



Gongfu Permanent Magnet Motor

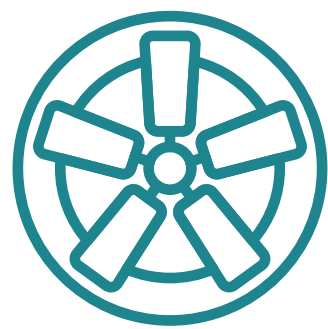
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Gongfu Intelligent Equipment—A Rising Leader in Animal Husbandry & Environmental Control.

Hubei Gongfu Intelligent Equipment Co., Ltd. specializes in the R&D and manufacturing of Fan Motors, Bulk Feed Trucks, Livestock and Poultry Transport Vehicles, and Automated Feeding Equipment. We integrate design, R&D, production, and engineering services into one complete solution. With over 10 years of technical accumulation and multiple core intellectual property rights, we continuously drive the upgrading of animal husbandry equipment and are a recognized modern comprehensive solution provider in the industry.

Gongfu Industrial Park is equipped with top-tier production and testing facilities: large-scale FRP fan shell molding equipment, fully automatic fan assembly lines, a professional wind tunnel laboratory built to AMCA international standards, motor comprehensive test systems, terminal inspection systems, and automatic cooling pad production lines. Full-process quality control ensures every product meets high-quality standards.

Permanent Magnet Synchronous Brushless Motors are the core power of modern industrial equipment.

Compared with traditional motors, PM Motor features high efficiency, energy saving, digital control, and chip-driven operation, representing the direction of next-generation motor technology. They achieve IE4 energy efficiency and save more than 30% energy. Based in China and reaching globally, Gongfu exports products to more than 80 countries and regions including Southeast Asia, West Asia, Africa, Europe, and America. Our export-oriented development strategy has achieved remarkable results.

Rooted in technology and trusted for quality, Gongfu PM Motor is widely applied in animal husbandry and are expanding into industrial and civil fields. Gongfu has become a leading rising enterprise in animal husbandry equipment.



30%

Save over 30% electric than
traditional motors

91%

IE4 level
comprehensive efficiency above 91%

90000

Annual 90,000 units of PM Motors and fans
2 automated production lines

80

Global market for over 80 countries
with an export ratio of approximately 30%

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1. Material Selection: Quality Controlled from the Source

We strictly select permanent magnets with excellent magnetic energy product, coercivity, and remanence, which define the motor's efficiency. High-quality cold-rolled non-oriented silicon steel is used for the stator core to ensure low temperature rise and high efficiency during long-term operation. High-purity oxygen-free copper wire guarantees stable performance in high-temperature, high-humidity, and high-dust environments.



2. Stamping and Core Lamination: Precision Starts at 0.02mm

Silicon steel sheets are stamped with high-precision molds. Burr height is controlled within 0.02mm.

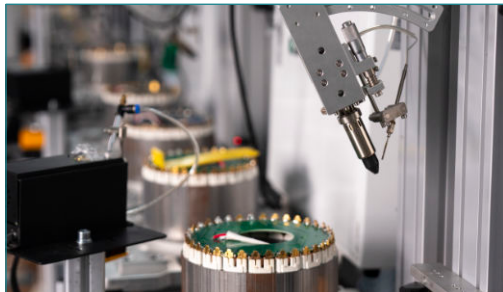
High-strength insulation paper is applied to prevent insulation breakdown between coils and core.



3. Fully Automatic CNC Winding: Precise Coil Manufacturing

Full-automatic CNC winding machines accurately control turns, tension, and arrangement.

Winding error $\leq \pm 1$ turn. Real-time tension monitoring avoids insulation damage.



4. Laser Welding: Precise, Zero-Defect Joints

Laser welding features small heat-affected zone, stable energy, uniform solder joints, and low resistance.

The automated process ensures full traceability of all welding parameters.



5. Automatic Assembly Line: Efficiency & Precision

Intelligent assembly line with 6-axis collaborative robots completes magnet handling, orientation, and press-fitting.

This greatly improves assembly accuracy and product yield.



6. Complete Factory Inspection: Every Motor Has a Health Record

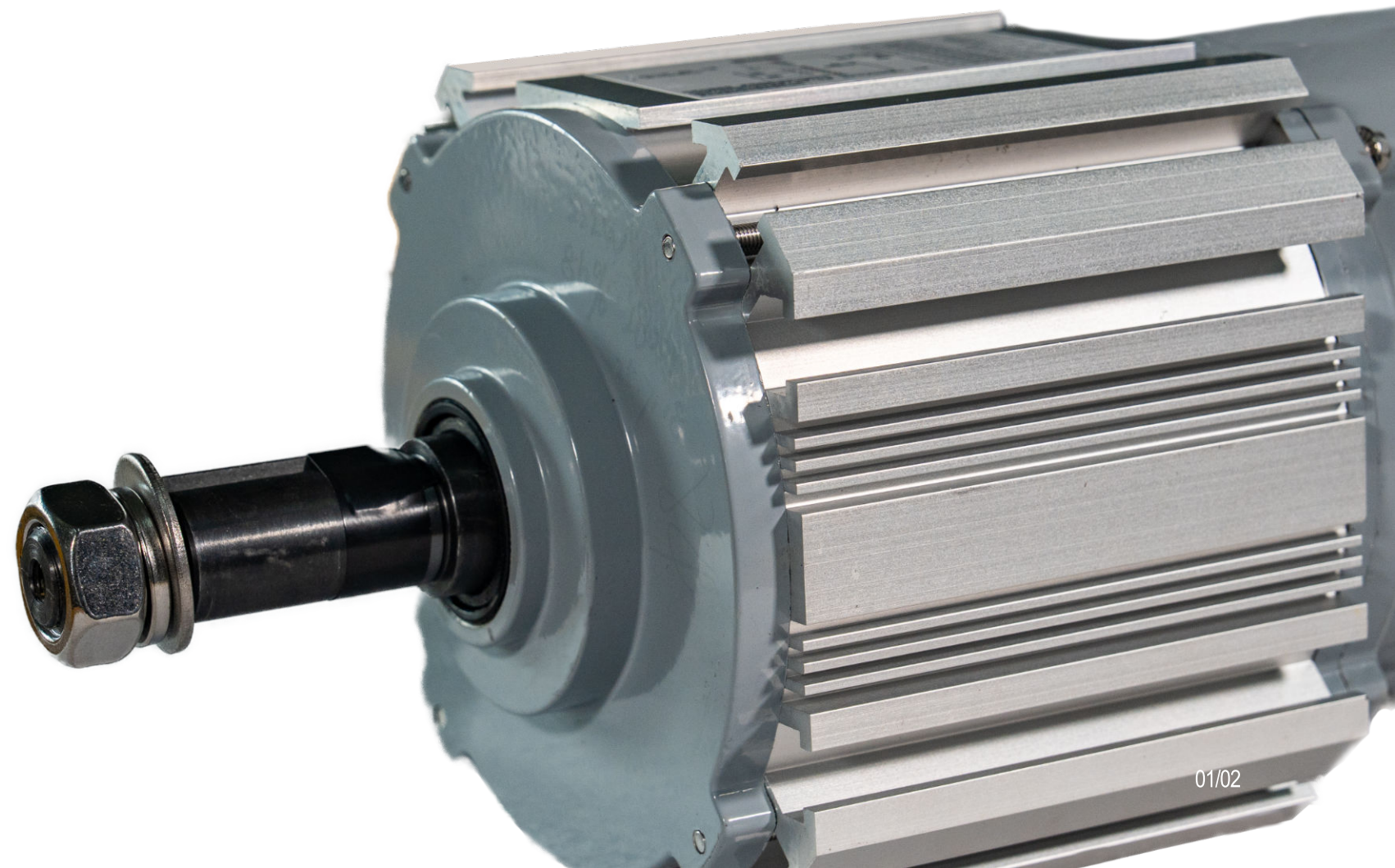
Each motor undergoes full performance testing: no-load current, efficiency curve, temperature rise, vibration and noise, insulation resistance, and voltage withstand test. All data is recorded and archived.

A Qualified PM Motor Must Pass Six Strict Procedures

A PM Motor can serve for more than 20 years, and its quality is determined from the moment the first raw material enters the warehouse.

