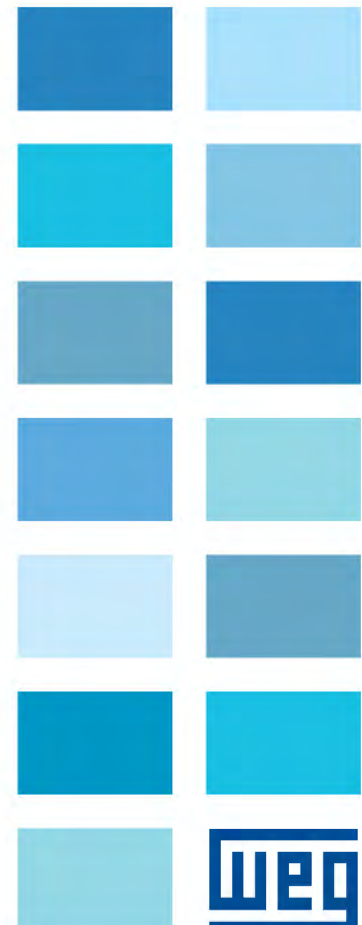
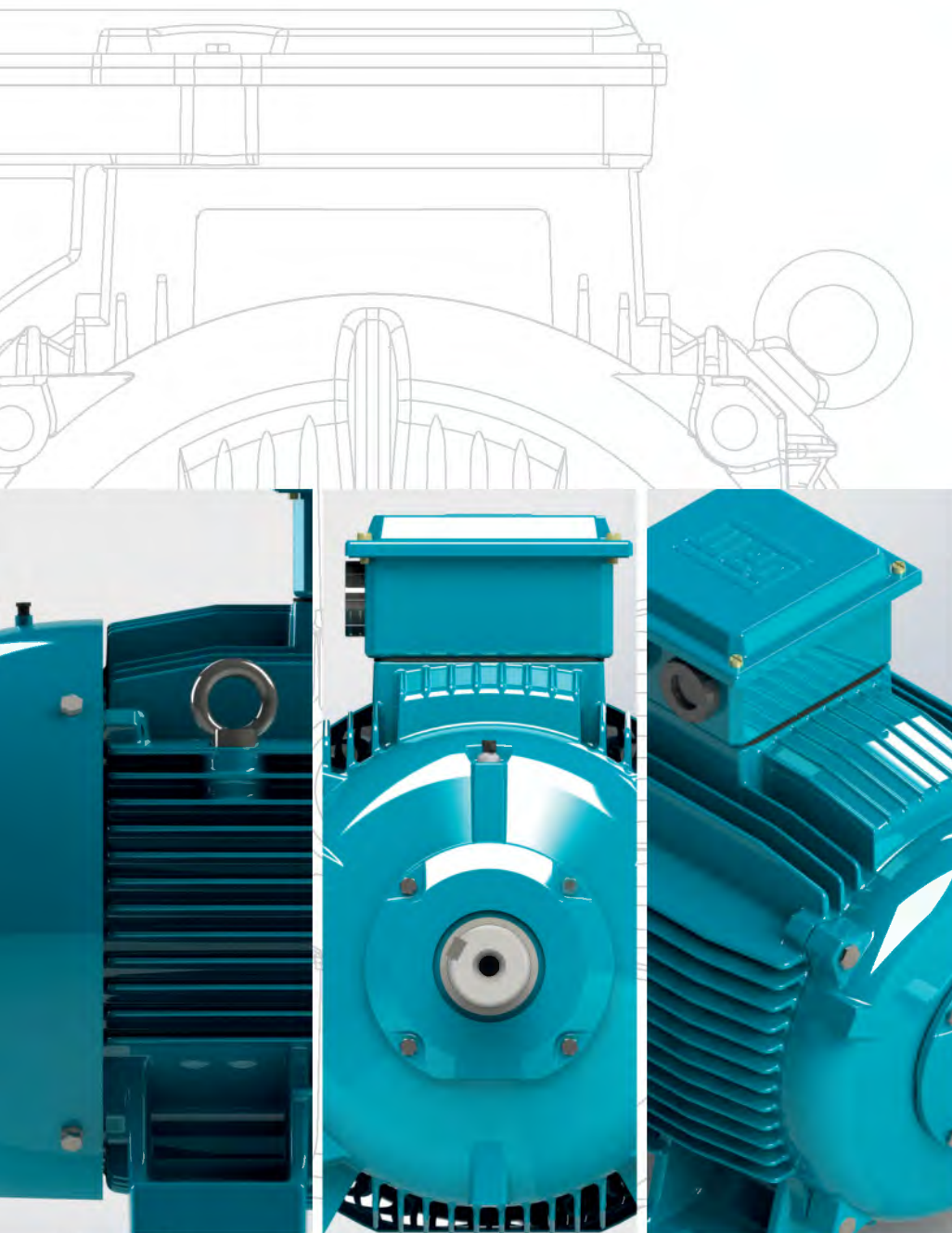


W20

Three Phase Low Voltage Motors

Standard Efficiency, GB3 and GB2

NEW



WEG World wide

WEG was founded in 1961 in Jaraguá do Sul, which is in south of Brazil. As one of the world biggest motor producers, WEG covers an area of more than 2,500,000 square meters. WEG now has Factories in 12 countries and more than 1400 service centers around the world. By now, there are approximately 30000 WEG employees over the world and its annual sales amount is over 3 billion dollars. WEG supplies solutions in five business units: Motors, Automation, Energy, Transmission & Distribution and Coating.

WEG Nantong

Founded in 2005, WEG Nantong is located in Economic Development Zone of Nantong, Jiangsu province, China. It is the first factory in Asia Pacific of WEG. With its area of 67,000 square meters, WEG owns more than 700 employees and supplies low, medium and high voltages motors, frequency inverters and soft starters. Equipped with advanced motor test laboratories, WEG assures each motor the best performance. WEG Nantong provides a significant improvement of lead times and costs for Asian customers and distributors.

WEG Rugao

WEG Rugao is the second factory of WEG group in China, located in Jiangsu Rugao Economic and Technological Development Zone, covers an area of 160,000 square meters, the registered capital of 50 million US Dollars. The factory has entered in operation officially in November, 2015. The forecast of annual production is 500 thousand units of motors, including thousands sets of spare parts. The establishment of Rugao Factory will help to increase WEG's influence in Chinese Market and made WEG product as a preferred brand of our customers.

W20 Motor

W20 motors are specially developed and promoted for those OEMs of conventional applications in China market.

Certifications

WEG China



WEG Global





W20 series High Efficiency Motor

China has published the national standard GB18613-2012 <Energy Efficiency Limits and Energy Efficiency levels for Small and Medium sized three phase induction motors> since May, 2012 and announced the official implementation on September, 1st, 2012.

As one of the world's largest motor manufacturers, WEG actively responds to and supports China's energy saving emission reduction policy. The W20 series complies with GB3 (IE2) and GB2 (IE3) efficiency levels offering to the customers high energy saving products totally in compliance with regulation requirements.

W20 series motors have main benefits as below:

- Low Noise level, Low vibration level
- High Efficiency
- Suitable for WEG frequency drives.



Table of Contents

1. Construction Details.....	6
1.1 Frame.....	6
1.2 End shields	6
1.3 Fan cover	6
1.4 Terminal box.....	6
1.5 Terminal block.....	6
1.6 Bearings	6
1.7 Nameplate	7
1.8 Axial Flow Blower.....	7
W20 Series Motor Structures.....	8
2. Construction Features	9
3. Optional Feature	11
4. Electrical Data.....	12
5. Mechanical Data.....	19
6. Services	22



**W20 Frame 80 to 132
(Aluminum Frame)**



**W20 Frame 160 to 355
(Cast Iron Frame)**



1. Construction Details

1.1 Frame

Aluminum Frames are made of high quality die cast aluminum, providing a light weight and robust enclosure. Available as standard from 80 to 132 frame size. Frame sizes above 112 are all equipped with eyebolts in order to allow easy handling.



Figure 1 -1 Aluminum Frame

For 160 to 355 frame sizes the frame is made in cast iron ensuring reliability and robustness.



Figure 1-2 Cast Iron Frame

1.2 End shields

W20 motors DE and NDE shields are made of cast iron. This new design ensures robustness for long term operation for a wide range of ambients and temperature.



Figure 2-1 DE Endshield



Figure 2-2 NDE Endshield

1.3 Fan cover

W20's fan cover is made of steel plate.



Figure 3 Fan Cover

1.4 Terminal box

As the fan cover, W20 motors' terminal box is made of steel plate and reserves enough space inside to make the wires' connection easy. The terminal box can be rotated at 90 intervals and easily to be installed. The holes of terminal box use China Standard and are filled of plastic plug from factory.

Note: The user shall change plug with cable glands to fulfill the IP55 degree of protection requirement.



Figure 4 - Terminal box

1.5 Terminal Block

The connection wires are in accordance with standard IEC 60034-8 and GB1971-2006, and are matched with appointed terminal block. W20 motors are equipped with BMC terminal block. The picture is as below.

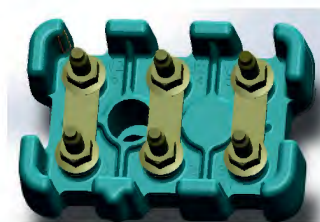


Figure 5 - Terminal block

1.6 Bearings

WEG motors are equipped with ball bearings and have regreasing nipples for frame 225 and above. WEG cooperate with international recognized bearing suppliers to ensure the motor's high performance and extended bearing life time. If a specific bearing brand was required, please contact WEG support team before placing order.

Note 1: Motor with shaft down mounting position shall considered drip cover.

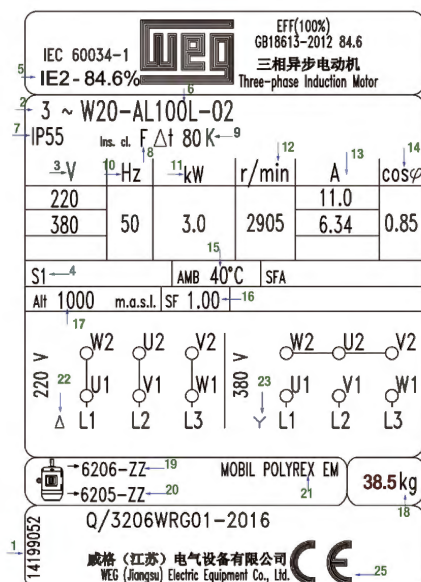
Note 2: For shaft up outdoor applications, the use of slinger can provide extra protection to the bearing.



Figure 6 - Shaft down mounting & shaft up mounting

1.7 Nameplate

Nameplates are made of AISI 304 stainless steel. All the information are printed onto the nameplates by laser. Nameplate included main informations of motor, such as: serial number, output, voltage, current, frequency, protection degree, power factor, insulation class, bearings type, grease and regreasing interval, etc. IEC frame up to 200 has vertical nameplate (figure 7) and frame 225 to 355 has horizontal nameplate (figure 8).



Details on Nameplate:

- | | |
|---------------------------|---------------------------------|
| 1. material number | 14. power factor |
| 2. three phase | 15. ambient temperature |
| 3. rated voltage | 16. service factor |
| 4. duty type | 17. altitude |
| 5. efficiency | 18. weight |
| 6. frame size | 19. Drive End Bearing type |
| 7. degree of protection | 20. Non Drive End Bearing type |
| 8. insulation class | 21. grease |
| 9. temperature rise | 22. Δ connection diagram |
| 10. frequency | 23. Y connection diagram |
| 11. rated power | 24. regreasing interval |
| 12. full load speed (RPM) | 25. certification |
| 13. rated current | |

