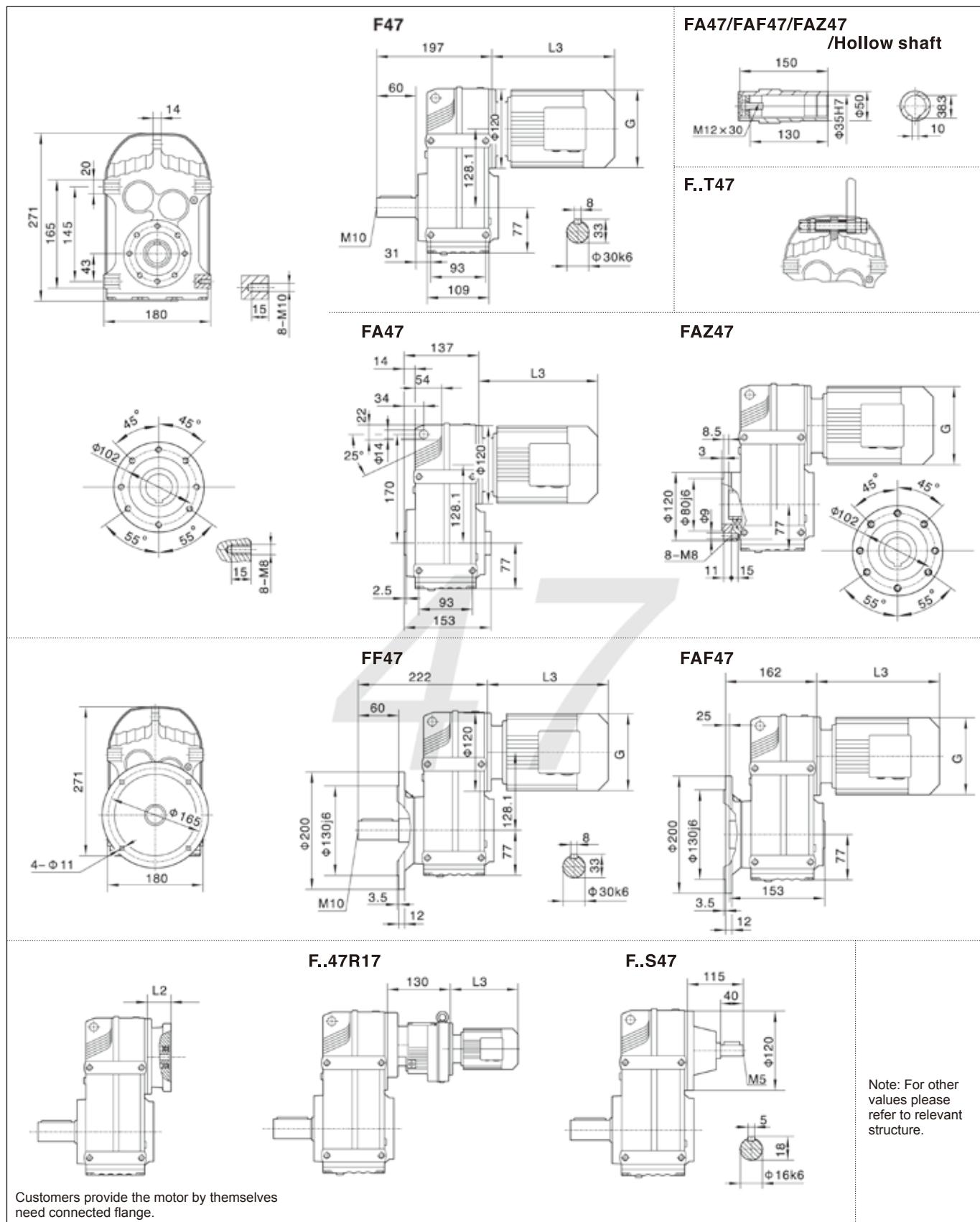
Permissible torque Nm	Output speed r/min	Ratio i	Type	Power kW/4p	Permissible torque Nm	Output speed r/min	Ratio i	Type	Power kW/4p
					7840	18000	12000	F	
0.30 0.40 0.46 0.50 0.59 0.67 0.76 0.88 1.0 1.1 1.3 1.5 1.7 1.9 2.3 2.5 2.9 3.3 4.0 4.3	4567 3442 3037 2756 2369 2068 1826 1597 1401 1243 1087 950 834 736 627 560 489 427 362 333	0.37 0.55 0.75 0.22 1.1 1.5 2.2 3 4	FA 107R77 FAF107R77 F 107R77 FF 107R77 FA 127R77 FAF127R77 F 127R77 FF 127R77	0.04 0.05 0.06 0.07 0.08 0.09 0.10 0.11 0.20 0.22 0.26 0.28 0.14 0.16 0.17 0.29 0.34 0.50 0.57 0.64 0.39 0.44 0.73 0.85 1.00 1.1 1.2 1.5 1.7 1.9 2.1 2.5 2.9 3.3 4.9 5.4 6.3 7.2 4.9 1.5 1.7 1.9 2.1 2.5 2.9 3.3 4.9 5.4 6.3 7.2 4.9 1.2 1.3 1.5 1.7 1.9 2.1 2.5 2.7 2.9 3.1 3.3 3.5 3.9 4.17 3.73 4.7 5.0 7.3	31434 26173 23464 20212 17984 16358 13751 12235 7065 6286 5404 0.55 0.75 1.1 1.5 2.2 3 4 5.5 11 15 18.5				



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	
G	130		145		175		195	215	
L2	71		71		71		71	93	