Gongfu has long been engaged in motor manufacturing, and always upholds one belief:

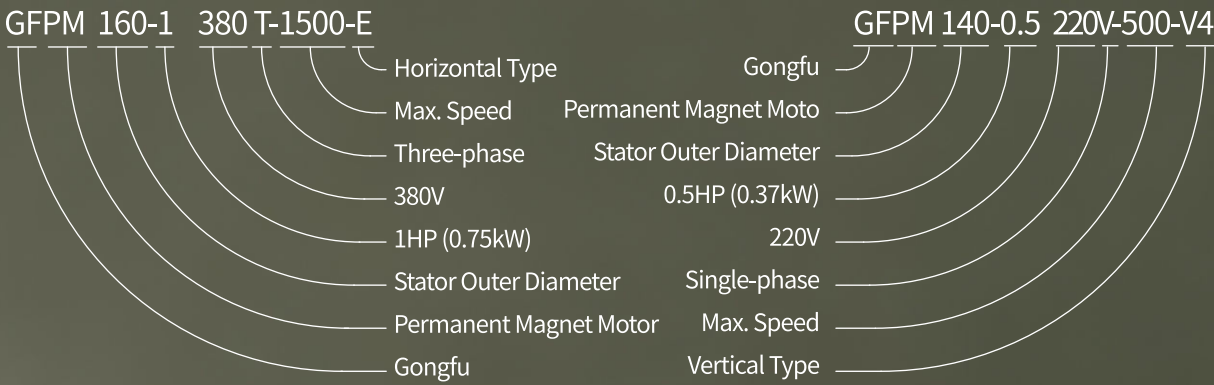
A good motor is not just inspected – it is built step by step.



PM Motor Parameter List(3-Phase 230V/50/60Hz)

(Table 1)

Motor Naming Rules & Examples



Example 1: GFPM160-1 380T-1500-E
PM Motor, stator outer diameter 160mm, 1HP (0.75kW), 380V three-phase, maximum speed 1500rpm, installation method: horizontal.

Example 2: GFPM140-0.5 220V-500-V4
PM Motor, stator outer diameter 140mm, 0.5HP (0.37kW), 220V single-phase, maximum speed 500rpm, installation method: vertical, with 4 brackets for frame mounting.

No.	Mode	Power Rated (kW)	Speed (rpm)	Max. Speed Control Range	Operating Speed Range	Efficiency %	Power Factor	Current (A)
1	GFPM140-0.5 230T-500	0.37	500	450-500	200-500	76	0.92	1.33
2	GFPM140-0.5 230T-600	0.37	600	550-600	200-600	77	0.92	1.31
3	GFPM140-0.5 230T-750	0.37	750	700-750	200-750	78.4	0.92	1.29
4	GFPM140-0.5 230T-1000	0.37	1000	950-1000	200-1000	81.6	0.92	1.24
5	GFPM140-0.5 230T-1500	0.37	1500	1450-1500	200-1500	84.3	0.92	1.20
6	GFPM140-0.5 230T-3000	0.37	3000	2950-3000	200-3000	81.7	0.92	1.24
7	GFPM140-0.75 230T-500	0.55	500	450-500	200-500	81	0.92	1.85
8	GFPM140-0.75 230T-600	0.55	600	550-600	200-600	81.9	0.92	1.83
9	GFPM140-0.75 230T-750	0.55	750	700-750	200-750	81.9	0.92	1.83
10	GFPM140-0.75 230T-1000	0.55	1000	950-1000	200-1000	84.5	0.92	1.78
11	GFPM140-0.75 230T-1500	0.55	1500	1450-1500	200-1500	86.3	0.92	1.74
12	GFPM140-0.75 230T-3000	0.55	3000	2950-3000	200-3000	84.1	0.92	1.78
13	GFPM140-1 230T-500	0.75	500	450-500	200-500	80	0.92	2.56
14	GFPM140-1 230T-600	0.75	600	550-600	200-600	82	0.92	2.50
15	GFPM140-1 230T-750	0.75	750	700-750	200-750	83.2	0.92	2.46
16	GFPM140-1 230T-1000	0.75	1000	950-1000	200-1000	86	0.92	2.38
17	GFPM140-1 230T-1500	0.75	1500	1450-1500	200-1500	87.8	0.92	2.33
18	GFPM140-1 230T-3000	0.75	3000	2950-3000	200-3000	85.9	0.92	2.38
19	GFPM160-1.5 230T-500	1.1	500	450-500	200-500	84.2	0.93	3.53
20	GFPM160-1.5 230T-600	1.1	600	550-600	200-600	84.6	0.93	3.51
21	GFPM160-1.5 230T-750	1.1	750	700-750	200-750	85.1	0.93	3.49
22	GFPM160-1.5 230T-1000	1.1	1000	950-1000	200-1000	87.5	0.93	3.39
23	GFPM160-1.5 230T-1500	1.1	1500	1450-1500	200-1500	89.2	0.93	3.33
24	GFPM160-1.5 230T-3000	1.1	3000	2950-3000	200-3000	87.4	0.93	3.40
25	GFPM160-2 230T-500	1.5	500	450-500	200-500	85.7	0.93	4.72
26	GFPM160-2 230T-600	1.5	650	550-600	200-600	86	0.93	4.71
27	GFPM160-2 230T-750	1.5	750	700-750	200-750	86.5	0.93	4.68
28	GFPM160-2 230T-1000	1.5	1000	950-1000	200-1000	88.6	0.93	4.57
29	GFPM160-2 230T-1500	1.5	1500	1450-1500	200-1500	90.1	0.93	4.49
30	GFPM160-2 230T-3000	1.5	3000	2950-3000	200-3000	88.6	0.93	4.57
31	GFPM160-2.5 230T-500	1.8	500	450-500	200-500	87.3	0.94	5.51
32	GFPM160-2.5 230T-600	1.8	600	550-600	200-600	87.3	0.94	5.51
33	GFPM160-2.5 230T-750	1.8	750	700-750	200-750	88.1	0.94	5.46
34	GFPM160-2.5 230T-1000	1.8	1000	950-1000	200-1000	89.9	0.94	5.35
35	GFPM160-2.5 230T-1500	1.8	1500	1450-1500	200-1500	91.1	0.94	5.28
36	GFPM160-2.5 230T-3000	1.8	3000	2950-3000	200-3000	89.9	0.94	5.35
37	GFPM160-3 230T-400	2.2	400	380-400	200-400	86.2	0.93	6.89
38	GFPM160-3 230T-500	2.2	500	450-500	200-500	87.3	0.93	6.80
39	GFPM160-3 230T-600	2.2	650	550-600	200-600	87.3	0.93	6.80
40	GFPM160-3 230T-750	2.2	750	700-750	200-750	88.1	0.93	6.74
41	GFPM160-3 230T-1000	2.2	1000	950-1000	200-1000	89.9	0.93	6.61
42	GFPM160-3 230T-1500	2.2	1500	1450-1500	200-1500	91.1	0.93	6.52
43	GFPM160-3 230T-3000	2.2	3000	2950-3000	200-3000	89.9	0.93	6.61
44	GFPM160-4 230T-750	2.2	750	700-750	200-750	89.2	0.93	6.66
45	GFPM160-4 230T-1000	2.2	1000	950-1000	200-1000	90.8	0.93	6.54
46	GFPM160-4 230T-1500	2.2	1500	1450-1500	200-1500	91.8	0.93	6.47
47	GFPM160-4 230T-3000	2.2	3000	2950-3000	200-3000	90.8	0.93	6.54