Figure 7 - Nameplate for frame size 80 to 200

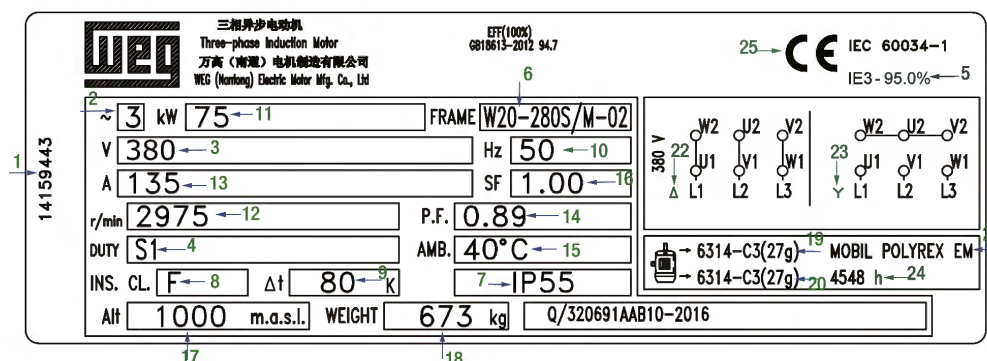


Figure 8 - Nameplate for frame size 225 to 355

1.8 Axial Flow Blower (Optional)

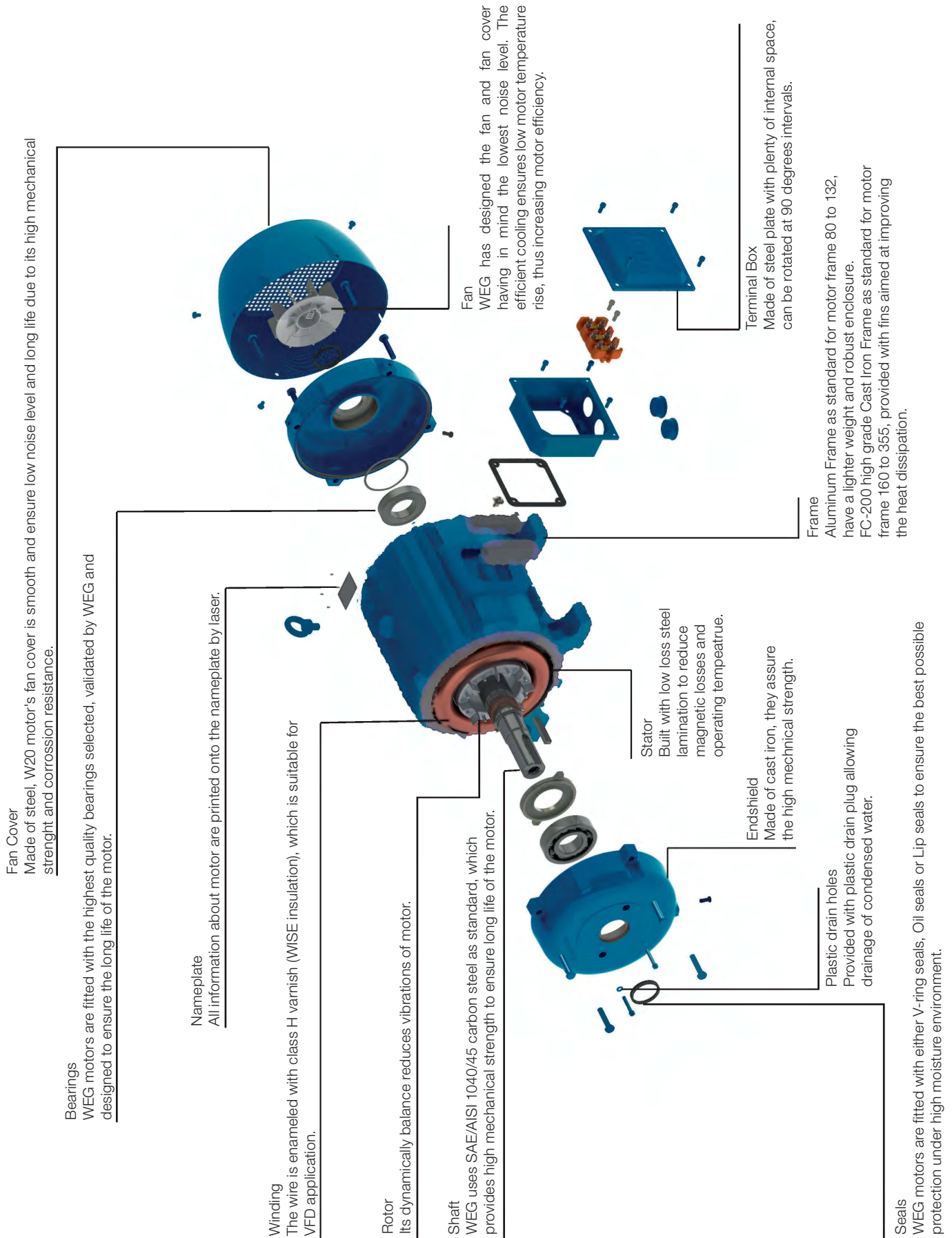
In inverter duty application, it is possible to configure motor according to customer needs with axial flow blower (up to 200 frame) to make a forced ventilation. In case of need, please contact related WEG support team for more details.



Figure 9 - W20 motor with forced ventilation blower

Frame	Poles	Total motor length (L) (mm)	
		Without forced ventilation	With forced ventilation
90S	All	304	548
90L		329	573
100		376	646
112		393	660
132S		452	715
132M		490	753
160M		590	847
160L		634	891
180M		656	900
180L		694	938
200M		721	968
200L		759	1006
225S/M	2	809	1108
	4-8	841	1140
250S/M	2	915	1214
	4-8		
280S/M	2	1026	1322
	4-8		
315S/M	2	1116	1412
	4-8	1146	1442
355M/L	2	1387	1784
	4-8	1457	1859

W20 series motor structure



2. Construction Features

Frame size			80	90S/L	100L	112M	132S	132M
Mechanical features								
Marking/logos on nameplate:			CE; IEC 60034; Q/320691AAB11-2016					
Certification			CCC, CEL					
Mounting			B3T					
Frame	Material		AL					
Degree of protection			IP55					
Grounding			Single grounding					
Cooling method			TEFC					
Fan	Material	2P	Plastic					
		4-8P						
Fan cover	Material		Steel					
Endshields	Material		FC-200 Cast Iron					
Drain plug			Automatic Rubber Drain Plug					
Rolling bearings	Shielded/Clearence DE		ZZ					
	Shielded/Clearence NDE		ZZ					
	Locking		None					
	Bearing life (h)		20000					
	Drive end side	2P	6204	6205	6206	6307	6308	6308
		4-8P						
	Non drive end side	2P	6203	6204	6205	6206	6207	6207
4-8P								
Bearing sealing			V'ring					
Lubrication	Grease type		Mobil Polyrex EM					
	Grease fitting		None					
Terminal block			BMC 6 Terminais					
Terminal box	Material		Steel Plate					
Additional temrinal box			None					
Leads inlet	Main	Size	1XØ25.5			2xØ30		
	Lateral hole	Size	None					
	Additional	Size	None					
	Plug		Plastic plug for transport and storage purposes					
Shaft	Material		AISI 1040/45					
	DE threaded hole	2P	M6	M8	M10	M10	M12	M12
		4 - 8P						
Key			Fitted with "A" type (China key type: B)					
Vibration level			Grade A					
Balancing			With 1/2 key					
Nameplate	Material		Stainless Steel AISI 304					
Painting	Type		201A					
	Color		IE1: RAL 7000 IE2/IE3: RAL 5009					
	Tropicalized		None					
Packaging			Cardboard Box					
Electrical features								
Desing			N					
Voltage			220/380with 6 terminals			380/660V with 6 terminals		
Winding	Impregnation		Dip and Bake					
	Insulation class		F (DT 80K)					
Service factor			1.00					
Thermal protector			None					
Space heaters			None					
Flying leads			None					
Ambient temperature	Maximum		40°C					
	Minium		-20°C					
Starting method			Direct					

Note: For features out of above table, WEG support team shall be consulted.

2. Construction Features

Frame size			160M	160L	180M	180L	200M	200L	225S/M	250S/M	280S/M	315S/M	355M/L	
Mechanical features														
Marking/logos on nameplate:			CE; IEC 60034; Q/320691AAB11-2016											
Certification			CCC, CEL											
Mounting			B3T											
Frame	Material		FC-200 Cast Iron											
Degree of protection			IP55											
Grounding			Single grounding						Double grounding (1 terminal box + 1 outside frame)					
Cooling method			TEFC											
Fan	Material	2P	Plastic										Aluminium	
		4-8P												
Fan cover	Material		Steel											
Endshields	Material		FC-200 Cast Iron											
Drain plug			Automatic Rubber Drain Plug											
Rolling bearings	Shielded/Clearance DE		C3											
	Shielded/Clearance NDE		ZZ-C3						C3					
	Locking		DE bearing locked with inner bearing cap and fitted with wave washer in the NDE bearing						DE bearing locked with inner and outer bearing caps and fitted with pre-load springs in the NDE bearing					
	Bearing life (h)		20000											
	Drive end side	2P	6309	6309	6311	6311	6312	6312	6314	6314	6314	6314	6316	
		4-8P									6316	6319	6322	
	Non drive end side	2P	6209	6209	6211	6211	6212	6212			6314	6314	6314	
		4-8P									6316	6316	6319	
Bearing sealing			V'ring											
Lubrication	Grease type		Mobil Polyrex EM											
	Grease fitting		None						With grease fittings in DE and NDE bearings					
Terminal block			BMC 6 Terminais											
Terminal box	Material		Steel Plate											
Additional temrinal box			None											
Leads inlet	Main	Size	2xØ36.5				2xØ48		2xØ64.5			2xØ64	2xØ72	
	Lateral hole	Size	None											
	Additional	Size	None											
	Plug		Plastic plug for transport and storage purposes											
Shaft	Material		AISI 1040/45										AISI 4140	
	DE threaded hole	2P	M16	M16	M16	M16	M20	M20	M20	M20	M20	M20	M20	
		4 - 8P											M24	
Key			Fitted with "A" type (China key type: B)						Fitted with "B" type (China key type: C)					
Vibration level			Grade A											
Balancing			With 1/2 key											
Nameplate	Material		Stainless Steel AISI 304											
Painting	Type		201A											
	Color		IE1: RAL 7000 IE2/IE3: RAL 5009											
	Tropicalized		None											
Packaging			Crate											
Electrical features														
Desing			N											
Voltage			380/660V with 6 terminals											
Winding	Impregnation		Dip and Bake						Continuous Resin Flow					
	Insulation class		F (DT 80K)											
Service factor			1.00											
Thermal protector			None											
Space heaters			None											
Flying leads			None											
Ambient temperature	Maximum		40°C											
	Minium		-20°C											
Starting method			Direct											

Note: For features out of above table, WEG support team shall be consulted.

3. Optional Features

Frame	80	90S/L	100L	112M	132S	132M	160M	160L	180M	180L	200M	200L	225S/M	250S/M	280S/M	315S/M	355M/L
Mechanical Options																	
Flange																	
Flange FF	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Flange C-DIN	O	O	O	O	O	O	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flange C	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Cooling Fan																	
Plastic	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Fan Cover																	
Steel Plate	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Frame Material																	
Aluminum	SD	SD	SD	SD	SD	SD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cast Iron	E	E	E	E	E	E	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Insulation Class																	
F DT 80K	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
F DT 105K	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
H DT 80K	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
H DT 105K	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
H DT 125K	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Painting Plan																	
201A	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
202E	NA	NA	NA	NA	NA	NA	O	O	O	O	O	O	O	O	O	O	O
202P	NA	NA	NA	NA	NA	NA	O	O	O	O	O	O	O	O	O	O	O
203A	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
205E	O	O	O	O	O	O	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
205P	O	O	O	O	O	O	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
207A	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Prime	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Bearing Seal																	
'V' ring	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Nitrilic rubber lip seal	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Nitrilic rubber oil seal	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Bearing Cap																	
Without bearing cap	SD	SD	SD	SD	SD	SD	O	O	O	O	O	O	NA	NA	NA	NA	NA
Bearing cap	NA	NA	NA	NA	NA	NA	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Shaft																	
SAE 1040/45	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	NA
AISI 4140	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	SD
Degree of Protection																	
IP55	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Grounding																	
Single Grounding	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	NA	NA	NA	NA	NA
Double Grounding	O	O	O	O	O	O	O	O	O	O	O	O	SD	SD	SD	SD	SD
Other Mechanical Option																	
Drip Cover	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Electrical Options																	
Winding thermal protection																	
Thermal Protection - Alarm	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Thermal Protection - Trip	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Space Heater																	
110-127 V	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
200-240 V	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
110-127 / 220-240 V	NA	NA	NA	O	O	O	O	O	O	O	O	O	O	O	O	O	O
380-480 V	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Direction of Rotation																	
Both	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Clockwise	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Counterclockwise	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Service factor																	
Service factor 1.00	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Service factor 1.15	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E

Note: SD = Standard Feature
O = Optional Feature
E = Especial Feature
NA = Not Available