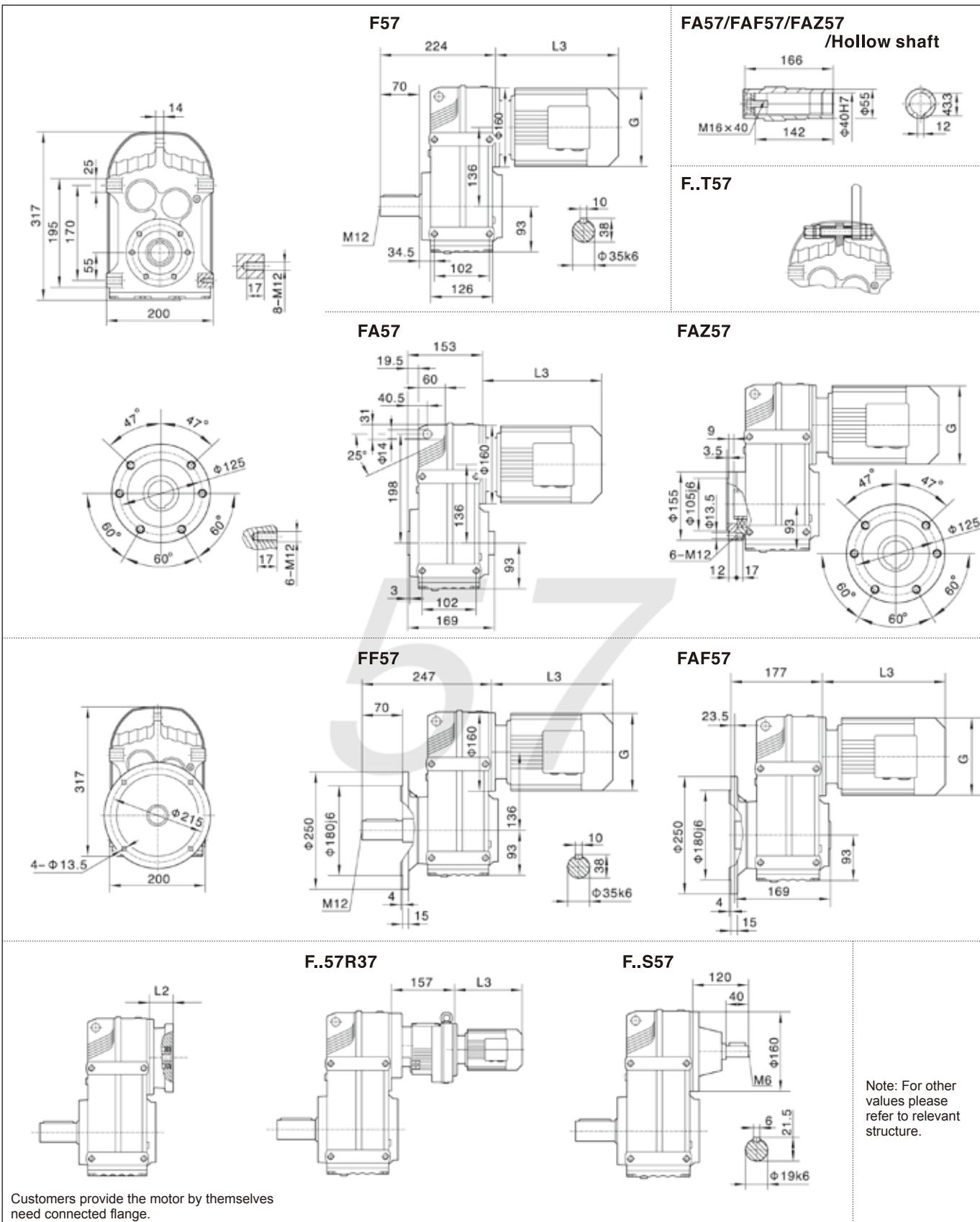
Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2. "F..." means F, FA, FF, FAF, FAZ.



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
L3	235	245	278	304	328	340	
G	130	145	175	195	195	215	
L2	71	71	71	71	71	93	

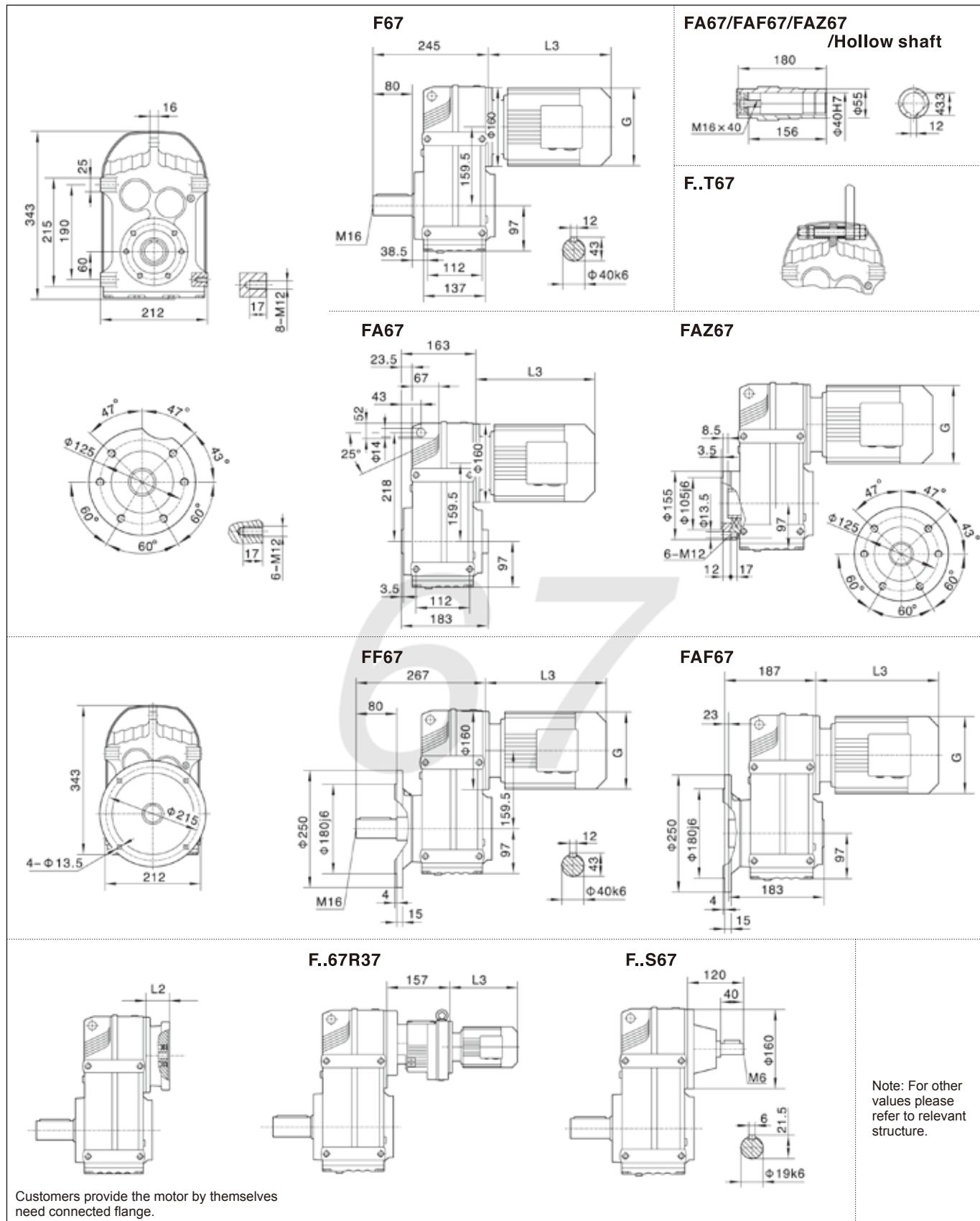
Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2. "F..." means F, FA, FF, FAF, FAZ.