1-Phase 220V/230V/240V/50/60Hz Motor										(Table 2)	
No.	Mode		Power (kW)	Rated Speed (rpm)	Max. Speed Control Range	Operating Speed Range	Efficiency %	Power Factor	Current (A)		
1	GFPM140-0.5	230V-500	0.37	500	450-500	200-500	76	0.95	2.23		
2	GFPM140-0.5	230V-600	0.37	600	550-600	200-600	77	0.95	2.20		
3	GFPM140-0.5	230V-750	0.37	750	700-750	200-750	78.4	0.95	2.16		
4	GFPM140-0.5	230V-1000	0.37	1000	950-1000	200-1000	81.6	0.95	2.08		
5	GFPM140-0.5	230V-1500	0.37	1500	1450-1500	200-1500	84.3	0.95	2.01		
6	GFPM140-0.5	230V-3000	0.37	3000	2950-3000	200-3000	81.7	0.95	2.07		
7	GFPM140-0.75	230V-500	0.55	500	450-500	200-500	81	0.95	3.11		
8	GFPM140-0.75	230V-600	0.55	600	550-600	200-600	81.9	0.95	3.07		
9	GFPM140-0.75	230V-750	0.55	750	700-750	200-750	81.9	0.95	3.07		
10	GFPM140-0.75	230V-1000	0.55	1000	950-1000	200-1000	84.5	0.95	2.98		
11	GFPM140-0.75	230V-1500	0.55	1500	1450-1500	200-1500	86.3	0.95	2.92		
12	GFPM140-0.75	230V-3000	0.55	3000	2950-3000	200-3000	84.1	0.95	2.99		
13	GFPM140-1	230V-500	0.75	500	450-500	200-500	80	0.95	4.29		
14	GFPM140-1	230V-600	0.75	600	550-600	200-600	82	0.95	4.19		
15	GFPM140-1	230V-750	0.75	750	700-750	200-750	83.2	0.95	4.13		
16	GFPM140-1	230V-1000	0.75	1000	950-1000	200-1000	86	0.95	3.99		
17	GFPM140-1	230V-1500	0.75	1500	1450-1500	200-1500	87.8	0.95	3.91		
18	GFPM140-1	230V-3000	0.75	3000	2950-3000	200-3000	85.9	0.95	4.00		
19	GFPM160-1.5	230V-500	1.1	500	450-500	200-500	84.2	0.96	5.92		
20	GFPM160-1.5	230V-600	1.1	600	550-600	200-600	84.6	0.96	5.89		
21	GFPM160-1.5	230V-750	1.1	750	700-750	200-750	85.1	0.96	5.85		
22	GFPM160-1.5	230V-1000	1.1	1000	950-1000	200-1000	87.5	0.96	5.69		
23	GFPM160-1.5	230V-1500	1.1	1500	1450-1500	200-1500	89.2	0.96	5.59		
24	GFPM160-1.5	230V-3000	1.1	3000	2950-3000	200-3000	87.4	0.96	5.70		
25	GFPM160-2	230V-500	1.5	500	450-500	200-500	85.7	0.96	7.93		
26	GFPM160-2	230V-600	1.5	650	550-600	200-600	86	0.96	7.90		
27	GFPM160-2	230V-750	1.5	750	700-750	200-750	86.5	0.96	7.85		
28	GFPM160-2	230V-1000	1.5	1000	950-1000	200-1000	88.6	0.96	7.67		
29	GFPM160-2	230V-1500	1.5	1500	1450-1500	200-1500	90.1	0.96	7.54		
30	GFPM160-2	230V-3000	1.5	3000	2950-3000	200-3000	88.6	0.96	7.67		
31	GFPM160-2.5	230V-500	1.8	500	450-500	200-500	87.3	0.97	9.24		
32	GFPM160-2.5	230V-600	1.8	600	550-600	200-600	87.3	0.97	9.24		
33	GFPM160-2.5	230V-750	1.8	750	700-750	200-750	88.1	0.97	9.16		
34	GFPM160-2.5	230V-1000	1.8	1000	950-1000	200-1000	89.9	0.97	8.97		
35	GFPM160-2.5	230V-1500	1.8	1500	1450-1500	200-1500	91.1	0.97	8.86		
36	GFPM160-2.5	230V-3000	1.8	3000	2950-3000	200-3000	89.9	0.97	8.97		
37	GFPM160-3	230V-400	2.2	400	380-400	200-400	86.2	0.98	11.32		
38	GFPM160-3	230V-500	2.2	500	450-500	200-500	87.3	0.98	11.18		
39	GFPM160-3	230V-600	2.2	650	550-600	200-600	87.3	0.98	11.18		
40	GFPM160-3	230V-750	2.2	750	700-750	200-750	88.1	0.98	11.08		
41	GFPM160-3	230V-1000	2.2	1000	950-1000	200-1000	89.9	0.98	10.86		
42	GFPM160-3	230V-1500	2.2	1500	1450-1500	200-1500	91.1	0.98	10.71		
43	GFPM160-3	230V-3000	2.2	3000	2950-3000	200-3000	89.9	0.98	10.86		

3-Phase 380V/50/60Hz Motor										(Table 3)	
No.	Mode		Power (kW)	Rated Speed(rpm)	Max. Speed Control Range	Operating Speed Range	Efficiency %	Power Factor	Current (A)		
1	GFPM140-0.5	380T-500	0.37	500	450-500	200-500	76	0.92	0.80		
2	GFPM140-0.5	380T-600	0.37	600	550-600	200-600	77	0.92	0.79		
3	GFPM140-0.5	380T-750	0.37	750	700-750	200-750	78.4	0.92	0.78		
4	GFPM140-0.5	380T-1000	0.37	1000	950-1000	200-1000	81.6	0.92	0.75		
5	GFPM140-0.5	380T-1500	0.37	1500	1450-1500	200-1500	84.3	0.92	0.72		
6	GFPM140-0.5	380T-3000	0.37	3000	2950-3000	200-3000	81.7	0.92	0.75		
7	GFPM140-0.75	380T-500	0.55	500	450-500	200-500	81	0.92	1.12		
8	GFPM140-0.75	380T-600	0.55	600	550-600	200-600	81.9	0.92	1.11		
9	GFPM140-0.75	380T-750	0.55	750	700-750	200-750	81.9	0.92	1.11		
10	GFPM140-0.75	380T-1000	0.55	1000	950-1000	200-1000	84.5	0.92	1.07		
11	GFPM140-0.75	380T-1500	0.55	1500	1450-1500	200-1500	86.3	0.92	1.05		
12	GFPM140-0.75	380T-3000	0.55	3000	2950-3000	200-3000	84.1	0.92	1.08		
13	GFPM140-1	380T-500	0.75	500	450-500	200-500	80	0.92	1.55		
14	GFPM140-1	380T-600	0.75	600	550-600	200-600	82	0.92	1.51		
15	GFPM140-1	380T-750	0.75	750	700-750	200-750	83.2	0.92	1.49		
16	GFPM140-1	380T-1000	0.75	1000	950-1000	200-1000	86	0.92	1.44		
17	GFPM140-1	380T-1500	0.75	1500	1450-1500	200-1500	87.8	0.92	1.41		
18	GFPM140-1	380T-3000	0.75	3000	2950-3000	200-3000	85.9	0.92	1.44		
19	GFPM160-1.5	380T-500	1.1	500	450-500	200-500	84.2	0.93	2.13		
20	GFPM160-1.5	380T-600	1.1	600	550-600	200-600	84.6	0.93	2.12		
21	GFPM160-1.5	380T-750	1.1	750	700-750	200-750	85.1	0.93	2.11		
22	GFPM160-1.5	380T-1000	1.1	1000	950-1000	200-1000	87.5	0.93	2.05		
23	GFPM160-1.5	380T-1500	1.1	1500	1450-1500	200-1500	89.2	0.93	2.01		
24	GFPM160-1.5	380T-3000	1.1	3000	2950-3000	200-3000	87.4	0.93	2.06		
25	GFPM160-2	380T-500	1.5	500	450-500	200-500	85.7	0.93	2.86		
26	GFPM160-2	380T-600	1.5	650	550-600	200-600	86	0.93	2.85		
27	GFPM160-2	380T-750	1.5	750	700-750	200-750	86.5	0.93	2.83		
28	GFPM160-2	380T-1000	1.5	1000	950-1000	200-1000	88.6	0.93	2.77		
29	GFPM160-2	380T-1500	1.5	1500	1450-1500	200-1500	90.1	0.93	2.72		
30	GFPM160-2	380T-3000	1.5	3000	2950-3000	200-3000	88.6	0.93	2.77		
31	GFPM160-2.5	380T-500	1.8	500	450-500	200-500	87.3	0.94	3.33		
32	GFPM160-2.5	380T-600	1.8	600	550-600	200-600	87.3	0.94	3.33		
33	GFPM160-2.5	380T-750	1.8	750	700-750	200-750	88.1	0.94	3.30		
34	GFPM160-2.5	380T-1000	1.8	1000	950-1000	200-1000	89.9	0.94	3.24		
35	GFPM160-2.5	380T-1500	1.8	1500	1450-1500	200-1500	91.1	0.94	3.19		
36	GFPM160-2.5	380T-3000	1.8	3000	2950-3000	200-3000	89.9	0.94	3.24		
37	GFPM160-3	380T-400	2.2	400	380-400	200-400	86.2	0.93	4.17		
38	GFPM160-3	380T-500	2.2	500	450-500	200-500	87.3	0.93	4.12		
39	GFPM160-3	380T-600	2.2	650	550-600	200-600	87.3	0.93	4.12		
40	GFPM160-3	380T-750	2.2	750	700-750	200-750	88.1	0.93	4.08		
41	GFPM160-3	380T-1000	2.2	1000	950-1000	200-1000	89.9	0.93	4.00		
42	GFPM160-3	380T-1500	2.2	1500	1450-1500	200-1500	91.1	0.93	3.95		
43	GFPM160-3	380T-3000	2.2	3000	2950-3000	200-3000	89.9	0.93	4.00		
44	GFPM160-4	380T-750	2.2	750	700-750	200-750	89.2	0.93	4.03		
45	GFPM160-4	380T-1000	2.2	1000	950-1000	200-1000	90.8	0.93	3.96		
46	GFPM160-4	380T-1500	2.2	1500	1450-1500	200-1500	91.8	0.93	3.92		
47	GFPM160-4	380T-3000	2.2	3000	2950-3000	200-3000	90.8	0.93	3.96		