4. Electrical Data

W20 - Aluminum Frame - 80 to 132 Frame- Standard Efficiency

Output		Frame	Full Load Torque (kgfm)	Locked Rotor Current lI/In	Locked Rotor Torque Tl/Tn	Break-down Torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	Rated speed (rpm)	380 V						Full load current In (A)
													% of full load						
													Efficiency			Power Factor			
kW	HP							Hot	Cold				50	75	100	50	75	100	
2P - 3000 RPM - 50Hz																			
0.55	0.75	80	0.191	4.9	2.1	2.4	0.0005	18	40	12.0	59	2805	69.0	70.5	71.0	0.59	0.74	0.83	1.42
0.75	1	80	0.261	5.1	2.2	2.3	0.0006	14	31	12.5	59	2795	69.0	72.0	72.5	0.65	0.79	0.87	1.81
1.1	1.5	80	0.381	5.5	2.5	2.6	0.0008	10	22	13.5	59	2810	74.0	75.0	75.5	0.65	0.78	0.86	2.57
1.5	2	90S/L	0.514	5.4	1.9	2.3	0.0018	8	18	15.0	64	2840	76.0	77.2	77.2	0.70	0.82	0.88	3.35
2.2	3	90S/L	0.752	6.0	2.2	2.6	0.0026	7	15	23.0	64	2850	77.0	78.0	80.0	0.75	0.85	0.89	4.69
3	4	100L*	1.01	7.2	2.3	3.3	0.0056	6	13	31.0	67	2905	75.6	79.6	80.6	0.62	0.76	0.84	6.73
4	5.5	112M	1.35	6.6	2.1	2.7	0.0074	9	20	40.0	64	2880	82.0	83.0	83.1	0.76	0.85	0.90	8.13
5.5	7.5	132S	1.83	6.5	2	2.9	0.0162	13	29	53.0	68	2920	80.4	83.2	83.6	0.64	0.77	0.84	11.9
7.5	10	132S	2.50	7.1	2.2	3	0.0216	6	13	60.0	68	2925	83.3	85.4	85.4	0.67	0.79	0.85	15.7
9.2	12.5	132M	3.06	7.7	2.4	3.1	0.0252	6	13	68.0	68	2925	86.0	87.0	87.0	0.70	0.81	0.86	18.7
High Output Design																			
1.1	1.5	90S/L	0.378	5.1	1.7	2.1	0.0014	9	20	14.5	64	2835	75.4	75.0	75.2	0.70	0.82	0.88	2.53
1.5**	2	80	0.514	6.4	3.1	3.3	0.0012	10	22	19.5	59	2840	76.0	77.0	77.5	0.65	0.78	0.86	3.42
2.2	3	100L	0.740	6.6	2	2.9	0.0043	8	18	23.5	67	2895	73.4	77.4	78.3	0.66	0.79	0.86	4.96
3	4	112M	1.02	5.7	1.7	2.3	0.0059	5	11	38.0	64	2860	80.0	80.5	80.8	0.78	0.86	0.90	6.27
3	4	90S/L	1.04	5.7	2.8	3	0.0025	7	15	29.0	64	2815	80.0	81.0	81.5	0.67	0.79	0.86	6.50
4**	5.5	100L	1.34	8.0	2.4	3.6	0.0075	13	29	41.5	67	2915	82.0	83.5	83.5	0.68	0.80	0.87	8.37
4	5.5	132S	1.34	6.2	1.8	2.6	0.0144	8	18	47.0	68	2910	80.3	82.5	82.6	0.73	0.82	0.87	8.46
5.5	7.5	112M	1.85	7.3	2.5	3.2	0.0094	11	24	45.0	64	2890	85.0	85.0	85.5	0.71	0.82	0.88	11.1
7.5	10	112M	2.55	6.9	2.8	3.3	0.0094	8	18	48.0	64	2870	85.5	86.0	86.0	0.71	0.82	0.87	15.2
11	15	132M	3.68	7.2	2.4	2.8	0.0270	10	22	74.0	68	2910	87.0	88.0	88.0	0.80	0.86	0.89	21.3
4P - 1500 RPM - 50Hz																			
0.37	0.5	80	0.253	4.4	1.4	2.0	0.0019	12	26	14.0	44	1425	57.6	64.0	65.5	0.61	0.74	0.83	1.03
0.55	0.75	80	0.376	4.7	1.6	2.3	0.0024	10	22	15.0	44	1425	61.2	67.4	68.9	0.59	0.73	0.82	1.48
0.75	1	80	0.516	4.7	1.5	2.1	0.0029	9	20	16.0	44	1415	70.0	71.0	72.1	0.65	0.79	0.87	1.82
1.1	1.5	90S/L	0.747	4.7	1.2	2	0.0044	8	18	18.0	49	1435	73.9	74.0	74.7	0.63	0.77	0.85	2.63
1.5	2	90S/L	1.02	5.1	1.3	2.1	0.0063	7	15	22.0	49	1435	74.0	77.0	77.2	0.66	0.78	0.85	3.47
2.2	3	100L	1.50	5.6	2.1	2.6	0.0075	8	18	22.0	53	1430	79.0	80.0	80.0	0.59	0.73	0.81	5.16
3	4	100L	2.07	5.4	2.1	2.5	0.0097	7	15	30.0	53	1415	79.0	79.5	79.9	0.66	0.78	0.84	6.79
4	5.5	112M	2.71	5.7	1.7	2.4	0.0156	8	18	43.0	56	1440	82.0	83.1	93.1	0.64	0.77	0.82	7.96
5.5	7.5	132S	3.68	6.1	1.3	2.4	0.0415	7	15	47.0	60	1455	83.0	83.5	83.9	0.72	0.83	0.87	11.4
7.5	10	132M	4.99	6.8	1.6	3	0.0563	5	11	66.0	60	1465	84.6	85.5	85.6	0.64	0.77	0.83	16.0
High Output Design																			
0.75	1	90S/L	0.506	4.8	1.2	2.1	0.0036	8	18	14.5	49	1445	71.2	74.0	74.0	0.60	0.74	0.83	1.86
1.1	1.5	80	0.760	5.3	2.4	2.7	0.0030	11	24	18.0	44	1410	68.0	72.0	75.0	0.58	0.73	0.82	2.72
1.5	2	100L	1.03	5.0	1.7	2.3	0.0052	7	15	20.0	53	1425	76.0	77.2	77.2	0.59	0.73	0.81	3.64
2.2	3	90S/L	1.51	5.5	1.9	2.3	0.0066	10	22	24.0	49	1420	78.0	79.0	80.0	0.68	0.79	0.85	4.92
3	4	112M	2.02	5.4	1.5	2.2	0.0123	9	20	41.0	56	1445	80.0	81.5	81.5	0.63	0.76	0.82	6.82
4	5.5	132S	2.67	6.1	1.3	2.5	0.0340	10	22	56.0	60	1460	82.0	83.2	83.2	0.68	0.80	0.85	8.59
5.5	7.5	112M	3.73	5.9	2.1	2.6	0.0180	8	18	46.0	56	1435	84.0	84.5	84.7	0.62	0.75	0.81	12.2
9.2**	12.5	132M	6.12	7.7	1.9	3.2	0.0679	5	11	79.0	60	1465	85.5	86.5	87.0	0.67	0.79	0.85	18.9
11	15	132M	7.36	7.4	2.2	3	0.0679	7	15	96.5	60	1455	87.0	88.0	88.0	0.76	0.85	0.89	21.3
6P - 1000 RPM - 50Hz																			
0.37	0.5	80	0.392	3.8	1.7	1.7	0.0027	16	35	13.5	43	920	55.0	60.0	62.0	0.50	0.64	0.73	1.24
0.55	0.75	80	0.576	4.0	1.8	1.8	0.0030	10	22	14.0	43	930	57.0	63.0	65.0	0.51	0.66	0.76	1.69
0.75	1	90S/L	0.803	4.2	1.9	2	0.0041	16	35	19.1	45	910	69.0	70.0	71.0	0.55	0.69	0.79	2.03
1.1	1.5	90S/L	1.16	4.8	2.2	2.1	0.0055	9	20	22.0	45	925	70.0	71.0	73.0	0.53	0.66	0.73	3.14
1.5	2	100L	1.57	4.1	2	2.2	0.0121	17	37	25.0	44	930	72.0	75.5	75.5	0.51	0.65	0.73	4.14
2.2	3	112M	2.28	5.5	2.2	2.3	0.0220	14	31	37.0	48	940	76.0	78.5	78.5	0.53	0.66	0.74	5.75
3	4	132S	3.06	5.3	2	2.2	0.0378	20	44	60.0	52	955	78.0	80.5	80.5	0.55	0.68	0.75	7.55
4	5.5	132M	4.06	5.8	2.3	2.4	0.0492	19	42	59.0	52	960	80.0	81.5	82.0	0.54	0.66	0.74	10.0
5.5	7.5	132M	5.58	6.4	2.2	2.8	0.0681	15	33	73.0	52	960	81.0	83.0	83.5	0.49	0.62	0.71	14.1
High Output Design																			
3	4	112M	3.11	6.3	2.6	2.6	0.0220	10	22	46.0	48	940	79.0	80.0	80.0	0.50	0.64	0.71	8.02
8P - 750 RPM - 50Hz																			
0.18	0.25	80	0.252	2.8	2.2	2.4	0.0022	29	64	13.0	42	695	36.2	44.1	48.6	0.45	0.53	0.62	0.908
0.25	0.33	80	0.348	3.5	2.3	2.2	0.0030	24	53	14.2	42	700	46.1	53.6	56.6	0.42	0.52	0.61	1.10
0.37	0.5	90S/L	0.526	3.0	1.9	1.8	0.0041	32	70	15.4	43	685	50.6	55.5	56.0	0.44	0.55	0.64	1.57
0.55	0.75	90S/L	0.794	3.3	1.9	2	0.0058	25	55	22.0	43	675	58.0	60.0	60.0	0.43	0.56	0.66	2.11
0.75	1	100L	1.04	3.5	1.8	2.4	0.0088	33	73	25.0	50	705	65.0	65.5	66.0	0.42	0.53	0.62	2.78
1.1	1.5	100L	1.53	4.0	1.7	2.3	0.0116	27	59	28.5	50	700	69.0	69.5	70.0	0.45	0.57	0.66	3.62
1.5	2	112M	2.09	4.2	2.2	2.2	0.0183	26	57	36.5	46	700	73.7	75.4	73.5	0.48	0.61	0.70	4.43
2.2	3	132S	3.02	6.1	2.5	2.8	0.0641	22	48	65.0	48	710	75.8	78.0	77.1	0.55	0.68	0.77	5.63
3	4	132M	4.12	6.1	2.2	2.6	0.0789	18	40	66.0	48	710	78.5	80.1	79.0	0.55	0.68	0.76	7.59