Customers provide the motor by themselves
need connected flange.

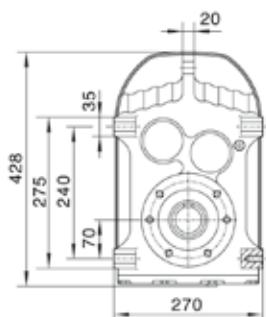
Motor size	63	71	80	90S	90L	100	112M	132S
Power/(kW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2
L3	223	245	278	304	328	350	380	425
G	130	145	175	195	195	215	240	275
L2	81	81	81	81	81	93	93	101

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

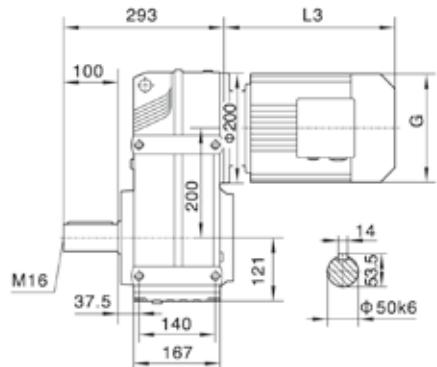


Motor size	63	71	80	90S	90L	100	112M	132S
Power/(kW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2
L3	223	245	278	304	328	350	380	425
G	130	145	175	195	195	215	240	275
L2	81	81	81	81	81	93	93	101

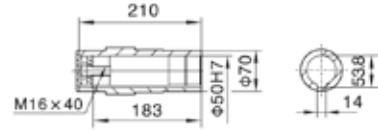
Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2. "F..." means F, FA, FF, FAF, FAZ.



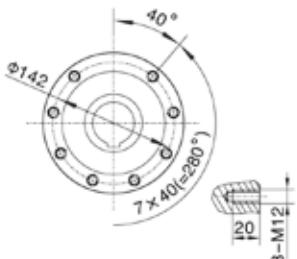
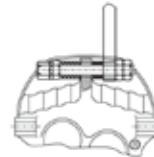
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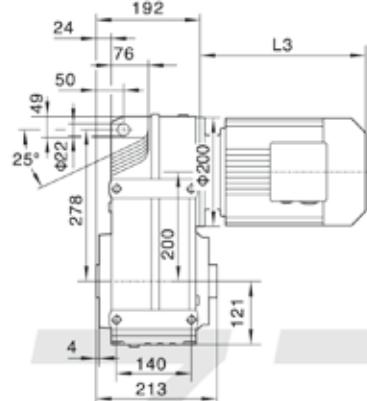
FA77/FAF77/FAZ77 /Hollow shaft



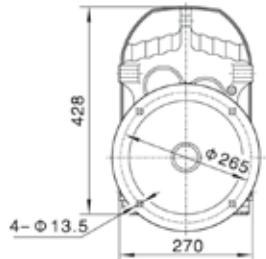
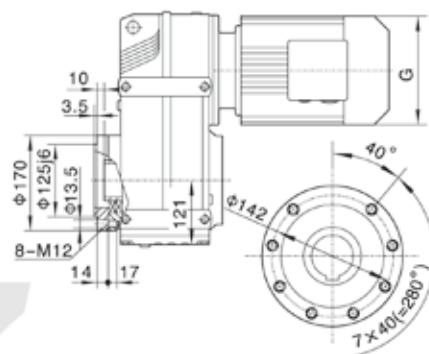
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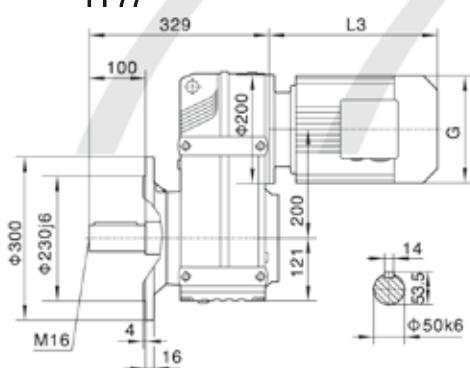
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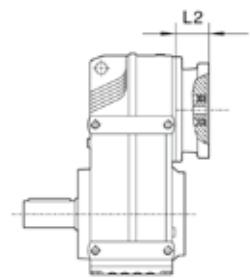
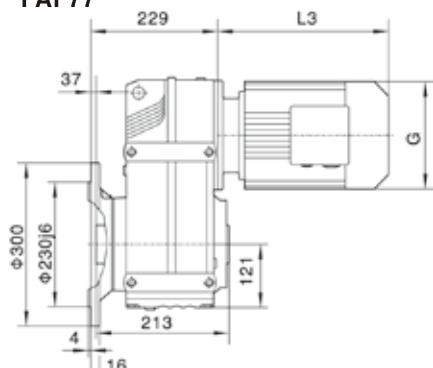
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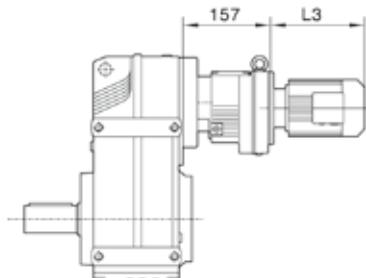
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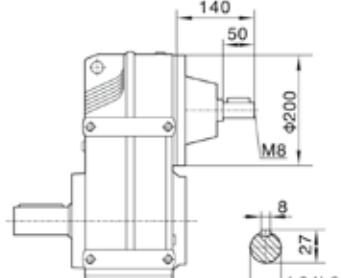
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F..S77