3-Phase 400V/50/60Hz Motor (Table 4)									
No.	Mode		Power (kW)	Rated Speed (rpm)	Max. Speed Control Range	Operating Speed Range	Efficiency %	Power Factor	Current (A)
1	GFPM140-0.5	400T-500	0.37	500	450-500	200-500	76	0.92	0.76
2	GFPM140-0.5	400T-600	0.37	600	550-600	200-600	77	0.92	0.75
3	GFPM140-0.5	400T-750	0.37	750	700-750	200-750	78.4	0.92	0.74
4	GFPM140-0.5	400T-1000	0.37	1000	950-1000	200-1000	81.6	0.92	0.71
5	GFPM140-0.5	400T-1500	0.37	1500	1450-1500	200-1500	84.3	0.92	0.69
6	GFPM140-0.5	400T-3000	0.37	3000	2950-3000	200-3000	81.7	0.92	0.71
7	GFPM140-0.75	400T-500	0.55	500	450-500	200-500	81	0.92	1.07
8	GFPM140-0.75	400T-600	0.55	600	550-600	200-600	81.9	0.92	1.05
9	GFPM140-0.75	400T-750	0.55	750	700-750	200-750	81.9	0.92	1.05
10	GFPM140-0.75	400T-1000	0.55	1000	950-1000	200-1000	84.5	0.92	1.02
11	GFPM140-0.75	400T-1500	0.55	1500	1450-1500	200-1500	86.3	0.92	1.00
12	GFPM140-0.75	400T-3000	0.55	3000	2950-3000	200-3000	84.1	0.92	1.03
13	GFPM140-1	400T-500	0.75	500	450-500	200-500	80	0.92	1.47
14	GFPM140-1	400T-600	0.75	600	550-600	200-600	82	0.92	1.43
15	GFPM140-1	400T-750	0.75	750	700-750	200-750	83.2	0.92	1.41
16	GFPM140-1	400T-1000	0.75	1000	950-1000	200-1000	86	0.92	1.37
17	GFPM140-1	400T-1500	0.75	1500	1450-1500	200-1500	87.8	0.92	1.34
18	GFPM140-1	400T-3000	0.75	3000	2950-3000	200-3000	85.9	0.92	1.37
19	GFPM160-1.5	400T-500	1.1	500	450-500	200-500	84.2	0.93	2.03
20	GFPM160-1.5	400T-600	1.1	600	550-600	200-600	84.6	0.93	2.02
21	GFPM160-1.5	400T-750	1.1	750	700-750	200-750	85.1	0.93	2.01
22	GFPM160-1.5	400T-1000	1.1	1000	950-1000	200-1000	87.5	0.93	1.95
23	GFPM160-1.5	400T-1500	1.1	1500	1450-1500	200-1500	89.2	0.93	1.91
24	GFPM160-1.5	400T-3000	1.1	3000	2950-3000	200-3000	87.4	0.93	1.95
25	GFPM160-2	400T-500	1.5	500	450-500	200-500	85.7	0.93	2.72
26	GFPM160-2	400T-600	1.5	650	550-600	200-600	86	0.93	2.71
27	GFPM160-2	400T-750	1.5	750	700-750	200-750	86.5	0.93	2.69
28	GFPM160-2	400T-1000	1.5	1000	950-1000	200-1000	88.6	0.93	2.63
29	GFPM160-2	400T-1500	1.5	1500	1450-1500	200-1500	90.1	0.93	2.58
30	GFPM160-2	400T-3000	1.5	3000	2950-3000	200-3000	88.6	0.93	2.63
31	GFPM160-2.5	400T-500	1.8	500	450-500	200-500	87.3	0.94	3.17
32	GFPM160-2.5	400T-600	1.8	600	550-600	200-600	87.3	0.94	3.17
33	GFPM160-2.5	400T-750	1.8	750	700-750	200-750	88.1	0.94	3.14
34	GFPM160-2.5	400T-1000	1.8	1000	950-1000	200-1000	89.9	0.94	3.07
35	GFPM160-2.5	400T-1500	1.8	1500	1450-1500	200-1500	91.1	0.94	3.03
36	GFPM160-2.5	400T-3000	1.8	3000	2950-3000	200-3000	89.9	0.94	3.07
37	GFPM160-3	400T-400	2.2	400	380-400	200-400	86.2	0.93	3.96
38	GFPM160-3	400T-500	2.2	500	450-500	200-500	87.3	0.93	3.91
39	GFPM160-3	400T-600	2.2	650	550-600	200-600	87.3	0.93	3.91
40	GFPM160-3	400T-750	2.2	750	700-750	200-750	88.1	0.93	3.88
41	GFPM160-3	400T-1000	2.2	1000	950-1000	200-1000	89.9	0.93	3.80
42	GFPM160-3	400T-1500	2.2	1500	1450-1500	200-1500	91.1	0.93	3.75
43	GFPM160-3	400T-3000	2.2	3000	2950-3000	200-3000	89.9	0.93	3.80
44	GFPM160-4	400T-750	2.2	750	700-750	200-750	89.2	0.93	3.83
45	GFPM160-4	400T-1000	2.2	1000	950-1000	200-1000	90.8	0.93	3.76
46	GFPM160-4	400T-1500	2.2	1500	1450-1500	200-1500	91.8	0.93	3.72
47	GFPM160-4	400T-3000	2.2	3000	2950-3000	200-3000	90.8	0.93	3.76