W20 - Cast Iron Frame - 160 to 355 Frame- Standard Efficiency

Output		Frame	Full Load Torque (kgfm)	Locked Rotor Current I/In	Locked Rotor Torque TI/Tn	Break-down Torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	Rated speed (rpm)	380 V % of full load						Full load current In (A)
													Efficiency			Power Factor			
													50	75	100	50	75	100	
kW	HP							Hot	Cold										
2P - 3000 RPM - 50Hz																			
11	15	160M	3.63	7.7	2.1	3.3	0.0419	7	15	103	70	2950	86.5	87.5	88.0	0.65	0.77	0.84	22.6
15	20	160M	4.95	8.3	2.3	3.3	0.0534	5	11	127	70	2950	87.0	88.5	89.0	0.68	0.80	0.85	30.1
18.5	25	160L	6.10	9.1	2.7	3.9	0.0653	5	11	157	70	2955	88.5	89.5	89.5	0.62	0.75	0.82	38.3
22	30	180M	7.28	7.2	2.1	3	0.1138	9	20	185	70	2945	90.0	90.5	90.5	0.80	0.87	0.90	41.0
30	40	200L	9.85	7.0	2.5	3	0.1865	20	44	240	74	2965	90.0	91.0	91.2	0.71	0.81	0.86	58.1
37	50	200L	12.2	6.3	2.3	2.5	0.2289	21	46	295	74	2960	91.8	92.4	92.4	0.81	0.87	0.89	68.4
45	60	225S/M	14.8	7.8	2.3	3.2	0.3396	9	20	380	82	2965	90.0	91.0	92.0	0.76	0.85	0.89	83.5
55	75	250S/M	18.1	8.2	2.4	3.6	0.3226	12	26	390	82	2965	89.6	91.5	92.2	0.67	0.78	0.84	108
75	100	280S/M	24.6	6.0	1.4	2.7	0.7110	31	68	624	83	2975	90.9	92.6	93.0	0.74	0.83	0.86	142
90	125	280S/M	29.5	6.6	1.6	2.9	0.8443	26	57	643	83	2975	91.7	93.3	93.7	0.74	0.83	0.87	168
110	150	315S/M	36.0	7.5	1.8	3.2	1.09	20	44	675	84	2975	92.4	93.7	93.8	0.75	0.83	0.87	205
132	175	315S/M	43.2	8.0	2	3.2	1.45	17	37	844	84	2975	93.3	94.0	94.0	0.79	0.86	0.89	240
150	200	315S/M	49.1	7.6	2	3	1.49	16	35	870	84	2975	93.8	94.0	94.2	0.81	0.87	0.90	269
160	220	315S/M	52.4	7.6	1.9	3	1.53	15	33	930	84	2975	93.8	94.0	94.2	0.81	0.87	0.90	287
185	250	315S/M	60.6	6.7	1.7	2.7	1.96	23	51	1010	84	2975	93.7	94.7	94.7	0.84	0.89	0.91	326
200	270	355M/L	65.3	7.6	1.8	2.8	3.91	40	88	1471	81	2985	93.0	94.7	94.9	0.86	0.90	0.92	348
220	300	355M/L	71.8	7.9	1.8	3	4.01	41	90	1512	81	2985	94.0	94.9	94.9	0.85	0.90	0.91	387
250	340	355M/L	81.7	7.1	2	2.5	5.36	37	81	1750	81	2980	94.0	94.9	94.9	0.90	0.92	0.93	430
280	380	355M/L	91.5	7.6	2.3	2.6	5.60	26	57	1820	81	2980	94.5	94.8	94.8	0.90	0.92	0.93	483
300	400	355M/L	98.1	7.2	1.9	2.6	5.93	62	136	1850	83	2980	95.2	95.4	95.4	0.89	0.92	0.92	519
315	430	355M/L	103	6.9	1.9	2.5	5.90	59	130	1850	83	2980	95.2	95.4	95.4	0.89	0.92	0.92	545
330	450	355M/L	108	6.6	1.8	2.4	5.90	62	136	1850	83	2980	95.2	95.4	95.4	0.89	0.92	0.92	571
High-Output Design																			
9.2	12.5	160M	3.05	6.8	1.8	2.8	0.0367	10	22	89.5	70	2940	85.7	86.8	87.0	0.75	0.84	0.88	18.3
22**	30	160L	7.28	8.4	2.4	3.2	0.0805	6	13	194	70	2945	89.0	89.5	90.0	0.74	0.84	0.88	42.2
30	40	180L	9.89	9.2	2.8	3.9	0.1345	5	11	220	70	2955	90.5	91.0	91.0	0.69	0.80	0.85	58.9
55	75	225S/M	18.1	8.2	2.4	3.6	0.3226	11	24	390	82	2965	90.8	91.5	92.5	0.66	0.78	0.83	109
55	75	280S/M	18.1	4.6	1	2	0.5810	11	24	578	83	2965	89.7	91.4	92.2	0.82	0.87	0.88	103
75	100	250S/M	24.7	8.0	2.3	3.1	0.4619	53	117	452	82	2960	90.0	92.5	92.8	0.83	0.89	0.91	135
110	150	280S/M	36.1	5.6	1.6	2.4	1.23	33	73	756	84	2970	92.7	93.7	93.8	0.84	0.89	0.90	198
132	175	280S/M	43.2	7.3	1.8	3	1.31	22	48	768	83	2975	93.5	94.0	94.0	0.79	0.86	0.89	240
200	270	315S/M	65.5	8.0	2.1	3	2.03	15	33	1045	84	2975	93.9	94.7	94.9	0.86	0.90	0.92	348
4P - 1500 RPM - 50Hz																			
9.2	12.5	160M	6.12	5.7	2.2	2.4	0.0732	9	20	95.0	67	1465	86.0	87.0	87.0	0.68	0.79	0.84	19.1
11	15	160M	7.29	5.7	2.3	2.5	0.0877	9	20	102	67	1470	86.0	87.5	88.0	0.68	0.79	0.84	22.6
15	20	160L	9.94	6.2	2.5	2.6	0.1221	9	20	130	67	1470	88.0	88.5	89.0	0.69	0.80	0.85	30.1
18.5	25	180M	12.3	7.5	3	3.4	0.1831	7	15	172	64	1470	88.5	89.5	89.5	0.63	0.75	0.82	38.3
22	30	180L	14.6	7.2	2.9	3.3	0.1923	7	15	182	64	1470	88.8	90.0	90.0	0.64	0.76	0.83	44.7
30	40	200L	19.8	7.0	2.4	2.9	0.3475	8	18	255	69	1475	89.5	90.0	91.0	0.69	0.80	0.85	58.9
37	50	225S/M	24.4	7.4	2.3	3.1	0.6765	8	18	330	70	1480	91.0	91.0	91.5	0.70	0.80	0.85	72.3
45	60	225S/M	29.5	8.1	2.6	3.4	0.8118	13	29	396	70	1485	90.5	91.5	92.0	0.68	0.79	0.84	88.5
55	75	250S/M	36.3	6.1	2	2.5	0.7464	13	29	430	70	1475	92.0	92.0	92.4	0.79	0.86	0.88	103
75	100	280S/M	49.2	7.6	2.2	3	1.48	15	33	647	76	1485	92.5	93.0	93.5	0.70	0.79	0.84	145
90	125	280S/M	59.2	6.8	2	2.5	2.10	24	53	700	76	1480	93.0	93.6	93.6	0.81	0.86	0.88	166
110	150	315S/M	72.1	8.3	2.6	3.3	2.17	22	48	770	77	1485	93.4	93.8	93.8	0.70	0.80	0.84	212
132	175	315S/M	86.6	7.9	2.5	3	2.55	16	35	829	77	1485	93.7	94.2	94.2	0.74	0.83	0.86	248
150	200	315S/M	98.4	8.6	2.8	3.3	2.78	13	29	905	77	1485	93.8	94.5	94.5	0.72	0.81	0.85	284
160	220	315S/M	105	6.9	2.2	2.6	3.09	15	33	930	77	1485	93.8	94.5	94.5	0.80	0.86	0.88	292
185	250	315S/M	121	8.6	2.9	3.2	3.48	11	24	962	77	1485	93.0	94.8	94.8	0.74	0.83	0.86	345
200	270	355M/L	131	6.4	1.8	2.4	5.62	28	62	1525	79	1490	94.6	94.7	94.8	0.79	0.85	0.87	368
220	300	355M/L	144	6.5	1.9	2.3	6.34	26	57	1580	79	1490	94.0	94.7	94.8	0.80	0.86	0.88	401
250	340	355M/L	163	8.1	2.3	2.9	7.22	17	37	1605	79	1490	94.0	94.7	94.8	0.73	0.82	0.85	471
260	350	355M/L	170	7.5	2.2	2.6	7.58	20	44	1615	79	1490	94.0	94.7	94.8	0.76	0.84	0.87	479
280	380	355M/L	183	6.1	1.9	2.2	8.30	30	66	1770	79	1490	94.0	94.7	94.8	0.82	0.87	0.88	510
300	400	355M/L	196	6.5	2.2	2.3	8.59	23	51	1820	79	1490	94.5	94.8	94.8	0.78	0.85	0.87	553
315	430	355M/L	206	7.1	2.4	2.4	9.92	24	53	1850	79	1490	94.0	94.7	94.8	0.81	0.87	0.88	574
330	450	355M/L	216	6.1	2.2	2.1	10.8	28	62	1880	79	1490	94.2	94.8	94.9	0.84	0.88	0.89	594
355	480	355M/L	232	6.3	2	2.2	11.7	31	68	1900	79	1490	94.5	94.9	95.0	0.82	0.87	0.88	645
High-Output Design																			
18.5**	25	160L	12.3	6.3	2.6	2.8	0.1416	8	18	151	67	1470	88.0	89.0	89.3	0.67	0.78	0.84	37.5
30**	40	180L	19.8	7.7	3.4	3.9	0.2680	6	13	256	64	1475	88.5	90.0	90.7	0.54	0.68	0.76	66.1
37**	50	200L	24.4	8.1	2.9	3.4	0.4402	7	15	324	69	1480	90.0	91.0	91.5	0.63	0.75	0.82	74.9
37	50	250S/M	24.4	7.2	2.2	3	0.6723	7	15	400	70	1480	91.0	91.0	91.4	0.66	0.78	0.83	74.1
55	75	225S/M	36.3	6.3	2	2.5	0.7464	8	18	430	70	1475	92.0	92.0	92.5	0.79	0.86	0.88	103
75	100	250S/M	49.4	7.0	2.4	2.9	1.11	13	29	510	70	1480	92.0	92.6	93.0	0.75	0.83	0.87	141
90	125	315S/M	59.0	7.8	2.4	3.1	1.93												

W20 - Cast Iron Frame - 160 to 355 Frame- Standard Efficiency

Output		Frame	Full Load Torque (kgfm)	Locked Rotor Current lI/In	Locked Rotor Torque TI/Tn	Break-down Torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	Rated speed (rpm)	380 V						Full load current In (A)
													% of full load						
								Efficiency					Power Factor						
kW	HP							Hot	Cold				50	75	100	50	75	100	
6P - 1000 RPM - 50Hz																			
7.5	10	160M	7.57	5.7	2.0	2.3	0.0983	11	24	100	56	965	84.0	85.0	85.0	0.64	0.76	0.83	16.2
9.2	12.5	160L	9.29	6.0	2	2.6	0.1191	10	22	115	56	965	85.0	86.0	86.0	0.63	0.75	0.82	19.8
11	15	160L	11.1	6.0	2.2	2.6	0.1471	11	24	125	56	965	86.5	87.0	87.0	0.65	0.77	0.83	23.1
15	20	180L	15.0	7.5	2.3	2.7	0.2705	7	15	163	56	975	87.0	88.0	88.0	0.76	0.84	0.88	29.4
18.5	25	200L	18.5	6.0	2.1	2.5	0.2984	11	24	213	58	975	88.0	89.0	89.0	0.64	0.76	0.82	38.5
22	30	200L	22.0	6.0	2.3	2.4	0.3510	14	31	235	58	975	88.0	89.0	89.5	0.64	0.75	0.80	46.7
30	40	225S/M	29.7	7.2	2.6	2.7	0.9253	20	44	366	61	985	90.0	91.3	91.3	0.77	0.84	0.87	57.4
37	50	250S/M	36.8	7.5	2.7	2.6	1.16	18	40	440	61	980	91.8	91.9	91.9	0.77	0.85	0.87	70.3
45	60	280S/M	44.5	6.8	2.1	2.6	1.68	24	53	580	66	985	89.5	91.5	92.0	0.66	0.76	0.81	91.7
55	75	280S/M	54.4	6.5	2.3	2.5	2.36	23	51	616	66	985	91.0	92.5	92.5	0.71	0.82	0.85	106
75	100	315S/M	74.2	6.7	2.3	2.5	2.80	20	44	768	69	985	91.0	93.0	93.0	0.71	0.81	0.85	144
90	125	315S/M	89.0	6.3	2.1	2.3	3.35	18	40	818	69	985	92.0	93.1	93.3	0.71	0.80	0.84	174
110	150	315S/M	109	6.4	2.3	2.4	4.14	18	40	942	69	985	93.0	93.8	93.8	0.71	0.80	0.84	212
132	175	315S/M*	131	6.3	2.1	2.2	5.14	13	29	990	69	985	93.0	94.0	94.0	0.72	0.81	0.85	251
150	200	355M/L	147	6.2	2	2.1	8.85	30	66	1650	73	995	92.8	94.9	95.3	0.68	0.76	0.81	295
160	220	355M/L	157	6.2	1.9	2.1	9.24	28	62	1485	73	990	93.0	95.0	95.3	0.67	0.77	0.82	311
185	250	355M/L	182	6.0	1.9	2.1	9.94	19	42	1530	73	990	93.0	94.2	94.8	0.68	0.76	0.81	366
200	270	355M/L	197	6.3	2.1	2.3	12.0	21	46	1700	73	990	93.5	94.5	94.8	0.70	0.78	0.81	396
220	300	355M/L	215	6.6	2.4	2.6	12.8	14	31	1795	73	995	93.4	94.8	95.3	0.65	0.75	0.80	438
250	340	355M/L	245	6.5	2.3	2.6	13.0	18	40	1830	73	995	94.0	94.2	94.5	0.63	0.74	0.79	509
260	350	355M/L	255	6.2	2.2	2.4	13.2	15	33	1830	73	995	94.0	95.1	95.6	0.66	0.76	0.80	517
280	380	355M/L	275	5.7	2	2.2	13.5	18	40	1830	73	990	94.3	95.2	95.4	0.69	0.78	0.81	551
300	400	355M/L*	295	5.8	2.1	2.4	14.3	14	31	1920	73	990	94.0	95.5	95.6	0.65	0.75	0.80	596
315	430	355M/L*	308	6.0	1.9	1.9	15.0	38	84	1950	73	995	94.3	94.8	94.9	0.69	0.78	0.81	623
High-Output Design																			
37	50	225S/M	36.8	7.5	2.7	2.6	1.16	18	40	440	61	980	91.8	91.9	91.9	0.77	0.85	0.87	70.3
45	60	250S/M	44.5	8.0	2.8	2.8	1.29	18	40	490	61	985	90.5	91.8	92.1	0.76	0.84	0.87	85.3
75	100	280S/M	74.2	6.7	2.3	2.5	2.80	20	44	768	69	985	91.0	93.0	93.0	0.71	0.81	0.85	144
90	125	280S/M	89.0	6.3	2.1	2.3	3.36	18	40	818	69	985	92.0	93.1	93.3	0.71	0.80	0.84	174
132	175	355M/L	129	5.8	1.9	2.3	7.42	8	18	1385	73	995	94.3	94.7	94.7	0.66	0.76	0.80	265
8P - 750 RPM - 50Hz																			
4	5.5	160M	5.37	4.7	2.2	2.4	0.0980	18	40	97.0	51	725	80.0	82.0	82.0	0.50	0.63	0.72	10.3
5.5	7.5	160M	7.39	4.8	2.2	2.3	0.1191	18	40	107	51	725	81.0	83.0	83.5	0.48	0.62	0.71	14.1
7.5	10	160L	10.1	4.7	2.2	2.3	0.1471	16	35	122	51	725	83.0	85.0	85.5	0.50	0.64	0.73	18.3
9.2	12.5	180M	12.3	6.7	2.2	2.9	0.2308	11	24	163	51	730	83.0	86.0	85.9	0.64	0.75	0.81	20.1
11	15	180L	14.8	6.8	2.3	2.5	0.2993	11	24	175	51	725	87.0	88.5	88.3	0.68	0.79	0.84	22.5
15	20	200L	20.0	4.6	1.8	2.1	0.3672	15	33	217	53	730	86.5	88.6	89.0	0.54	0.66	0.73	35.1
18.5	25	225S/M	24.7	6.9	2.1	2.8	0.8328	17	37	341	56	730	88.5	90.1	90.0	0.72	0.80	0.85	36.7
22	30	225S/M	29.4	7.5	2.2	2.7	0.9716	19	42	365	56	730	89.0	91.0	91.0	0.73	0.82	0.85	43.2
30	40	250S/M	40.0	7.9	2.3	2.9	1.16	17	37	440	56	730	89.5	91.2	91.6	0.70	0.79	0.84	59.2
37	50	280S/M	48.7	6.5	1.9	2.3	2.04	29	64	570	59	740	88.5	89.0	89.5	0.65	0.75	0.79	79.5
45	60	280S/M	59.2	6.0	1.8	2.3	2.37	26	57	624	59	740	90.0	90.5	90.5	0.59	0.70	0.75	101
55	75	315S/M	72.4	6.5	1.9	2.2	3.05	27	59	745	62	740	91.2	93.1	93.0	0.69	0.78	0.82	110
75	100	315S/M	98.7	6.6	1.9	2.2	4.29	20	44	876	62	740	92.0	93.4	93.5	0.67	0.79	0.82	149
90	125	315S/M	118	6.8	2.1	2.4	5.18	23	51	985	62	740	92.5	93.8	94.2	0.65	0.76	0.81	179
110	150	355M/L	145	6.4	1.5	2.2	9.80	41	90	1390	70	740	92.5	94.1	94.5	0.63	0.74	0.80	221
132	175	355M/L	174	5.5	1.3	2.2	11.3	28	62	1445	70	740	93.0	94.5	94.8	0.68	0.77	0.81	261
150	200	355M/L	197	6.9	1.8	2.8	12.9	36	79	1570	70	740	93.0	94.7	94.7	0.60	0.72	0.78	309
160	220	355M/L	211	5.4	1.2	2.1	13.8	28	62	1620	70	740	93.3	94.7	94.7	0.68	0.77	0.81	317
185	250	355M/L	244	6.2	1.5	2.4	15.9	30	66	1730	70	740	93.0	94.6	95.1	0.67	0.77	0.81	365
200	270	355M/L	263	6.1	1.4	2.4	18.4	37	81	1830	70	740	93.3	94.6	95.2	0.67	0.77	0.81	394
220	300	355M/L	288	7.5	1.9	3	19.9	35	77	1930	70	744	93.4	94.7	95.2	0.59	0.71	0.77	456
High-Output Design																			
18.5	25	250S/M	24.7	6.9	2.1	2.8	0.8328	17	37	341	56	730	88.5	90.1	90.0	0.72	0.80	0.85	36.7
22	30	250S/M	29.4	7.5	2.2	2.7	0.9716	19	42	365	56	730	89.0	91.0	91.0	0.73	0.82	0.85	43.2
30	40	225S/M	40.0	7.9	2.3	2.9	1.16	17	37	440	56	730	89.5	91.2	91.6	0.70	0.79	0.84	59.2
37	50	250S/M	49.4	8.2	2.6	3.5	1.48	13	29	455	56	730	89.0	90.0	90.2	0.63	0.75	0.81	76.9
55	75	280S/M	72.4	6.5	1.9	2.2	3.05	27	59	745	62	740	91.2	93.1	93.0	0.69	0.78	0.82	110
75	100	280S/M	98.7	6.6	1.9	2.2	4.29	20	44	876	62	740	92.0	93.4	93.5	0.67	0.79	0.82	149
110	150	315S/M	145	7.0	1.9	2.2	5.53	14	31	970	62	740	92.5	94.1	94.6	0.61	0.73	0.79	224