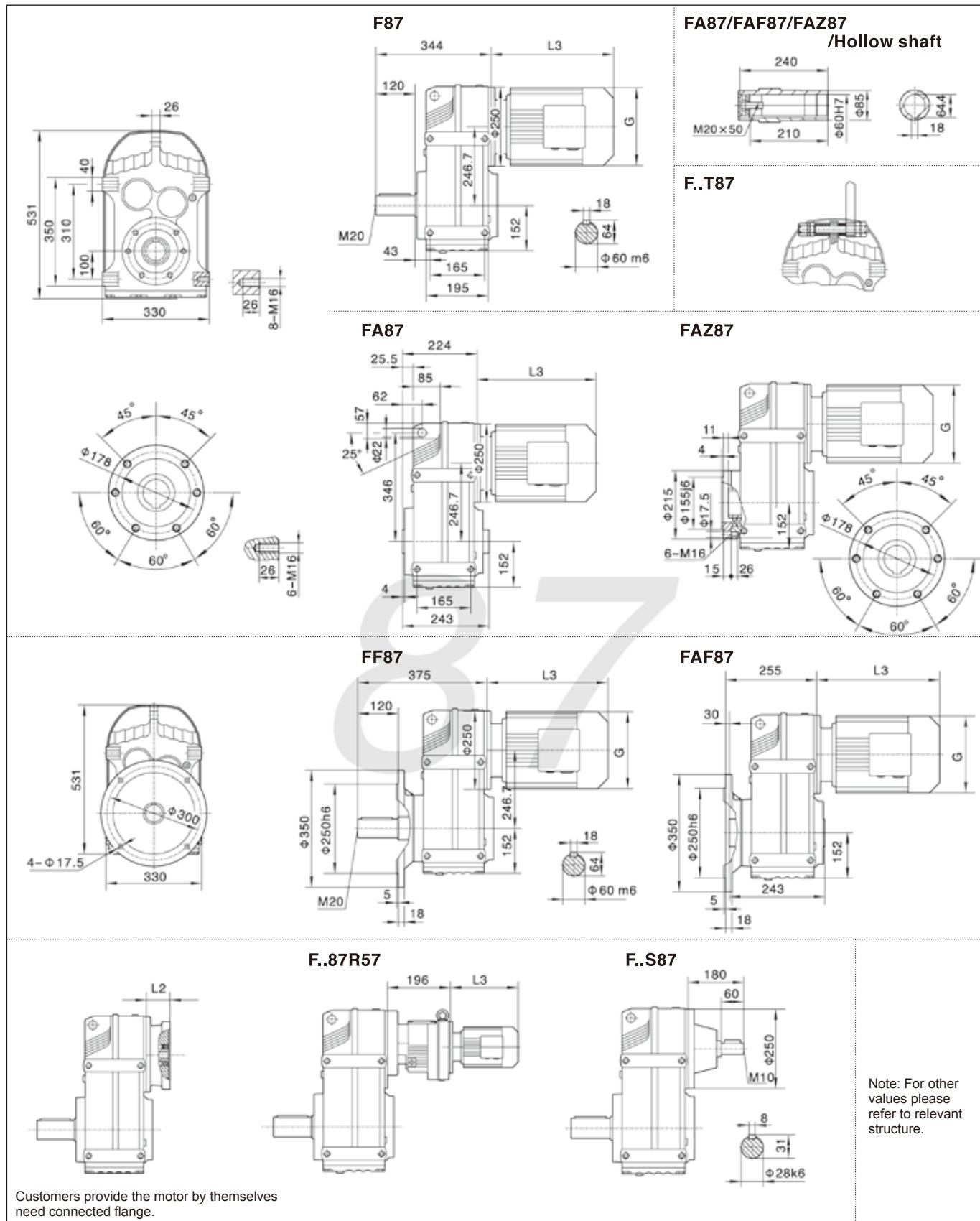


Note: For other values please refer to relevant structure

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

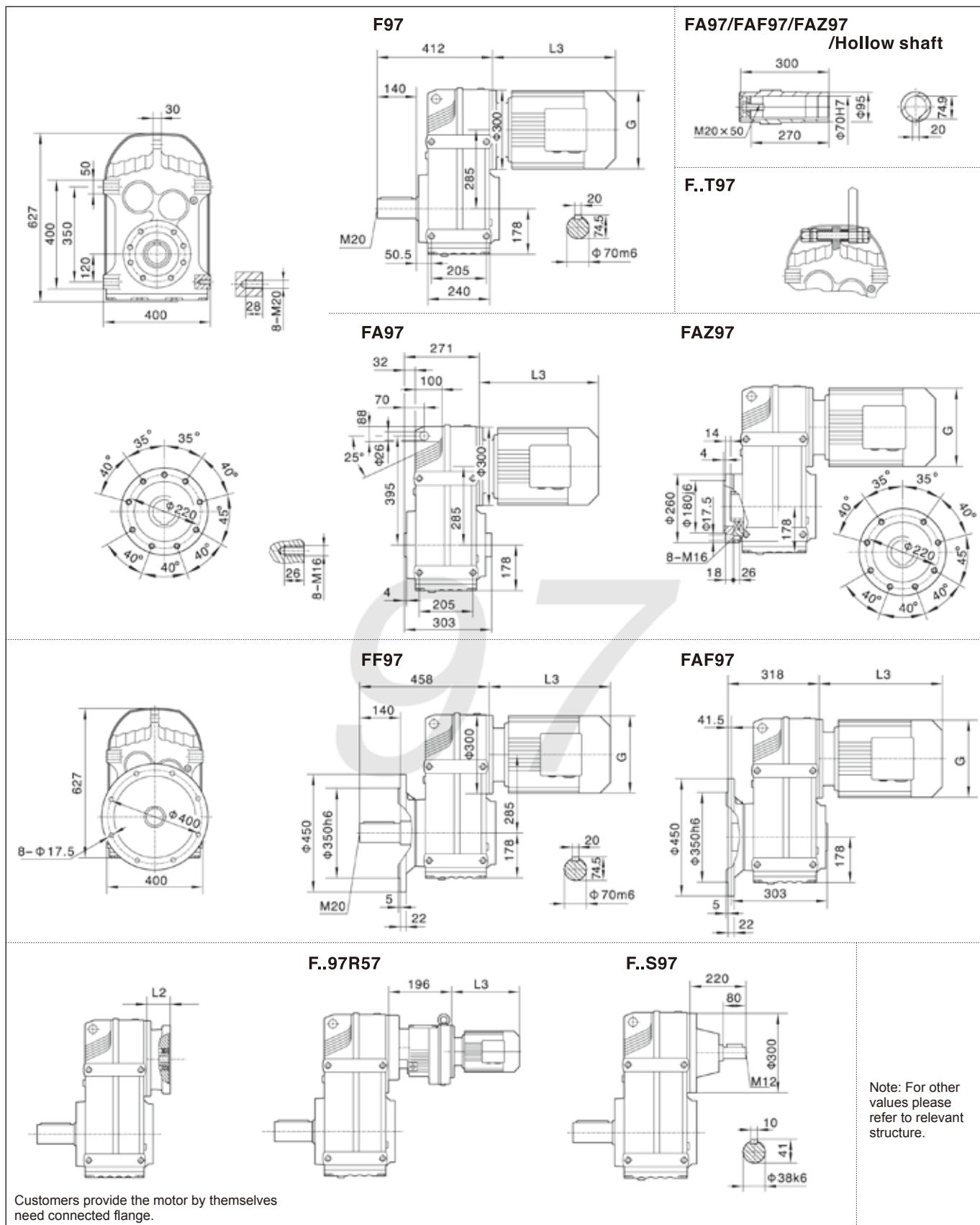
Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2. "F..." means F, FA, FF, FAF, FAZ.