3-Phase 415V/50Hz Motor (Table 5)										
No.	Mode		Power (kW)	Rated Speed (rpm)	Max. Speed Control Range	Operating Speed Range	Efficiency %	Power Factor	Current (A)	
1	GFPM140-0.5	415T-500	0.37	500	450-500	200-500	76	0.92	0.74	
2	GFPM140-0.5	415T-600	0.37	600	550-600	200-600	77	0.92	0.73	
3	GFPM140-0.5	415T-750	0.37	750	700-750	200-750	78.4	0.92	0.71	
4	GFPM140-0.5	415T-1000	0.37	1000	950-1000	200-1000	81.6	0.92	0.69	
5	GFPM140-0.5	415T-1500	0.37	1500	1450-1500	200-1500	84.3	0.92	0.66	
6	GFPM140-0.5	415T-3000	0.37	3000	2950-3000	200-3000	81.7	0.92	0.68	
7	GFPM140-0.75	415T-500	0.55	500	450-500	200-500	81	0.92	1.03	
8	GFPM140-0.75	415T-600	0.55	600	550-600	200-600	81.9	0.92	1.02	
9	GFPM140-0.75	415T-750	0.55	750	700-750	200-750	81.9	0.92	1.02	
10	GFPM140-0.75	415T-1000	0.55	1000	950-1000	200-1000	84.5	0.92	0.98	
11	GFPM140-0.75	415T-1500	0.55	1500	1450-1500	200-1500	86.3	0.92	0.96	
12	GFPM140-0.75	415T-3000	0.55	3000	2950-3000	200-3000	84.1	0.92	0.99	
13	GFPM140-1	415T-500	0.75	500	450-500	200-500	80	0.92	1.42	
14	GFPM140-1	415T-600	0.75	600	550-600	200-600	82	0.92	1.38	
15	GFPM140-1	415T-750	0.75	750	700-750	200-750	83.2	0.92	1.36	
16	GFPM140-1	415T-1000	0.75	1000	950-1000	200-1000	86	0.92	1.32	
17	GFPM140-1	415T-1500	0.75	1500	1450-1500	200-1500	87.8	0.92	1.29	
18	GFPM140-1	415T-3000	0.75	3000	2950-3000	200-3000	85.9	0.92	1.32	
19	GFPM160-1.5	415T-500	1.1	500	450-500	200-500	84.2	0.93	1.95	
20	GFPM160-1.5	415T-600	1.1	600	550-600	200-600	84.6	0.93	1.94	
21	GFPM160-1.5	415T-750	1.1	750	700-750	200-750	85.1	0.93	1.93	
22	GFPM160-1.5	415T-1000	1.1	1000	950-1000	200-1000	87.5	0.93	1.88	
23	GFPM160-1.5	415T-1500	1.1	1500	1450-1500	200-1500	89.2	0.93	1.84	
24	GFPM160-1.5	415T-3000	1.1	3000	2950-3000	200-3000	87.4	0.93	1.88	
25	GFPM160-2	415T-500	1.5	500	450-500	200-500	85.7	0.93	2.62	
26	GFPM160-2	415T-600	1.5	650	550-600	200-600	86	0.93	2.61	
27	GFPM160-2	415T-750	1.5	750	700-750	200-750	86.5	0.93	2.59	
28	GFPM160-2	415T-1000	1.5	1000	950-1000	200-1000	88.6	0.93	2.53	
29	GFPM160-2	415T-1500	1.5	1500	1450-1500	200-1500	90.1	0.93	2.49	
30	GFPM160-2	415T-3000	1.5	3000	2950-3000	200-3000	88.6	0.93	2.53	
31	GFPM160-2.5	415T-500	1.8	500	450-500	200-500	87.3	0.94	3.05	
32	GFPM160-2.5	415T-600	1.8	600	550-600	200-600	87.3	0.94	3.05	
33	GFPM160-2.5	415T-750	1.8	750	700-750	200-750	88.1	0.94	3.02	
34	GFPM160-2.5	415T-1000	1.8	1000	950-1000	200-1000	89.9	0.94	2.96	
35	GFPM160-2.5	415T-1500	1.8	1500	1450-1500	200-1500	91.1	0.94	2.92	
36	GFPM160-2.5	415T-3000	1.8	3000	2950-3000	200-3000	89.9	0.94	2.96	
37	GFPM160-3	415T-400	2.2	400	380-400	200-400	86.2	0.93	3.82	
38	GFPM160-3	415T-500	2.2	500	450-500	200-500	87.3	0.93	3.77	
39	GFPM160-3	415T-600	2.2	650	550-600	200-600	87.3	0.93	3.77	
40	GFPM160-3	415T-750	2.2	750	700-750	200-750	88.1	0.93	3.74	
41	GFPM160-3	415T-1000	2.2	1000	950-1000	200-1000	89.9	0.93	3.66	
42	GFPM160-3	415T-1500	2.2	1500	1450-1500	200-1500	91.1	0.93	3.61	
43	GFPM160-3	415T-3000	2.2	3000	2950-3000	200-3000	89.9	0.93	3.66	
44	GFPM160-4	415T-750	2.2	750	700-750	200-750	89.2	0.93	3.69	
45	GFPM160-4	415T-1000	2.2	1000	950-1000	200-1000	90.8	0.93	3.62	
46	GFPM160-4	415T-1500	2.2	1500	1450-1500	200-1500	91.8	0.93	3.58	
47	GFPM160-4	415T-3000	2.2	3000	2950-3000	200-3000	90.8	0.93	3.62	

3-Phase 440V/60Hz Motor

(Table 6)

No.	Mode		Power (kW)	Rated Speed (rpm)	Max. Speed Control Range	Operating Speed Range	Efficiency %	Power Factor	Current (A)
1	GFPM140-0.5	440T-500	0.37	500	450-500	200-500	76	0.92	0.69
2	GFPM140-0.5	440T-600	0.37	600	550-600	200-600	77	0.92	0.69
3	GFPM140-0.5	440T-750	0.37	750	700-750	200-750	78.4	0.92	0.67
4	GFPM140-0.5	440T-1000	0.37	1000	950-1000	200-1000	81.6	0.92	0.65
5	GFPM140-0.5	440T-1500	0.37	1500	1450-1500	200-1500	84.3	0.92	0.63
6	GFPM140-0.5	440T-3000	0.37	3000	2950-3000	200-3000	81.7	0.92	0.65
7	GFPM140-0.75	440T-500	0.55	500	450-500	200-500	81	0.92	0.97
8	GFPM140-0.75	440T-600	0.55	600	550-600	200-600	81.9	0.92	0.96
9	GFPM140-0.75	440T-750	0.55	750	700-750	200-750	81.9	0.92	0.96
10	GFPM140-0.75	440T-1000	0.55	1000	950-1000	200-1000	84.5	0.92	0.93
11	GFPM140-0.75	440T-1500	0.55	1500	1450-1500	200-1500	86.3	0.92	0.91
12	GFPM140-0.75	440T-3000	0.55	3000	2950-3000	200-3000	84.1	0.92	0.93
13	GFPM140-1	440T-500	0.75	500	450-500	200-500	80	0.92	1.34
14	GFPM140-1	440T-600	0.75	600	550-600	200-600	82	0.92	1.30
15	GFPM140-1	440T-750	0.75	750	700-750	200-750	83.2	0.92	1.29
16	GFPM140-1	440T-1000	0.75	1000	950-1000	200-1000	86	0.92	1.24
17	GFPM140-1	440T-1500	0.75	1500	1450-1500	200-1500	87.8	0.92	1.22
18	GFPM140-1	440T-3000	0.75	3000	2950-3000	200-3000	85.9	0.92	1.25
19	GFPM160-1.5	440T-500	1.1	500	450-500	200-500	84.2	0.93	1.84
20	GFPM160-1.5	440T-600	1.1	600	550-600	200-600	84.6	0.93	1.83
21	GFPM160-1.5	440T-750	1.1	750	700-750	200-750	85.1	0.93	1.82
22	GFPM160-1.5	440T-1000	1.1	1000	950-1000	200-1000	87.5	0.93	1.77
23	GFPM160-1.5	440T-1500	1.1	1500	1450-1500	200-1500	89.2	0.93	1.74
24	GFPM160-1.5	440T-3000	1.1	3000	2950-3000	200-3000	87.4	0.93	1.78
25	GFPM160-2	440T-500	1.5	500	450-500	200-500	85.7	0.93	2.47
26	GFPM160-2	440T-600	1.5	650	550-600	200-600	86	0.93	2.46
27	GFPM160-2	440T-750	1.5	750	700-750	200-750	86.5	0.93	2.45
28	GFPM160-2	440T-1000	1.5	1000	950-1000	200-1000	88.6	0.93	2.39
29	GFPM160-2	440T-1500	1.5	1500	1450-1500	200-1500	90.1	0.93	2.35
30	GFPM160-2	440T-3000	1.5	3000	2950-3000	200-3000	88.6	0.93	2.39
31	GFPM160-2.5	440T-500	1.8	500	450-500	200-500	87.3	0.94	2.88
32	GFPM160-2.5	440T-600	1.8	600	550-600	200-600	87.3	0.94	2.88
33	GFPM160-2.5	440T-750	1.8	750	700-750	200-750	88.1	0.94	2.85
34	GFPM160-2.5	440T-1000	1.8	1000	950-1000	200-1000	89.9	0.94	2.79
35	GFPM160-2.5	440T-1500	1.8	1500	1450-1500	200-1500	91.1	0.94	2.76
36	GFPM160-2.5	440T-3000	1.8	3000	2950-3000	200-3000	89.9	0.94	2.79
37	GFPM160-3	440T-400	2.2	400	380-400	200-400	86.2	0.93	3.60
38	GFPM160-3	440T-500	2.2	500	450-500	200-500	87.3	0.93	3.56
39	GFPM160-3	440T-600	2.2	650	550-600	200-600	87.3	0.93	3.56
40	GFPM160-3	440T-750	2.2	750	700-750	200-750	88.1	0.93	3.52
41	GFPM160-3	440T-1000	2.2	1000	950-1000	200-1000	89.9	0.93	3.45
42	GFPM160-3	440T-1500	2.2	1500	1450-1500	200-1500	91.1	0.93	3.41
43	GFPM160-3	440T-3000	2.2	3000	2950-3000	200-3000	89.9	0.93	3.45
44	GFPM160-4	440T-750	2.2	750	700-750	200-750	89.2	0.93	3.48
45	GFPM160-4	440T-1000	2.2	1000	950-1000	200-1000	90.8	0.93	3.42
46	GFPM160-4	440T-1500	2.2	1500	1450-1500	200-1500	91.8	0.93	3.38
47	GFPM160-4	440T-3000	2.2	3000	2950-3000	200-3000	90.8	0.93	3.42