Note: GB efficiency value based on GB18613-2012 standard, data measured on direct on line starting.

IE efficiency value based on IEC60034-2-1 standard, data measured on direct on line starting.

(*) Insulation Class "F", temperature rise as Delta T 105K.

(**) The motor frame with extended endshield.

W20 - Aluminum Frame - 80 to 132 Frame- GB3 (IE2) Efficiency

Output		Frame	Full Load Torque (kgfm)	Locked Rotor Current II/In	Locked Rotor Torque TI/Tn	Break-down Torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	380 V							
								Rated speed (rpm)	% of full load						Full load current In (A)				
									Efficiency			Power Factor							
kW	HP							Hot	Cold				50	75	100	50	75	100	
2P - 3000 RPM - 50Hz																			
0.75	1	80	0.264	5.2	2.9	2.8	0.0005	28	62	13.0	59	2770	77.0	77.4	77.4	0.62	0.75	0.83	1.77
1.1	1.5	80	0.386	5.7	3.2	3	0.0008	15	33	14.0	59	2775	78.0	79.0	79.6	0.68	0.81	0.87	2.41
1.5	2	90S/L	0.514	6.4	2.9	3	0.0018	12	26	17.5	62	2840	79.5	80.6	81.3	0.67	0.79	0.85	3.30
2.2	3	90S/L	0.759	6.1	2.9	3	0.0022	10	22	23.5	62	2825	81.6	83.2	83.2	0.71	0.81	0.87	4.62
3	4	100L	1.01	7.6	2.4	3.5	0.0062	6	13	38.5	67	2905	81.0	82.8	84.6	0.66	0.78	0.85	6.34
4	5.5	112M	1.35	7.1	2.3	3.1	0.0077	9	20	35.0	64	2895	83.8	85.4	85.8	0.69	0.80	0.86	8.24
5.5	7.5	132S	1.83	6.9	2.1	3	0.0180	10	22	54.5	67	2925	85.9	87.0	87.0	0.69	0.81	0.84	11.4
7.5	10	132S	2.50	7.2	2.2	3.1	0.0216	7	15	65.5	67	2925	87.1	88.1	88.1	0.69	0.80	0.84	15.4
9.2	12.5	132M	3.08	7.1	2.4	2.9	0.0234	11	24	70.0	67	2910	88.0	88.8	88.8	0.75	0.85	0.87	18.1
High-Output Design																			
0.75	1	90S/L	0.255	6.3	2.7	3.0	0.0012	18	40	11.5	62	2870	71.6	75.8	77.4	0.64	0.76	0.83	1.77
1.1	1.5	90S/L	0.376	6.4	2.7	2.9	0.0015	21	46	14.5	62	2850	76.5	79.4	79.6	0.70	0.81	0.86	2.44
1.5**	2	80	0.526	5.7	3.4	3.1	0.0010	15	33	15.0	59	2775	81.0	81.3	81.3	0.68	0.80	0.86	3.26
2.2	3	100L	0.743	7.2	2.6	3.4	0.0043	9	20	32.0	67	2885	80.3	82.4	83.2	0.68	0.79	0.86	4.67
3**	4	90S/L	1.03	6.4	3.4	3.6	0.0030	14	31	25.0	62	2845	83.6	84.6	84.6	0.64	0.77	0.83	6.49
4	5.5	100L	1.36	7.7	2.9	3.4	0.0064	8	18	40.0	67	2875	85.0	85.8	85.8	0.75	0.85	0.89	7.96
5.5**	7.5	112M	1.85	7.5	2.4	3.3	0.0116	8	18	51.0	64	2900	86.0	87.0	87.0	0.74	0.84	0.87	11.0
7.5**	10	112M	2.53	7.9	3.3	3.8	0.0109	10	22	48.0	64	2890	87.5	88.1	88.1	0.68	0.80	0.83	15.6
11	15	132M	3.68	7.4	2.5	2.9	0.0270	10	22	74.0	67	2910	88.0	89.0	89.4	0.77	0.85	0.87	21.5
4P - 1500 RPM - 50Hz																			
0.55	0.75	80	0.379	5.3	2.2	2.7	0.0024	19	42	10.5	44	1415	76.4	77.1	77.1	0.60	0.74	0.83	1.31
0.75	1	80	0.516	5.4	2.4	2.7	0.0029	14	31	13.0	44	1415	77.2	78.7	79.6	0.60	0.74	0.83	1.72
1.1	1.5	90S/L	0.741	6.1	2	2.7	0.0049	13	29	18.5	49	1445	81.0	81.4	81.4	0.60	0.73	0.81	2.53
1.5**	2	90S/L	1.01	6.1	1.7	2.8	0.0071	9	20	20.0	49	1450	81.6	82.8	82.8	0.58	0.73	0.80	3.44
2.2	3	100L	1.49	6.4	2.6	3.1	0.0097	10	22	28.5	53	1440	83.1	84.3	84.3	0.58	0.72	0.80	4.96
3**	4	100L	2.05	6.2	2.6	3	0.0119	15	33	35.0	53	1425	84.3	84.8	85.5	0.61	0.74	0.81	6.58
4	5.5	112M	2.69	6.4	1.9	2.8	0.0182	10	22	45.0	56	1450	85.0	86.0	86.6	0.61	0.74	0.80	8.77
5.5	7.5	132S	3.66	7.1	1.6	2.9	0.0491	7	15	58.5	56	1465	87.5	87.7	87.7	0.67	0.79	0.84	11.3
7.5	10	132M	4.99	7.4	1.8	3.2	0.0638	6	13	65.0	56	1465	88.1	88.7	88.7	0.64	0.77	0.83	15.5
9.2	12.5	132M	6.14	7.7	2.2	3.4	0.0601	7	15	75.0	56	1460	88.0	89.3	89.3	0.65	0.78	0.83	18.9
High-Output Design																			
0.75	1	90S/L	0.506	6.0	1.9	2.7	0.0038	12	26	13.0	49	1445	78.6	79.6	79.6	0.59	0.73	0.81	1.77
1.1**	1.5	80	0.763	5.9	2.7	2.9	0.0037	18	40	15.5	44	1405	80.0	81.4	81.4	0.66	0.79	0.86	2.39
1.5	2	100L	1.02	5.7	2	2.6	0.0067	8	18	19.5	53	1430	81.5	82.5	82.8	0.62	0.75	0.82	3.36
2.2	3	112M	1.47	6.9	2	3.1	0.0143	8	18	35.5	56	1460	81.8	84.3	84.3	0.56	0.70	0.77	5.15
2.2**	3	90S/L	1.49	6.5	2.4	3	0.0071	12	26	22.0	49	1440	83.0	84.3	84.3	0.57	0.72	0.80	4.96
4	5.5	132S	2.66	7.0	1.6	3	0.0378	12	26	45.0	56	1465	86.0	86.6	86.6	0.63	0.76	0.82	8.56
5.5**	7.5	112M	3.73	5.9	2.1	2.7	0.0193	10	22	48.0	56	1435	85.5	86.0	86.2	0.61	0.74	0.81	12.0
6P - 1000 RPM - 50Hz																			
0.37	0.5	80	0.396	3.9	1.8	2.0	0.0022	27	59	14.0	43	910	63.0	67.0	67.6	0.47	0.62	0.72	1.15
0.55	0.75	80	0.576	4.5	2.3	2.5	0.0034	21	46	15.0	43	930	65.0	71.0	73.1	0.50	0.62	0.72	1.59
0.75	1	90S/L	0.790	4.5	2	2.1	0.0055	23	51	21.0	45	925	74.5	76.0	76.0	0.51	0.64	0.73	2.05
1.1	1.5	90S/L	1.16	4.7	2.3	2.2	0.0066	17	37	23.0	45	925	76.0	78.1	78.1	0.50	0.63	0.73	2.93
1.5	2	100L	1.55	5.0	2	2.4	0.0126	23	51	28.5	44	940	79.5	80.0	80.0	0.51	0.64	0.73	3.90
2.2	3	112M	2.26	6.2	2.6	3	0.0220	17	37	40.7	52	950	80.5	82.7	82.7	0.51	0.64	0.73	5.54
3	4	132S	3.01	6.0	1.9	2.7	0.0454	19	42	60.0	52	970	82.5	83.6	83.6	0.52	0.65	0.73	7.47
4	5.5	132M	4.04	6.0	2.1	2.5	0.0568	21	46	62.0	52	965	84.0	84.8	84.8	0.51	0.64	0.72	9.95
5.5	7.5	132M	5.58	6.4	2.2	2.7	0.0606	19	42	75.0	52	960	85.5	86.1	86.1	0.51	0.64	0.72	13.5
8P - 750 RPM - 50Hz																			
0.18	0.25	80	0.262	3.1	1.9	2.2	0.0024	48	106	13.0	42	670	47.0	53.0	55.0	0.44	0.55	0.65	0.765
0.25	0.33	80	0.363	3.2	2	2.2	0.0029	42	92	14.3	42	670	49.0	55.0	57.0	0.43	0.55	0.66	1.01
0.37	0.5	90S/L	0.522	3.5	1.8	2	0.0044	37	81	18.6	43	690	56.0	62.0	62.0	0.41	0.52	0.62	1.46
0.55	0.75	90S/L	0.782	3.5	1.9	2	0.0060	31	68	22.0	43	685	61.0	64.0	64.0	0.44	0.56	0.66	1.98
0.75	1	100L	1.03	4.6	2	2.4	0.0116	42	92	30.5	50	710	71.0	74.0	74.0	0.40	0.52	0.62	2.48
1.1	1.5	100L	1.52	4.6	2.1	2.3	0.0127	29	64	32.0	50	705	70.0	73.5	73.5	0.40	0.53	0.62	3.67
1.5	2	112M	2.09	4.7	2.4	2.3	0.0202	29	64	39.0	46	700	77.0	79.0	79.0	0.44	0.57	0.67	4.31
2.2	3	132S	3.06	5.5	2.2	2.4	0.0592	25	55	66.0	48	700	81.0	81.5	81.0	0.52	0.65	0.72	5.73
3	4	132M	4.17	5.5	2.3	2.4	0.0740	19	42	68.0	48	700	82.0	82.5	82.0	0.54	0.66	0.73	7.61

Note: GB efficiency value based on GB18613-2012 standard, data measured on direct on line starting.