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	18.5
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

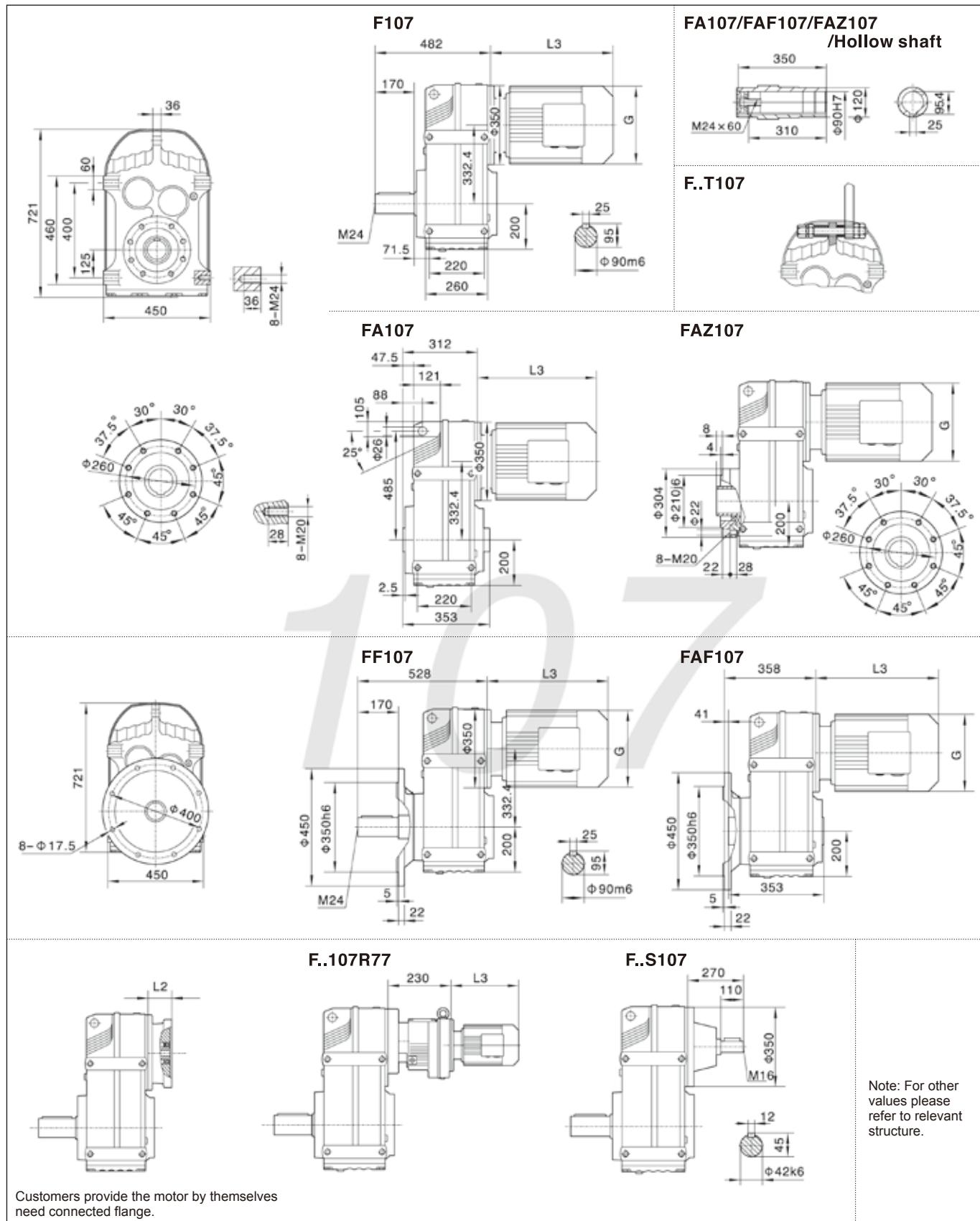
Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2. "F..." means F, FA, FF, FAF, FAZ.