3-Phase 460V/60Hz Motor

(Table 7)

No.	Mode		Power (kW)	Rated Speed (rpm)	Max. Speed Control Range	Operating Speed Range	Efficiency %	Power Factor	Current (A)
1	GFPM140-0.5	460T-500	0.37	500	450-500	200-500	76	0.92	0.66
2	GFPM140-0.5	460T-600	0.37	600	550-600	200-600	77	0.92	0.66
3	GFPM140-0.5	460T-750	0.37	750	700-750	200-750	78.4	0.92	0.64
4	GFPM140-0.5	460T-1000	0.37	1000	950-1000	200-1000	81.6	0.92	0.62
5	GFPM140-0.5	460T-1500	0.37	1500	1450-1500	200-1500	84.3	0.92	0.60
6	GFPM140-0.5	460T-3000	0.37	3000	2950-3000	200-3000	81.7	0.92	0.62
7	GFPM140-0.75	460T-500	0.55	500	450-500	200-500	81	0.92	0.93
8	GFPM140-0.75	460T-600	0.55	600	550-600	200-600	81.9	0.92	0.92
9	GFPM140-0.75	460T-750	0.55	750	700-750	200-750	81.9	0.92	0.92
10	GFPM140-0.75	460T-1000	0.55	1000	950-1000	200-1000	84.5	0.92	0.89
11	GFPM140-0.75	460T-1500	0.55	1500	1450-1500	200-1500	86.3	0.92	0.87
12	GFPM140-0.75	460T-3000	0.55	3000	2950-3000	200-3000	84.1	0.92	0.89
13	GFPM140-1	460T-500	0.75	500	450-500	200-500	80	0.92	1.28
14	GFPM140-1	460T-600	0.75	600	550-600	200-600	82	0.92	1.25
15	GFPM140-1	460T-750	0.75	750	700-750	200-750	83.2	0.92	1.23
16	GFPM140-1	460T-1000	0.75	1000	950-1000	200-1000	86	0.92	1.19
17	GFPM140-1	460T-1500	0.75	1500	1450-1500	200-1500	87.8	0.92	1.17
18	GFPM140-1	460T-3000	0.75	3000	2950-3000	200-3000	85.9	0.92	1.19
19	GFPM160-1.5	460T-500	1.1	500	450-500	200-500	84.2	0.93	1.76
20	GFPM160-1.5	460T-600	1.1	600	550-600	200-600	84.6	0.93	1.75
21	GFPM160-1.5	460T-750	1.1	750	700-750	200-750	85.1	0.93	1.74
22	GFPM160-1.5	460T-1000	1.1	1000	950-1000	200-1000	87.5	0.93	1.70
23	GFPM160-1.5	460T-1500	1.1	1500	1450-1500	200-1500	89.2	0.93	1.66
24	GFPM160-1.5	460T-3000	1.1	3000	2950-3000	200-3000	87.4	0.93	1.70
25	GFPM160-2	460T-500	1.5	500	450-500	200-500	85.7	0.93	2.36
26	GFPM160-2	460T-600	1.5	650	550-600	200-600	86	0.93	2.35
27	GFPM160-2	460T-750	1.5	750	700-750	200-750	86.5	0.93	2.34
28	GFPM160-2	460T-1000	1.5	1000	950-1000	200-1000	88.6	0.93	2.28
29	GFPM160-2	460T-1500	1.5	1500	1450-1500	200-1500	90.1	0.93	2.25
30	GFPM160-2	460T-3000	1.5	3000	2950-3000	200-3000	88.6	0.93	2.28
31	GFPM160-2.5	460T-500	1.8	500	450-500	200-500	87.3	0.94	2.75
32	GFPM160-2.5	460T-600	1.8	600	550-600	200-600	87.3	0.94	2.75
33	GFPM160-2.5	460T-750	1.8	750	700-750	200-750	88.1	0.94	2.73
34	GFPM160-2.5	460T-1000	1.8	1000	950-1000	200-1000	89.9	0.94	2.67
35	GFPM160-2.5	460T-1500	1.8	1500	1450-1500	200-1500	91.1	0.94	2.64
36	GFPM160-2.5	460T-3000	1.8	3000	2950-3000	200-3000	89.9	0.94	2.67
37	GFPM160-3	460T-400	2.2	400	380-400	200-400	86.2	0.93	3.44
38	GFPM160-3	460T-500	2.2	500	450-500	200-500	87.3	0.93	3.40
39	GFPM160-3	460T-600	2.2	650	550-600	200-600	87.3	0.93	3.40
40	GFPM160-3	460T-750	2.2	750	700-750	200-750	88.1	0.93	3.37
41	GFPM160-3	460T-1000	2.2	1000	950-1000	200-1000	89.9	0.93	3.30
42	GFPM160-3	460T-1500	2.2	1500	1450-1500	200-1500	91.1	0.93	3.26
43	GFPM160-3	460T-3000	2.2	3000	2950-3000	200-3000	89.9	0.93	3.30
44	GFPM160-4	460T-750	2.2	750	700-750	200-750	89.2	0.93	3.33
45	GFPM160-4	460T-1000	2.2	1000	950-1000	200-1000	90.8	0.93	3.27
46	GFPM160-4	460T-1500	2.2	1500	1450-1500	200-1500	91.8	0.93	3.23
47	GFPM160-4	460T-3000	2.2	3000	2950-3000	200-3000	90.8	0.93	3.27

3-Phase 575V/60Hz Motor

(Table 8)