IE efficiency value based on IEC60034-2-1 standard, data measured on direct on line starting.

(*) Insulation Class "F", temperature rise as Delta T 105K.

(**) The motor frame with extended endshield.

W20 - Cast Iron Frame - 160 to 355 Frame- GB3 (IE2) Efficiency

Output		Frame	Full Load Torque (kgfm)	Locked Rotor Current I/In	Locked Rotor Torque Tl/Tn	Break-down Torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	Rated speed (rpm)	380 V						Full load current In (A)
													% of full load						
								Hot	Cold				Efficiency			Power Factor			
kW	HP												50	75	100	50	75	100	
2P - 3000 RPM - 50Hz																			
11	15	160M	3.64	7.2	1.9	3.0	0.0450	9	20	80.0	70	2945	87.9	89.3	89.4	0.72	0.82	0.86	21.7
15	20	160M	4.97	7.3	2	2.9	0.0534	7	15	95.0	70	2940	89.3	90.2	90.3	0.73	0.83	0.87	29.0
18.5	25	160L	6.12	8.0	2.2	3.1	0.0674	6	13	120	70	2945	90.4	90.9	90.9	0.74	0.84	0.88	35.1
22	30	180M	7.26	7.9	2.3	3.3	0.1138	8	18	170	70	2950	91.0	91.3	91.3	0.74	0.83	0.87	42.1
30	40	200L	9.89	5.9	2.1	2.5	0.1618	21	46	190	74	2955	91.4	92.0	92.0	0.72	0.81	0.85	58.3
37	50	200L	12.2	6.7	2.4	2.8	0.1958	16	35	242	74	2960	91.7	92.5	92.5	0.69	0.79	0.84	72.3
45	60	225S/M	14.8	8.0	2.3	3.6	0.2897	17	37	304	82	2965	91.4	92.9	92.9	0.66	0.78	0.83	88.7
55	75	250S/M	18.1	7.7	2.3	3.2	0.3592	17	37	383	82	2965	93.0	93.2	93.2	0.77	0.85	0.88	102
75	100	280S/M	24.6	6.1	1.5	2.6	0.8542	44	97	543	83	2975	93.0	93.8	93.8	0.82	0.87	0.89	136
90	125	280S/M	29.5	6.5	1.6	2.7	0.9441	32	70	600	83	2975	93.5	94.1	94.1	0.82	0.87	0.89	163
110	150	315S/M	36.0	7.6	1.9	3.1	1.16	21	46	741	83	2975	94.0	94.3	94.3	0.79	0.86	0.89	199
132	175	315S/M	43.2	7.2	1.8	2.8	1.42	21	46	830	83	2975	94.0	94.6	94.6	0.83	0.89	0.90	236
150	200	315S/M	49.1	8.0	2	3.1	1.59	18	40	853	83	2975	94.5	94.7	94.7	0.81	0.87	0.90	267
160	220	315S/M	52.4	7.4	1.9	2.8	1.68	18	40	900	83	2975	94.5	94.8	94.8	0.84	0.89	0.91	282
185	250	315S/M	60.6	7.9	2	3.1	1.74	12	26	952	83	2975	94.8	95.0	95.0	0.80	0.87	0.90	329
200	270	315S/M	65.5	7.6	2	2.9	1.92	16	35	1004	83	2975	94.8	95.0	95.0	0.82	0.88	0.90	355
200	270	355M/L	65.3	7.8	2	3	3.88	41	90	1278	81	2985	94.8	95.0	95.0	0.84	0.90	0.91	351
220	300	355M/L	71.8	7.9	1.9	2.9	4.31	39	86	1420	81	2985	94.8	95.0	95.0	0.85	0.90	0.92	382
250	340	355M/L	81.7	6.6	1.6	2.4	4.85	44	97	1650	81	2980	94.8	95.0	95.0	0.89	0.92	0.92	435
280	380	355M/L	91.5	6.7	2	2.4	5.06	34	75	1723	81	2980	94.8	95.0	95.0	0.90	0.93	0.93	482
300	400	355M/L	97.9	7.7	2	2.7	5.60	33	73	1906	83	2985	94.8	95.0	95.0	0.89	0.92	0.93	516
315	430	355M/L	103	7.3	1.9	2.6	5.60	32	70	1906	83	2980	94.8	95.0	95.0	0.89	0.92	0.93	542
330	450	355M/L	108	6.7	1.8	2.3	6.03	34	75	1960	83	2985	94.8	95.0	95.0	0.91	0.93	0.93	567
High-Output Design																			
75	100	250S/M	24.7	6.9	2.0	2.8	0.4415	14	31	468	82	2955	93.0	93.8	93.8	0.82	0.88	0.90	135
110	150	280S/M	36.0	7.5	1.8	3.1	1.11	22	48	715	83	2975	94.1	94.3	94.3	0.77	0.85	0.88	201
4P - 1500 RPM - 50Hz																			
11	15	160M	7.31	5.8	2.2	2.6	0.1071	14	31	100	67	1465	89.0	89.8	89.8	0.67	0.78	0.83	22.4
15	20	160L	9.97	6.0	2.3	2.6	0.1318	10	22	130	67	1465	89.9	90.4	90.6	0.68	0.79	0.84	29.9
18.5	25	180M	12.3	6.9	2.6	3	0.1923	9	20	167	64	1470	90.9	91.2	91.2	0.68	0.79	0.84	36.7
22	30	180L	14.6	6.8	2.6	2.9	0.2398	9	20	209	64	1470	91.0	91.6	91.6	0.70	0.80	0.85	42.9
30	40	200L	19.7	7.0	2.4	2.9	0.3476	8	18	210	69	1480	92.1	92.3	92.3	0.67	0.78	0.84	58.8
37	50	225S/M	24.3	7.4	2.2	2.9	0.7804	8	18	340	70	1485	92.0	92.7	92.7	0.73	0.82	0.86	70.5
45	60	225S/M	29.6	7.7	2.4	3	0.9501	8	18	414	70	1480	92.5	93.1	93.1	0.74	0.83	0.87	84.4
55	75	250S/M	36.2	7.0	2.3	2.8	0.9161	14	31	430	70	1480	93.0	93.5	93.5	0.77	0.84	0.87	103
75	100	280S/M	49.4	6.7	1.9	2.5	1.57	23	51	545	72	1480	93.8	94.0	94.0	0.78	0.85	0.87	139
90	125	280S/M	59.2	6.6	1.9	2.5	1.80	19	42	627	72	1480	94.0	94.2	94.2	0.80	0.86	0.87	167
110	150	315S/M	72.1	7.9	2.4	2.9	2.59	20	44	805	72	1485	94.0	94.5	94.5	0.80	0.86	0.88	201
132	175	315S/M	86.6	7.2	2.3	2.7	2.95	18	40	1023	72	1485	94.0	94.7	94.7	0.77	0.85	0.87	243
150	200	315S/M	98.4	7.4	2.4	2.8	3.25	16	35	1030	72	1485	94.5	94.9	94.9	0.76	0.84	0.87	276
160	220	315S/M	105	7.6	2.4	2.9	3.56	15	33	1050	72	1485	94.5	94.9	94.9	0.76	0.84	0.87	294
185	250	315S/M	121	7.9	2.6	3	3.71	14	31	1060	77	1485	94.5	95.1	95.1	0.75	0.83	0.86	344
200	270	355M/L	131	6.3	1.9	2.4	5.94	39	86	1310	79	1490	94.5	95.1	95.1	0.77	0.84	0.86	372
220	300	355M/L	144	6.1	1.8	2.3	6.48	40	88	1350	79	1490	94.5	95.1	95.1	0.78	0.85	0.87	404
250	340	355M/L	163	6.6	2	2.4	7.19	31	68	1405	79	1490	94.5	95.1	95.1	0.77	0.84	0.87	459
260	350	355M/L	170	6.5	2.1	2.3	7.73	29	64	1468	79	1490	94.5	95.1	95.1	0.79	0.86	0.87	477
280	380	355M/L	183	7.4	2.4	2.7	8.05	22	48	1505	79	1490	94.5	95.1	95.1	0.74	0.82	0.86	520
300	400	355M/L*	196	5.6	1.7	2.1	8.59	30	66	1580	79	1490	94.5	95.1	95.1	0.81	0.86	0.87	551
315	430	355M/L	206	6.7	2	2.4	8.95	23	51	1643	79	1490	94.5	95.1	95.1	0.77	0.84	0.87	578
330	450	355M/L	216	6.8	2.3	2.4	9.84	23	51	1769	79	1490	94.5	95.1	95.1	0.79	0.85	0.87	606
High-Output Design																			
9.2	12.5	160M	6.12	5.7	2.1	2.4	0.0883	16	35	82.0	67	1465	88.0	89.3	89.3	0.72	0.81	0.85	18.4
37	50	200L	24.4	6.5	2.3	2.8	0.3588	12	26	229	69	1475	92.0	92.7	92.7	0.67	0.78	0.83	73.1
37	50	250S/M	24.4	7.7	2.4	3.1	0.7804	9	20	390	70	1480	92.0	92.7	92.7	0.71	0.81	0.86	70.5
75	100	250S/M	49.4	8.0	2.8	3.4	1.21	10	22	530	70	1480	93.5	94.0	94.0	0.68	0.79	0.84	144
110	150	280S/M	72.4	6.6	2	2.5	2.11	19	42	736	72	1480	94.0	94.5	94.5	0.80	0.86	0.87	203
185	250	355M/L	121	6.5	1.8	2.4	5.80	11	24	1294	79	1490	94.5	95.1	95.1	0.78	0.85	0.87	340
200	270	315S/M	131	8.6	2.9	3.3	3.71	43	95	1065	77	1485	94.5	95.1	95.1	0.73	0.82	0.86	372

Note: GB efficiency value based on GB18613-2012 standard, data measured on direct on line starting.

IE efficiency value based on IEC60034-2-1 standard, data measured on direct on line starting.

(*) Insulation Class "F", temperature rise as Delta T 105K.

(**) The motor frame with extended endshield.