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	22	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

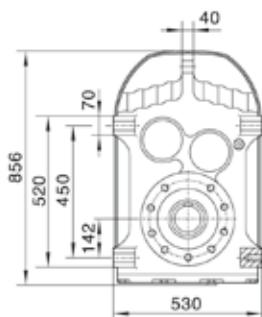
Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2. "F..." means F, FA, FF, FAF, FAZ.



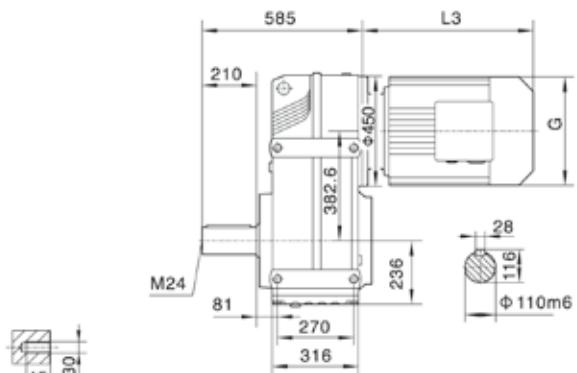
Customers provide the motor by themselves
need connected flange.

Motor size	100	112M	132S	132M	160M	160L	180M	180L	200	225S	225M
Power/(kW)	2.2	3	4	5.5	7.5	11	15	18.5	22	30	37
L3	318	334	386	422	504	519	555	588	654	680	702
G	215	240	275	275	330	330	380	380	420	470	470
L2	101	101	101	101	126	126	126	126	132	132	132

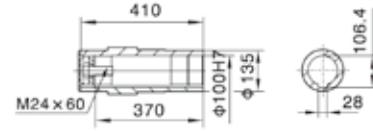
Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2. "F..." means F, FA, FF, FAF, FAZ.



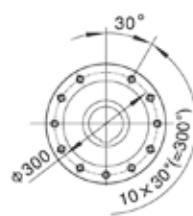
F127



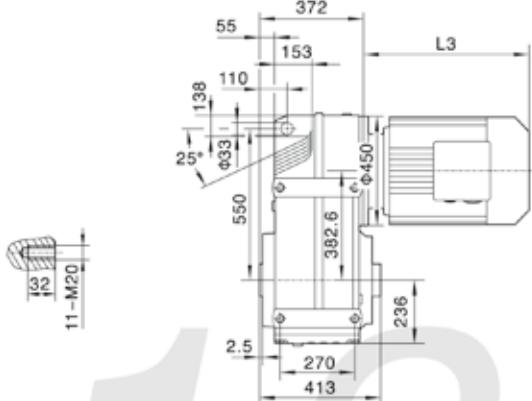
FA127/FAF127/FAZ127
/Hollow shaft



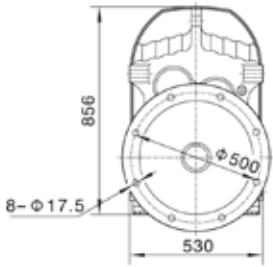
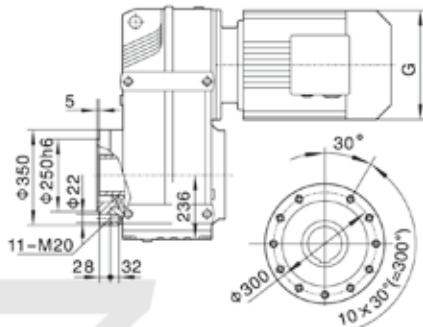
F..T127



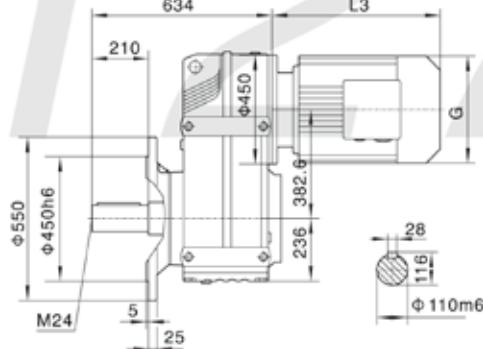
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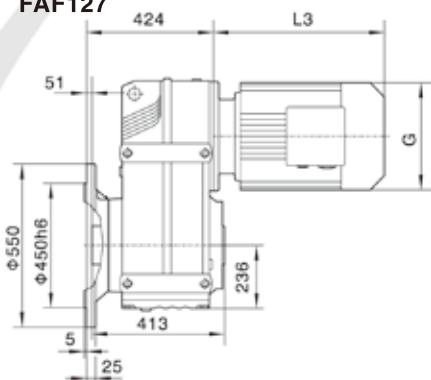
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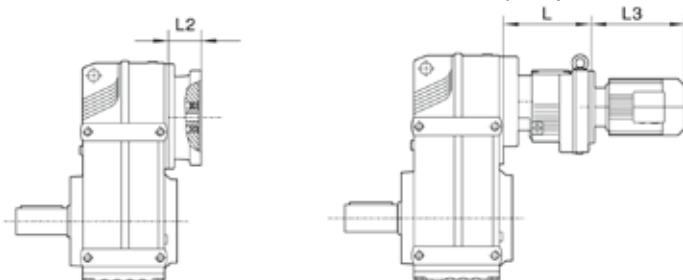
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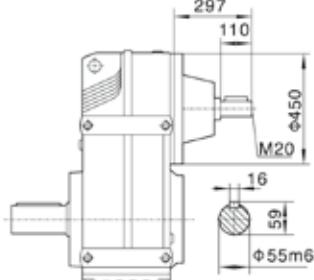
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F..127R77(R87)