No.	Mode		Power (kW)	Rated Speed (rpm)	Max. Speed Control Range	Operating Speed Range	Efficiency %	Power Factor	Current (A)
1	GFPM140-0.5	575T-500	0.37	500	450-500	200-500	76	0.92	0.53
2	GFPM140-0.5	575T-600	0.37	600	550-600	200-600	77	0.92	0.52
3	GFPM140-0.5	575T-750	0.37	750	700-750	200-750	78.4	0.92	0.52
4	GFPM140-0.5	575T-1000	0.37	1000	950-1000	200-1000	81.6	0.92	0.49
5	GFPM140-0.5	575T-1500	0.37	1500	1450-1500	200-1500	84.3	0.92	0.48
6	GFPM140-0.5	575T-3000	0.37	3000	2950-3000	200-3000	81.7	0.92	0.49
7	GFPM140-0.75	575T-500	0.55	500	450-500	200-500	81	0.92	0.74
8	GFPM140-0.75	575T-600	0.55	600	550-600	200-600	81.9	0.92	0.73
9	GFPM140-0.75	575T-750	0.55	750	700-750	200-750	81.9	0.92	0.73
10	GFPM140-0.75	575T-1000	0.55	1000	950-1000	200-1000	84.5	0.92	0.71
11	GFPM140-0.75	575T-1500	0.55	1500	1450-1500	200-1500	86.3	0.92	0.70
12	GFPM140-0.75	575T-3000	0.55	3000	2950-3000	200-3000	84.1	0.92	0.71
13	GFPM140-1	575T-500	0.75	500	450-500	200-500	80	0.92	1.02
14	GFPM140-1	575T-600	0.75	600	550-600	200-600	82	0.92	1.00
15	GFPM140-1	575T-750	0.75	750	700-750	200-750	83.2	0.92	0.98
16	GFPM140-1	575T-1000	0.75	1000	950-1000	200-1000	86	0.92	0.95
17	GFPM140-1	575T-1500	0.75	1500	1450-1500	200-1500	87.8	0.92	0.93
18	GFPM140-1	575T-3000	0.75	3000	2950-3000	200-3000	85.9	0.92	0.95
19	GFPM160-1.5	575T-500	1.1	500	450-500	200-500	84.2	0.93	1.41
20	GFPM160-1.5	575T-600	1.1	600	550-600	200-600	84.6	0.93	1.40
21	GFPM160-1.5	575T-750	1.1	750	700-750	200-750	85.1	0.93	1.40
22	GFPM160-1.5	575T-1000	1.1	1000	950-1000	200-1000	87.5	0.93	1.36
23	GFPM160-1.5	575T-1500	1.1	1500	1450-1500	200-1500	89.2	0.93	1.33
24	GFPM160-1.5	575T-3000	1.1	3000	2950-3000	200-3000	87.4	0.93	1.36
25	GFPM160-2	575T-500	1.5	500	450-500	200-500	85.7	0.93	1.89
26	GFPM160-2	575T-600	1.5	650	550-600	200-600	86	0.93	1.88
27	GFPM160-2	575T-750	1.5	750	700-750	200-750	86.5	0.93	1.87
28	GFPM160-2	575T-1000	1.5	1000	950-1000	200-1000	88.6	0.93	1.83
29	GFPM160-2	575T-1500	1.5	1500	1450-1500	200-1500	90.1	0.93	1.80
30	GFPM160-2	575T-3000	1.5	3000	2950-3000	200-3000	88.6	0.93	1.83
31	GFPM160-2.5	575T-500	1.8	500	450-500	200-500	87.3	0.94	2.20
32	GFPM160-2.5	575T-600	1.8	600	550-600	200-600	87.3	0.94	2.20
33	GFPM160-2.5	575T-750	1.8	750	700-750	200-750	88.1	0.94	2.18
34	GFPM160-2.5	575T-1000	1.8	1000	950-1000	200-1000	89.9	0.94	2.14
35	GFPM160-2.5	575T-1500	1.8	1500	1450-1500	200-1500	91.1	0.94	2.11
36	GFPM160-2.5	575T-3000	1.8	3000	2950-3000	200-3000	89.9	0.94	2.14
37	GFPM160-3	575T-400	2.2	400	380-400	200-400	86.2	0.93	2.76
38	GFPM160-3	575T-500	2.2	500	450-500	200-500	87.3	0.93	2.72
39	GFPM160-3	575T-600	2.2	650	550-600	200-600	87.3	0.93	2.72
40	GFPM160-3	575T-750	2.2	750	700-750	200-750	88.1	0.93	2.70
41	GFPM160-3	575T-1000	2.2	1000	950-1000	200-1000	89.9	0.93	2.64
42	GFPM160-3	575T-1500	2.2	1500	1450-1500	200-1500	91.1	0.93	2.61
43	GFPM160-3	575T-3000	2.2	3000	2950-3000	200-3000	89.9	0.93	2.64
44	GFPM160-4	575T-750	2.2	750	700-750	200-750	89.2	0.93	2.66
45	GFPM160-4	575T-1000	2.2	1000	950-1000	200-1000	90.8	0.93	2.62
46	GFPM160-4	575T-1500	2.2	1500	1450-1500	200-1500	91.8	0.93	2.59
47	GFPM160-4	575T-3000	2.2	3000	2950-3000	200-3000	90.8	0.93	2.62

Motor Construction Parameters

Motor Accessories

As standard, the motor is supplied with the following accessories on the shaft extension: nut (or bolt), flat washer, spring washer, and parallel key.

Motor Housing Color

Our products are normally finished in gray for standard delivery. However, customers can request specific custom colors based on their actual needs.

Mounting Methods

To accommodate the diverse usage requirements of our customers, we have developed two main categories: Horizontal mounting (B3) and Vertical mounting (B14, B5).Vertical mounting includes three-point bracket connection and four-point bracket connection.

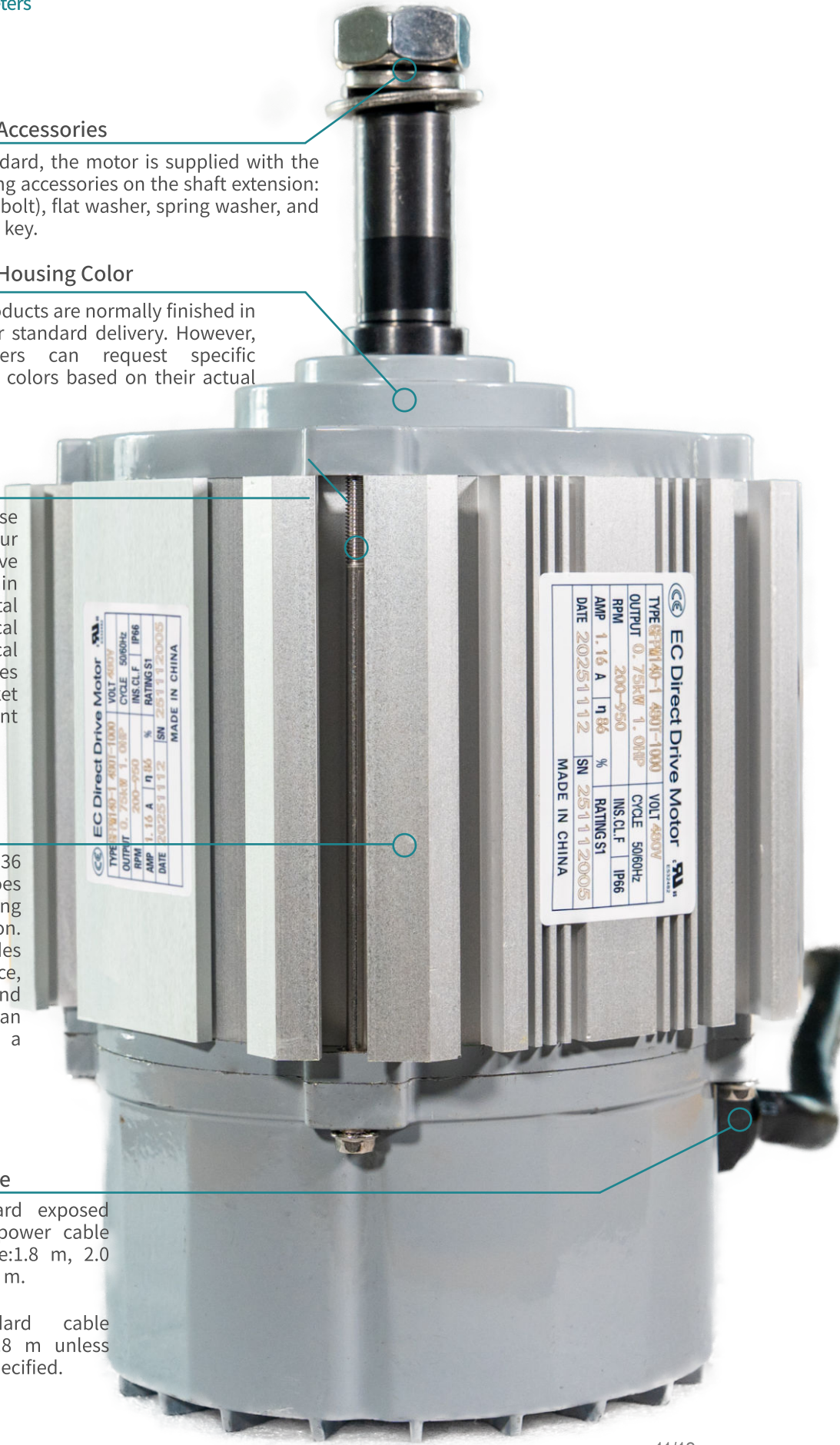
Housing Material

Manufactured from 6036 material, it undergoes multiple processes including acid washing and oxidation. This treatment provides excellent corrosion resistance, oxidation resistance, and offers the advantages of an exquisite appearance and a long service life.