W20 - Cast Iron Frame - 160 to 355 Frame- GB3 (IE2) Efficiency

Output		Frame	Full Load Torque (kgfm)	Locked Rotor Current I/In	Locked Rotor Torque Tl/Tn	Break-down Torque Tb/Tn	Inertia J (kgm ²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	380 V								Full load current In (A)
												Rated speed (rpm)	% of full load							
								Hot	Cold				Efficiency			Power Factor				
kW	HP												50	75	100	50	75	100		
6P - 1000 RPM - 50Hz																				
7.5	10	160M	7.57	6.6	2.5	2.9	0.1055	71	156	95.0	56	965	86.5	87.3	87.3	0.61	0.74	0.81	16.1	
9.2	12.5	160L	9.24	6.2	2.5	2.7	0.1266	10	22	115	56	970	88.0	88.3	88.3	0.60	0.73	0.80	19.8	
11	15	160L	11.1	7.0	2.4	2.7	0.1622	10	22	130	56	965	88.5	89.0	89.0	0.58	0.72	0.79	23.8	
15	20	180L	15.1	8.0	2.7	3	0.2705	5	11	170	56	970	89.5	90.0	90.0	0.72	0.81	0.87	29.1	
18.5	25	200L	18.5	6.3	2.3	2.5	0.3335	10	22	180	58	975	90.8	91.0	91.0	0.67	0.72	0.78	39.6	
22	30	200L	22.0	6.2	2.3	2.6	0.3868	10	22	210	58	975	91.0	91.2	91.2	0.65	0.75	0.82	44.7	
30	40	225S/M	29.7	7.0	2.3	2.6	0.8328	10	22	330	61	985	92.0	92.2	92.2	0.70	0.79	0.84	58.9	
37	50	250S/M	36.6	7.0	2.5	2.6	1.02	10	22	400	61	985	92.0	92.6	92.6	0.72	0.81	0.84	72.3	
45	60	280S/M	44.5	6.8	2.2	2.7	2.02	10	22	550	66	985	93.0	93.2	93.2	0.67	0.77	0.82	89.5	
55	75	280S/M	54.4	6.7	2.1	2.6	2.26	10	22	610	66	985	93.0	93.5	93.5	0.67	0.78	0.82	109	
75	100	315S/M	74.2	6.7	2.1	2.4	3.05	10	22	700	69	985	93.8	94.0	94.0	0.72	0.81	0.84	144	
90	125	315S/M	89.0	6.5	2.2	2.4	3.59	12	26	830	69	985	94.0	94.2	94.2	0.71	0.80	0.83	175	
110	150	315S/M	109	6.5	2.2	2.4	4.93	12	26	1000	69	985	94.1	94.6	94.6	0.69	0.79	0.84	210	
132	175	315S/M	131	6.6	2.2	2.5	5.48	12	26	1050	69	985	94.0	94.5	94.6	0.70	0.79	0.84	252	
150	200	355M/L	148	6.0	1.9	2.2	8.82	81	178	1460	73	990	93.5	95.0	95.3	0.65	0.75	0.80	299	
160	220	355M/L	157	6.0	1.9	2.1	9.28	76	167	1460	73	990	93.8	95.2	95.3	0.65	0.77	0.81	315	
185	250	355M/L	182	6.0	1.9	2.1	9.94	76	167	1530	73	990	94.2	95.2	95.3	0.65	0.75	0.80	369	
200	270	355M/L	197	6.1	2.2	2.3	12.1	28	62	1650	73	990	94.5	95.4	95.4	0.66	0.76	0.81	393	
220	300	355M/L	215	6.5	2	2.3	13.5	25	55	1800	73	995	94.5	95.4	95.4	0.64	0.75	0.80	438	
250	340	355M/L	246	6.1	1.9	2.1	14.3	64	141	1890	73	990	94.6	95.2	95.4	0.69	0.78	0.81	492	
260	350	355M/L	256	5.7	2	2.3	14.3	28	62	1830	73	990	94.6	95.2	95.4	0.66	0.76	0.81	511	
280	380	355M/L*	275	6.0	2.1	2.2	14.3	54	119	1890	73	990	94.2	95.3	95.4	0.68	0.77	0.80	557	
300	400	355M/L*	295	5.9	2.1	2.4	14.3	29	64	1920	73	990	93.8	95.0	95.5	0.65	0.75	0.80	597	
315	430	355M/L*	310	6.0	1.9	1.9	15.0	38	84	1950	73	990	94.2	95.4	95.5	0.69	0.78	0.81	619	
High-Output Design																				
5.5	7.5	160M	5.49	6.3	2.5	2.8	0.1191	18	40	106	56	975	87.0	87.0	87.5	0.59	0.72	0.79	12.1	
37	50	225S/M	36.6	7.0	2.5	2.6	1.02	10	22	400	61	985	92.0	92.6	92.6	0.72	0.81	0.84	72.3	
45	60	250S/M	44.5	7.9	2.8	2.9	1.30	14	31	530	61	985	92.8	93.0	93.0	0.69	0.79	0.83	88.6	
75	100	280S/M	74.2	6.7	2.1	2.4	3.05	10	22	700	69	985	93.8	94.0	94.0	0.72	0.81	0.84	144	
132	175	355M/L	130	6.1	1.9	2.2	8.78	90	198	1400	73	990	93.4	94.8	95.1	0.67	0.77	0.81	260	
8P - 750 RPM - 50Hz																				
4	5.5	160M	5.37	5.2	2.2	2.8	0.0985	12	26	90.0	51	725	82.0	84.5	84.5	0.44	0.57	0.66	10.9	
5.5	7.5	160M	7.34	5.6	2.5	2.8	0.1266	12	26	115	51	730	82.0	85.0	85.0	0.42	0.55	0.65	15.1	
7.5	10	160L	10.1	5.2	2	2.4	0.1555	15	33	140	51	725	84.0	86.5	86.5	0.52	0.64	0.71	18.6	
9.2	12.5	180M	12.4	7.0	2.2	2.5	0.2172	10	22	155	51	725	87.0	87.2	87.2	0.67	0.77	0.83	19.3	
11	15	180L	14.8	7.0	2.2	2.4	0.2993	9	20	183	51	725	87.5	88.0	88.4	0.68	0.78	0.83	22.8	
15	20	200L	20.0	5.0	2	2.2	0.4228	18	40	250	53	730	88.0	88.5	89.0	0.53	0.65	0.71	36.1	
18.5	25	225S/M	24.7	7.2	2.1	2.6	0.8340	18	40	340	56	730	90.5	91.5	91.9	0.69	0.79	0.83	36.8	
22	30	225S/M	29.2	7.5	2.2	3	0.9253	18	40	365	56	735	89.5	90.0	90.5	0.67	0.77	0.82	45.0	
30	40	250S/M	40.0	7.5	2.1	2.8	1.16	17	37	440	56	730	91.7	92.5	93.0	0.69	0.79	0.83	59.0	
37	50	280S/M	48.7	6.5	1.9	2.2	2.37	25	55	540	62	740	93.0	93.2	93.2	0.63	0.75	0.78	77.3	
45	60	280S/M	59.2	6.5	2	2.4	2.83	20	44	640	62	740	93.0	93.5	93.5	0.62	0.73	0.79	92.6	
55	75	315S/M	72.4	6.5	1.8	2.2	3.17	28	62	680	62	740	93.5	94.0	94.0	0.63	0.74	0.79	113	
75	100	315S/M	98.7	6.6	1.9	2.2	4.29	20	44	876	62	740	93.9	94.3	94.5	0.66	0.78	0.81	149	
90	125	315S/M	118	6.8	1.9	2.4	5.53	23	51	970	62	740	93.9	94.3	94.5	0.67	0.77	0.81	179	
110	150	355M/L	145	6.4	1.5	2.2	10.7	41	90	1430	70	740	93.5	94.7	94.7	0.62	0.73	0.79	223	
132	175	355M/L	173	6.5	1.6	2.3	12.9	47	103	1445	70	745	94.0	95.0	95.1	0.63	0.73	0.79	267	
160	220	355M/L	209	6.6	1.5	2.4	15.6	42	92	1590	70	745	94.0	94.2	94.2	0.60	0.72	0.78	331	
220	300	355M/L	290	6.8	1.6	2.2	19.9	35	77	1930	70	740	94.5	95.2	95.5	0.61	0.73	0.77	455	

Note: GB efficiency value based on GB18613-2012 standard, data measured on direct on line starting.

IE efficiency value based on IEC60034-2-1 standard, data measured on direct on line starting.

(*) Insulation Class "F", temperature rise as Delta T 105K.

(**) The motor frame with extended endshield.

W20 - Aluminum Frame - 80 to 132 Frame- GB2 (IE3) Efficiency

Output		Frame	Full Load Torque (kgfm)	Locked Rotor Current I/In	Locked Rotor Torque Tl/Tn	Break-down Torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	380 V							
								Rated speed (rpm)	% of full load						Full load current In (A)				
									Efficiency			Power Factor							
kW	HP							Hot	Cold				50	75	100	50	75	100	
2P - 3000 RPM - 50Hz																			
0.75	1	80	0.260	5.8	3.1	3.1	0.0007	29	64	11.4	59	2815	80.2	80.7	80.7	0.64	0.77	0.84	1.68
1.1	1.5	80	0.380	6.2	3.5	3.4	0.0009	26	57	14.0	59	2820	82.0	82.7	82.7	0.64	0.77	0.84	2.41
1.5	2	90S/L	0.507	7.3	3.2	3.6	0.0020	13	29	21.5	62	2880	83.6	84.2	84.2	0.62	0.75	0.82	3.30
2.2	3	90S/L	0.751	7.0	3.4	3.4	0.0025	10	22	25.5	62	2855	84.2	85.1	85.9	0.67	0.79	0.85	4.58
3	4	100L	1.01	8.4	3	3.8	0.0064	13	29	30.0	67	2905	85.6	87.1	87.1	0.72	0.83	0.88	5.95
4**	5.5	112M	1.34	7.7	2.5	3.5	0.0905	12	26	41.0	64	2905	86.1	87.4	88.1	0.69	0.80	0.86	8.02
5.5**	7.5	132S	1.82	7.9	2.4	3.4	0.0270	16	35	68.0	67	2940	87.9	89.2	89.2	0.75	0.84	0.89	10.5
7.5	10	132S	2.49	8.0	2.6	3.4	0.0252	17	37	73.0	67	2930	88.1	89.5	90.1	0.73	0.83	0.88	14.4
9.2	12.5	132M	3.06	7.8	2.6	3.3	0.0303	16	35	80.0	67	2925	89.5	90.5	90.7	0.74	0.84	0.88	17.5
High-Output Design																			
0.75	1	90S/L	0.255	6.2	2.4	2.9	0.0012	20	44	20.0	62	2865	78.9	80.7	80.7	0.62	0.75	0.82	1.72
1.1	1.5	90S/L	0.375	6.3	2.7	3	0.0014	19	42	21.0	62	2860	81.0	82.7	82.7	0.62	0.75	0.82	2.46
4	5.5	132S	1.33	7.9	2.4	3.5	0.0216	19	42	61.0	67	2940	85.9	87.9	88.1	0.72	0.82	0.87	7.93
11	15	132M	3.67	7.9	2.7	3.3	0.0303	9	20	84.0	67	2920	89.2	90.0	91.2	0.71	0.82	0.87	21.1
4P - 1500 RPM - 50Hz																			
0.55	0.75	80	0.376	6.0	2.6	3.0	0.0026	21	46	15.0	44	1425	79.7	80.8	80.8	0.62	0.75	0.83	1.25
0.75	1	80	0.516	6.0	2.7	2.8	0.0032	17	37	16.2	44	1415	80.2	81.4	82.5	0.67	0.79	0.86	1.61
1.1	1.5	90S/L	0.739	6.9	2.4	3.1	0.0055	16	35	22.0	49	1450	83.9	84.1	84.1	0.58	0.72	0.80	2.48
1.5	2	90S/L	1.01	7.4	2.9	3.6	0.0066	10	22	23.0	49	1450	83.1	85.0	85.3	0.59	0.72	0.80	3.34
2.2	3	100L	1.48	7.7	3.9	4.1	0.0097	18	40	36.0	53	1445	84.7	86.3	86.7	0.57	0.70	0.78	4.94
3**	4	100L	2.04	7.2	3.8	3.8	0.0112	19	42	45.0	53	1435	85.5	86.5	87.7	0.60	0.73	0.80	6.50
4	5.5	112M	2.70	6.3	2.2	2.9	0.0167	17	37	50.0	56	1445	87.8	88.4	88.6	0.58	0.71	0.79	8.68
5.5	7.5	132S	3.66	8.0	2.1	3.3	0.0528	14	31	69.0	56	1465	89.0	89.6	89.6	0.70	0.81	0.86	10.8
7.5	10	132M	5.00	7.9	2.2	3.4	0.0638	12	26	78.0	56	1460	90.0	90.4	90.4	0.68	0.79	0.85	14.8
High-Output Design																			
0.75	1	90S/L	0.502	7.0	2.3	3.2	0.0049	23	51	19.0	49	1455	82.0	82.5	82.5	0.58	0.71	0.79	1.75
1.5	2	100L	1.01	7.6	3	3.6	0.0105	17	37	30.0	53	1450	82.7	84.8	85.3	0.58	0.71	0.79	3.38
2.2	3	112M	1.46	7.3	2	3.3	0.0182	14	31	41.0	56	1465	86.2	86.7	86.7	0.57	0.70	0.78	4.94
3**	4	112M	1.99	7.2	2.1	3.2	0.0195	14	31	46.0	56	1465	86.6	87.7	87.7	0.58	0.71	0.79	6.58
6P - 1000 RPM - 50Hz																			
0.25	0.33	80	0.260	4.1	1.8	2.2	0.0019	33	73	12.0	43	935	67.2	68.6	68.6	0.52	0.66	0.76	0.729
0.37	0.5	80	0.390	4.5	1.9	2.1	0.0026	25	55	13.9	43	925	66.0	69.5	73.5	0.51	0.65	0.75	1.02
0.55**	0.75	80	0.567	5.1	2.9	3.1	0.0037	20	44	18.0	43	945	70.5	75.2	77.2	0.45	0.58	0.69	1.57
0.75	1	90S/L	0.777	5.2	2.5	2.8	0.0066	31	68	22.0	45	940	76.5	79.0	79.0	0.49	0.62	0.71	2.03
1.1	1.5	100L	1.13	4.9	2	2.4	0.0110	32	70	30.0	44	945	80.5	81.0	81.0	0.51	0.65	0.73	2.83
1.5	2	100L	1.54	5.5	2.3	2.8	0.0143	31	68	32.0	44	950	81.5	82.5	82.5	0.49	0.62	0.71	3.89
2.2	3	112M	2.23	6.0	2.5	2.6	0.0257	26	57	45.0	48	960	83.0	84.5	84.5	0.53	0.64	0.72	5.49
3	4	132S	3.01	6.0	1.9	2.5	0.0568	28	62	72.0	52	970	85.0	85.8	85.8	0.52	0.65	0.73	7.28
4	5.5	132M	4.06	6.5	2.2	2.5	0.0568	30	66	74.0	52	960	86.0	86.8	86.8	0.53	0.66	0.74	9.46
5.5**	7.5	132M	5.52	7.3	2.1	2.5	0.0795	26	57	86.0	52	970	86.0	87.0	88.0	0.50	0.64	0.72	13.2
High-Output Design																			
1.1	1.5	112M	1.12	5.9	2.3	2.8	0.0220	28	62	39.0	48	955	84.0	85.0	85.0	0.52	0.64	0.72	2.73
1.5	2	112M	1.52	6.0	2.1	2.8	0.0257	28	62	42.0	48	960	84.5	85.5	85.5	0.51	0.63	0.71	3.75
2.2	3	132S	2.21	5.7	1.8	2.7	0.0492	30	66	65.0	52	970	86.0	87.5	87.5	0.52	0.64	0.72	5.31
8P - 750 RPM - 50Hz																			
0.18	0.25	80	0.258	3.3	2.0	2.2	0.0029	30	66	15.0	42	680	51.0	57.0	58.7	0.45	0.55	0.65	0.717
0.25	0.33	80	0.350	3.5	2	2.2	0.0032	30	66	15.5	42	695	53.0	60.0	64.1	0.42	0.52	0.63	0.941
0.37	0.5	90S/L	0.522	3.7	2.1	2.4	0.0055	30	66	19.0	43	690	61.0	66.0	69.3	0.41	0.53	0.62	1.31
0.55	0.75	90S/L	0.782	3.6	1.8	2.1	0.0066	29	64	23.0	43	685	63.0	72.5	73.0	0.44	0.57	0.67	1.71
0.75	1	100L	1.03	4.6	1.9	2.3	0.0127	30	66	30.5	50	710	72.5	75.5	75.5	0.41	0.53	0.62	2.43
1.1	1.5	100L	1.51	4.6	1.9	2	0.0143	30	66	33.0	50	710	73.0	76.0	77.7	0.41	0.53	0.62	3.47
1.5	2	112M	2.07	5.0	2.5	2.8	0.0238	28	62	43.0	46	705	79.0	80.5	80.5	0.45	0.59	0.68	4.16
2.2	3	132S	3.02	6.2	2.3	2.5	0.0690	27	59	69.0	48	710	82.0	82.6	82.6	0.51	0.65	0.72	5.62
3	4	132M	4.12	6.4	2.4	2.6	0.0838	21	46	75.0	48	710	82.5	83.5	83.5	0.51	0.64	0.72	7.58