F..S127

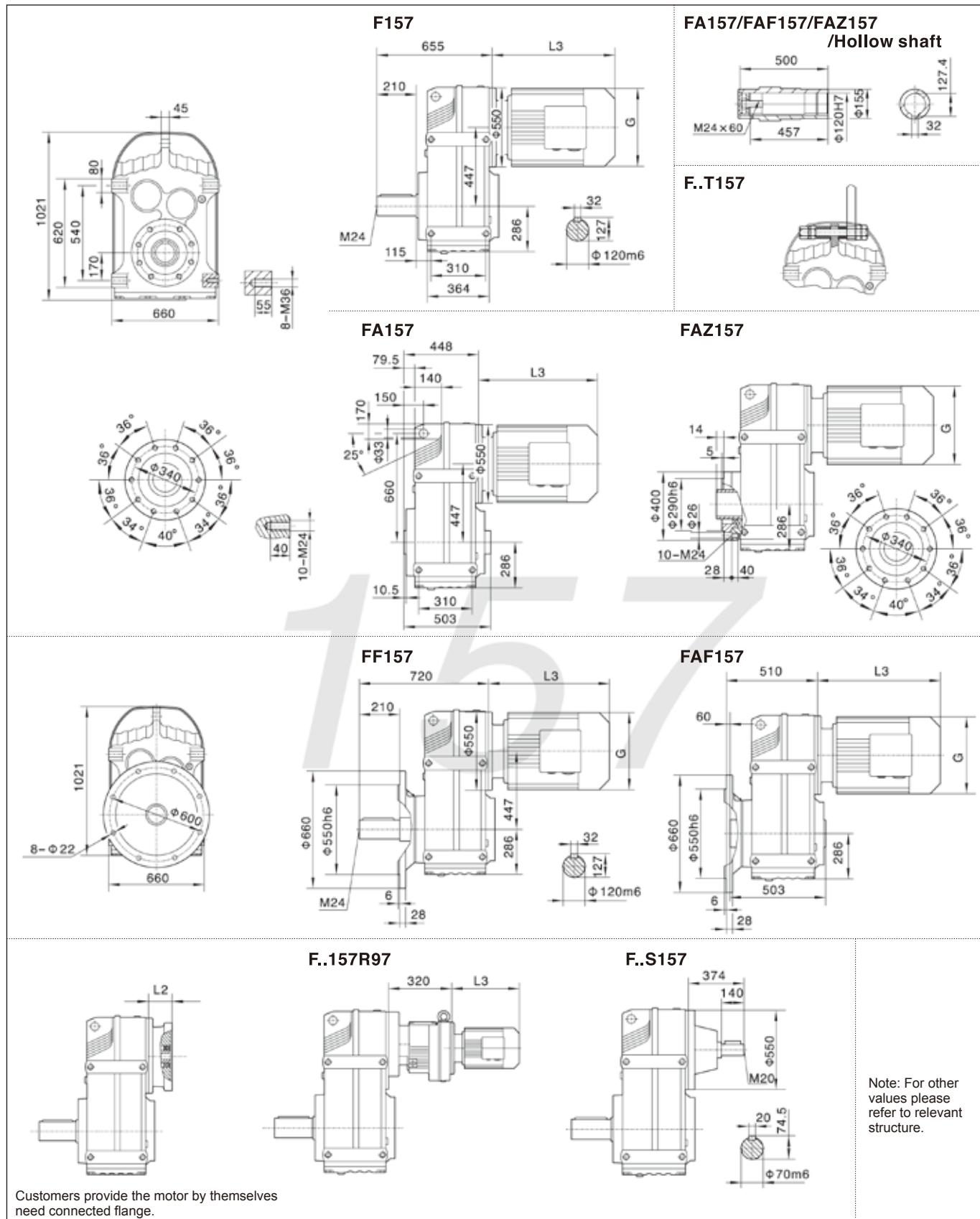


Note: For other values please refer to relevant structure

Customers provide the motor by themselves
need connected flange.

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.



Customers provide the motor by themselves
need connected flange.

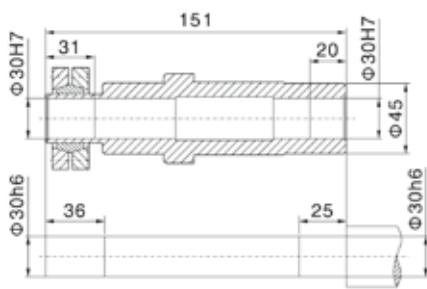
Motor size	160M	160L	180M	180L	200	225S	225M	250	280S	280M	315S	315M	315L
Power/(kW)	11	15	18.5	22	30	37	45	55	75	90	110	132	160
L3	567	602	635	666	642	669	691	770	828	879	1100	1180	1270
G	330	330	380	380	420	470	470	510	580	580	645	645	645
L2	143	143	143	143	143	143	143	143	143	143	145	145	145

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

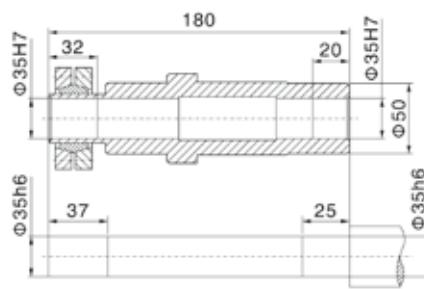


Dimensions of shrink disc

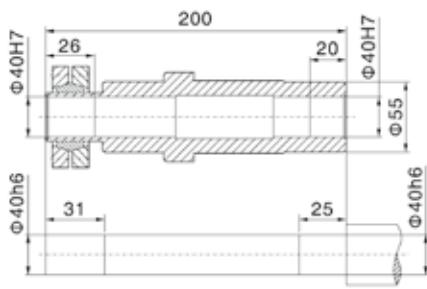
FH..37..