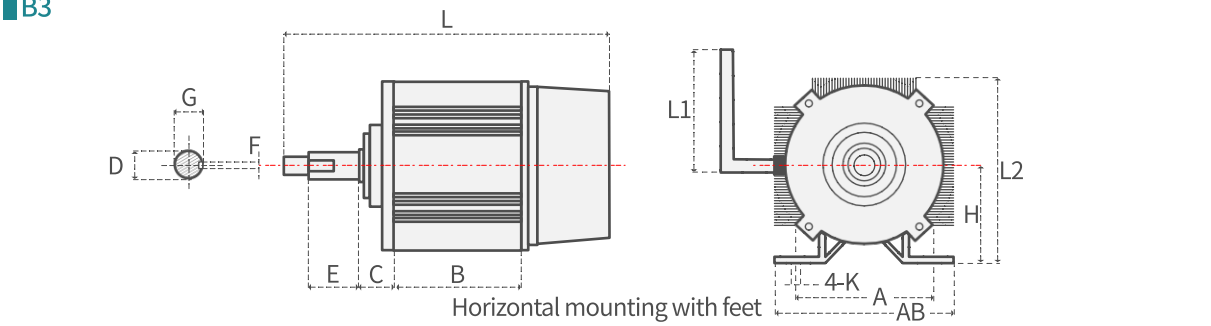
Power Cable

Four standard exposed lengths of power cable are available:1.8 m, 2.0 m, 2.2 m, 2.4 m.

The standard cable length is 1.8 m unless otherwise specified.

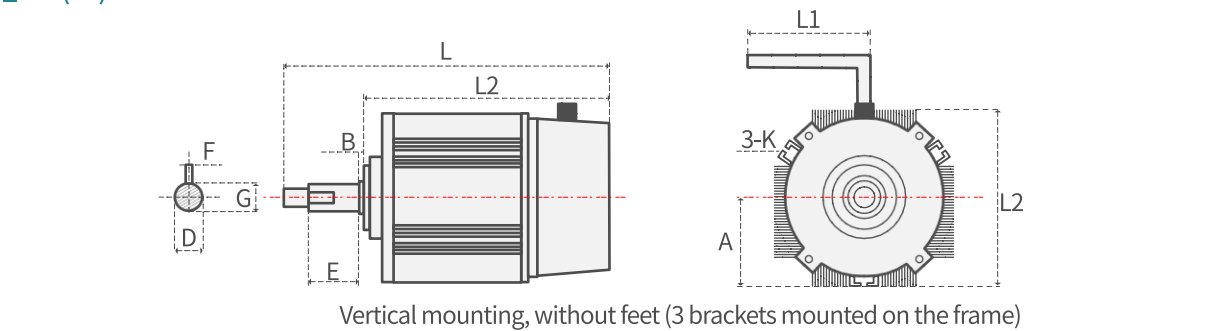


B3



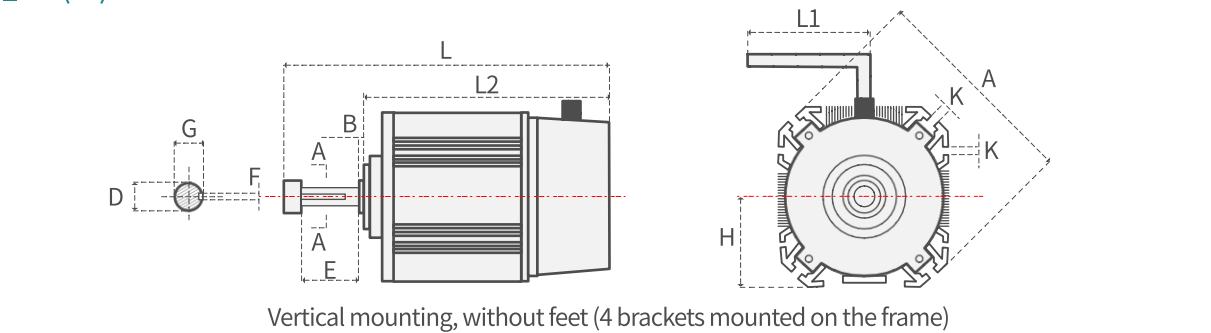
Power Range (kW)	Stator outer diameter	Basic dimensions		Limit deviations	Basic dimensions		Limit deviations	Basic dimensions						
		A	B		C	D		E	F	G	L1	H	K	AB L
0.25~0.75	140	112	90	0 [^] -0.03	45±1.5	24	0 [~] -0.02	50	8	20	1800	73	8	133 295
1.1~1.5	160	140	100	0 [^] -0.03	56±1.5	25.4	0 [~] -0.02	50	6	21.9	1800	90	11	170 325
2.2~3.0	160	140	125	0 [^] -0.03	56±1.5	25.4	0 [~] -0.02	50	8	20	1800	90	11	170 345

B5 (V3)



Power Range (kW)	Stator outer diameter	Basic dimensions		Limit deviations	Basic dimensions	Limit deviations	Basic dimensions				L1	L2	L
		A	B		D		E	F	G	K			
0.25~0.75	140	85	6	0 [^] -0.1	24	0 [~] -0.02	50	8	20	10	1800	220	295
1.1~1.5	160	104	6	0 [^] -0.1	25.4	0 [~] -0.02	50	6	21.9	10	1800	250	325
2.2~3.0	160	104	6	0 [^] -0.1	25.4	0 [~] -0.02	50	8	20	10	1800	270	345

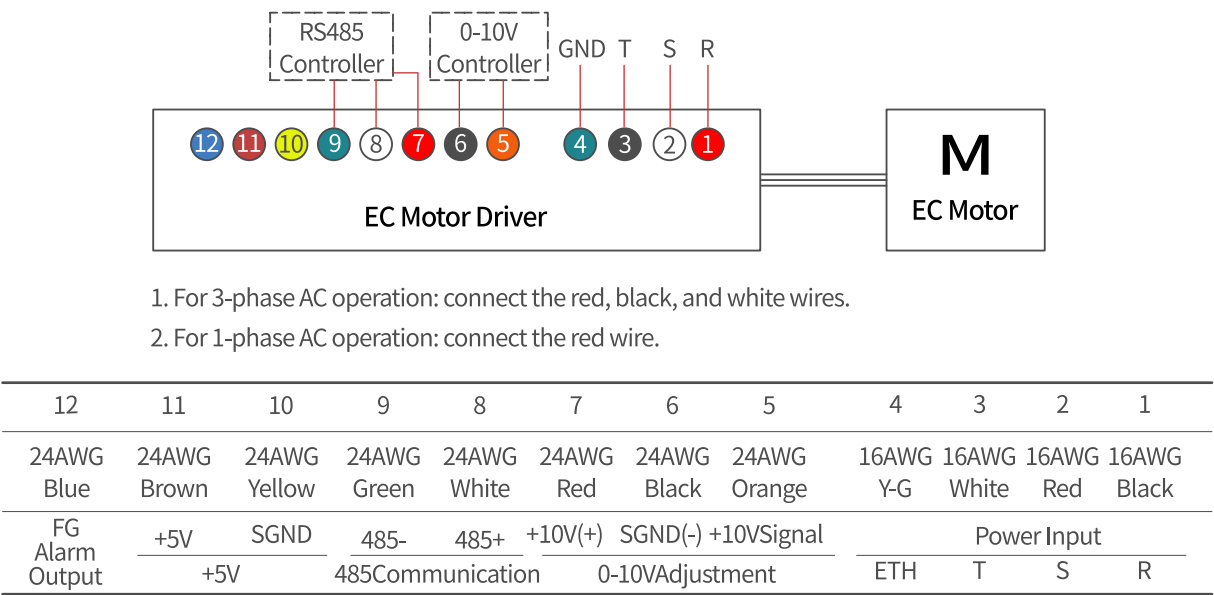
B5 (V4)



Power Range (kW)	Stator outer diameter	Basic dimensions		Limit deviations	Basic dimensions	Limit deviations	Basic dimensions			H	K	L1	L2	L
		A	B		D		E	F	G					
0.25~0.75	140	185	6	0 [^] -0.1	24	0 [~] -0.02	50	8	20	78.5	10	1800	220	295
1.1~1.5	160	208	6	0 [^] -0.1	25.4	0 [~] -0.02	50	6	21.9	87	10	1800	250	325
2.2~3.0	160	208	6	0 [^] -0.1	25.4	0 [~] -0.02	50	8	20	87	10	1800	270	345

Dimensions D, E, F, G and L1 can be manufactured according to customer requirements.

Motor Wiring Diagram



If you wish to short-circuit and directly connect terminals 5 and 7, you must use a dedicated controller and set the control mode to VSP. This will cause the EC motor to run at rated speed.
(Caution: Ensure other wires are properly insulated; accidental short-circuit of any live wire may damage the independent drive unit.)



Good Motor, Gongfu Made