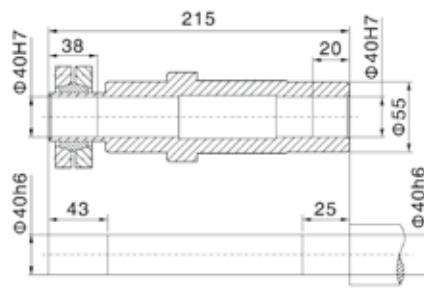
FH..47..



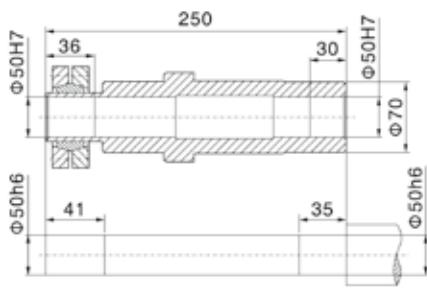
FH..57..



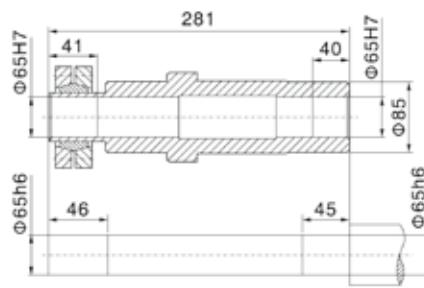
FH..67..



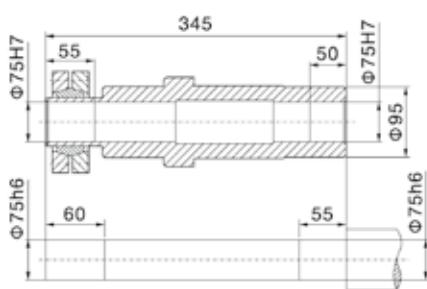
FH..77..



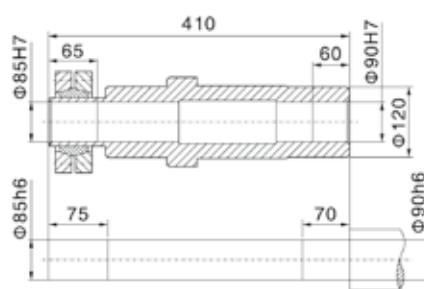
FH..87..



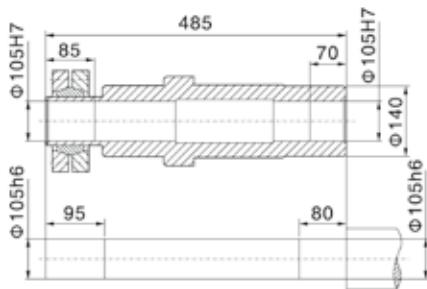
FH..97..



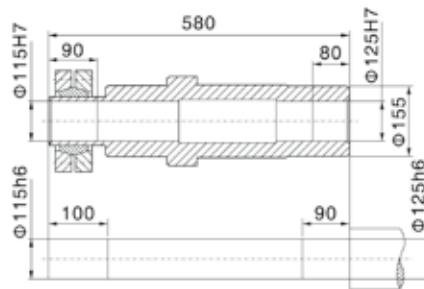
FH..107..

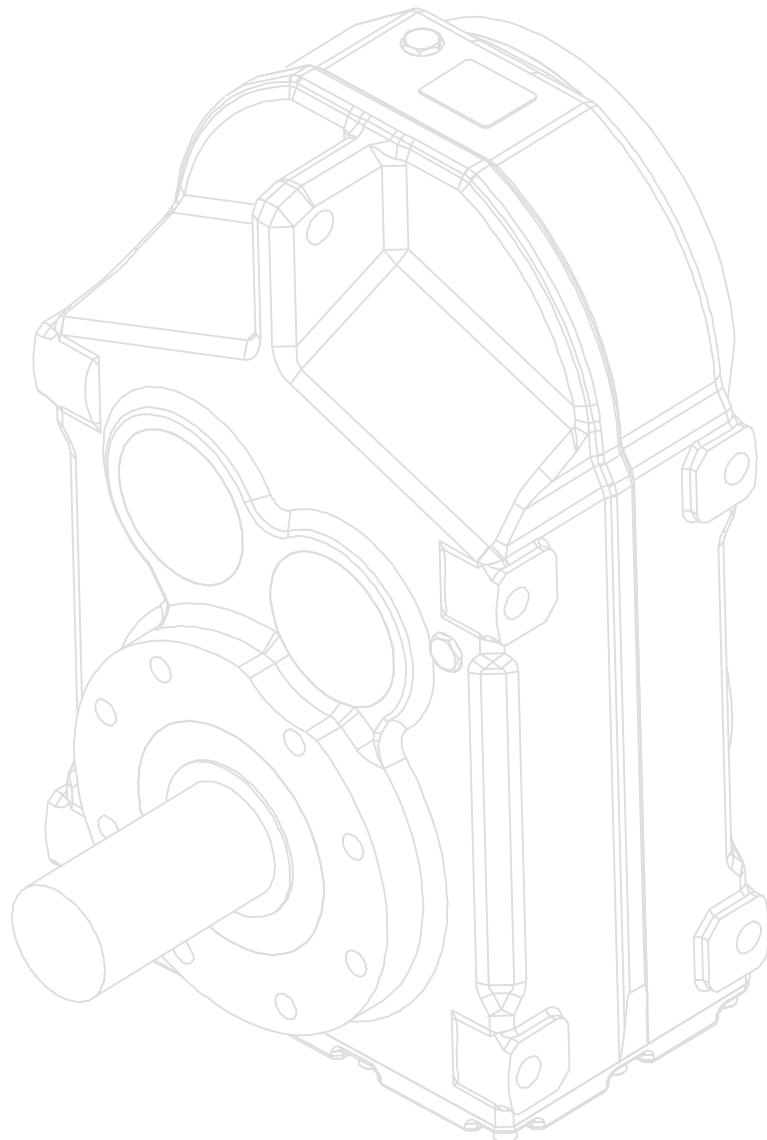


FH..127..



FH..157..





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