Note: GB efficiency value based on GB18613-2012 standard, data measured on direct on line starting.

IE efficiency value based on IEC60034-2-1 standard, data measured on direct on line starting.

(*) Insulation Class "F", temperature rise as Delta T 105K.

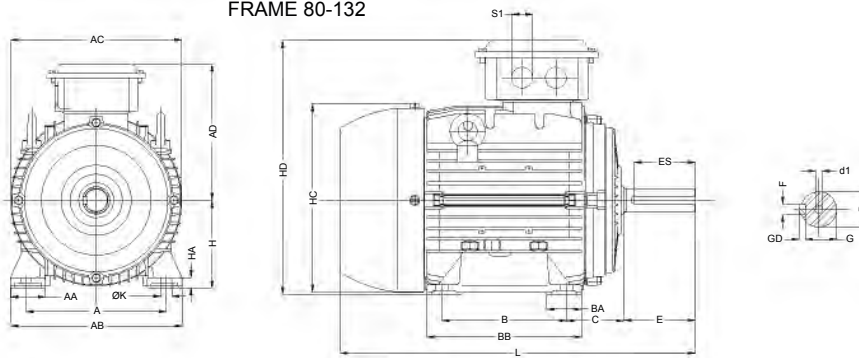
(**) The motor frame with extended endshield.

W20 - Cast Iron Frame - 160 to 355 Frame- GB2 (IE3) Efficiency

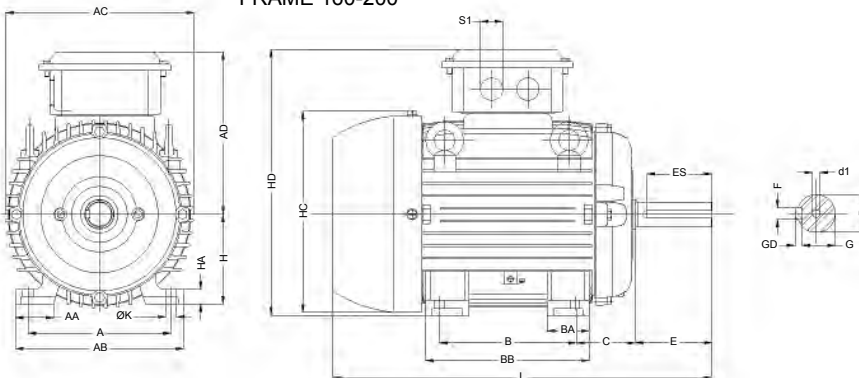
Output		Frame	Full Load Torque (kgfm)	Locked Rotor Current I/In	Locked Rotor Torque Tl/Tn	Break-down Torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	380 V								Full load current In (A)
								Hot	Cold			% of full load								
												Efficiency			Power Factor					
kW	HP											Rated speed (rpm)	50	75	100	50	75	100		
2P - 3000 RPM - 50Hz																				
11**	15	160M	3.63	8.0	2.2	3.3	0.0618	13	29	110	70	2955	90.5	91.2	91.2	0.75	0.84	0.88	20.8	
15	20	160M	4.96	7.8	2.2	3	0.0565	14	31	115	70	2945	91.6	91.9	91.9	0.77	0.85	0.89	27.9	
18.5**	25	160L	6.12	8.0	2.2	3	0.0763	7	15	136	70	2945	90.8	91.4	92.4	0.79	0.86	0.89	34.2	
22	30	180M	7.26	7.6	2.3	3.3	0.1138	18	40	180	70	2950	92.5	92.7	92.7	0.77	0.85	0.88	41.0	
30	40	200L	9.85	6.5	2.3	2.6	0.2214	30	66	245	74	2965	93.0	93.3	93.3	0.79	0.86	0.89	54.9	
37	50	200L	12.2	6.3	2.3	2.6	0.1958	39	86	260	74	2960	92.7	93.6	93.7	0.75	0.83	0.86	69.8	
45	60	225S/M	14.8	7.9	2.5	3.2	0.4448	29	64	400	82	2965	93.4	94.0	94.0	0.83	0.89	0.91	79.9	
55	75	250S/M	18.1	7.4	2.2	3	0.3736	19	42	450	82	2960	93.8	94.3	94.3	0.80	0.87	0.90	98.5	
75	100	280S/M	24.6	6.4	1.6	2.7	0.9386	45	99	680	83	2975	93.0	94.2	94.7	0.81	0.87	0.89	135	
90	125	280S/M	29.5	6.2	1.6	2.6	1.03	40	88	750	83	2975	93.7	94.6	95.0	0.83	0.88	0.90	160	
110	150	315S/M	36.0	7.8	2	3.3	1.23	25	55	800	83	2980	95.0	95.2	95.2	0.75	0.84	0.88	199	
132	175	315S/M	43.2	7.3	1.9	3	1.40	22	48	850	83	2975	95.0	95.4	95.4	0.80	0.87	0.89	236	
160	220	315S/M	52.3	8.2	2.3	3.2	1.97	19	42	950	83	2980	95.0	95.6	95.6	0.81	0.88	0.90	283	
200	270	355M/L	65.4	7.2	2	2.6	4.63	42	92	1000	81	2980	95.7	95.8	95.8	0.89	0.92	0.93	341	
High-Output Design																				
110	150	280S/M	36.0	7.5	1.9	3.1	1.33	29	64	800	83	2980	94.4	95.2	95.2	0.81	0.87	0.90	195	
200	270	315S/M*	65.5	7.8	2.1	2.9	2.03	15	33	1000	83	2975	95.1	95.7	95.8	0.84	0.89	0.91	349	
4P - 1500 RPM - 50Hz																				
11	15	160M	7.26	6.7	2.7	3.2	0.1360	17	37	120	62	1475	90.0	91.1	91.4	0.61	0.74	0.80	22.9	
15	20	160L	9.97	5.9	2.5	2.8	0.1214	19	42	130	62	1465	91.3	91.9	92.1	0.65	0.76	0.82	30.2	
18.5	25	180M	12.3	6.9	2.7	3.1	0.2088	22	48	175	64	1470	92.0	92.6	92.6	0.68	0.79	0.84	36.1	
22	30	180L	14.6	6.9	2.7	3	0.2098	16	35	225	64	1470	92.5	92.9	93.0	0.71	0.81	0.85	42.3	
30	40	200L	19.7	7.0	2.5	3	0.3342	17	37	280	67	1480	92.0	92.9	93.6	0.68	0.79	0.84	58.0	
37	50	225S/M	24.3	8.0	2.5	3.2	0.9133	11	24	380	70	1485	93.1	93.6	93.9	0.70	0.80	0.85	70.4	
45	60	225S/M	29.5	8.0	2.5	3.1	0.7804	9	20	400	70	1485	93.8	94.0	94.2	0.74	0.83	0.87	83.4	
55	75	250S/M	36.1	7.2	2.4	3	0.9413	15	33	470	70	1485	94.0	94.6	94.6	0.71	0.81	0.85	104	
75	100	280S/M	49.2	7.7	2.2	3	1.79	22	48	660	72	1485	94.5	95.0	95.0	0.73	0.82	0.85	141	
90	125	280S/M	59.0	7.8	2.3	3	2.10	18	40	800	72	1485	94.8	95.2	95.2	0.74	0.83	0.86	167	
110	150	315S/M	72.1	7.5	2.3	2.9	2.71	20	44	860	77	1485	95.1	95.4	95.4	0.76	0.84	0.87	201	
132	175	315S/M	86.6	7.6	2.4	2.9	3.09	17	37	920	77	1485	95.4	95.6	95.6	0.75	0.83	0.86	244	
160	220	315S/M	105	7.6	2.5	2.9	3.40	17	37	990	77	1485	95.4	95.8	95.8	0.76	0.84	0.87	292	
200	270	355M/L	131	7.6	2.5	2.9	6.62	26	57	1250	79	1490	95.2	96.0	96.0	0.71	0.80	0.84	377	
250	340	355M/L	163	7.3	2.2	2.7	7.70	28	62	1380	79	1490	95.7	96.0	96.0	0.72	0.81	0.85	465	
300	400	355M/L	196	7.0	2.1	2.6	8.93	25	55	1440	79	1490	95.8	96.0	96.0	0.75	0.83	0.86	552	
315	430	355M/L	206	7.4	2.5	2.6	9.47	20	44	1560	79	1490	95.8	96.0	96.0	0.75	0.83	0.86	580	
High-Output Design																				
110	150	280S/M	72.1	7.7	2.4	2.9	2.71	20	44	860	72	1485	95.0	95.4	95.4	0.76	0.84	0.87	201	
200	270	315S/M*	131	7.9	2.6	3	3.48	10	22	1250	77	1485	95.3	95.6	96.0	0.75	0.83	0.86	368	
6P - 1000 RPM - 50Hz																				
7.5	10	160M	7.53	6.6	2.5	2.9	0.1614	19	42	106	56	970	86.0	88.5	89.1	0.61	0.74	0.81	15.8	
11	15	160L	11.0	7.0	2.8	3	0.1891	13	29	136	56	970	89.0	90.0	90.3	0.60	0.73	0.80	23.1	
15	20	180L	15.0	7.7	2.6	3.2	0.2975	10	22	193	56	975	90.5	91.0	91.2	0.65	0.78	0.84	29.7	
18.5	25	200L	18.5	6.3	2.3	2.5	0.3861	17	37	219	58	975	90.5	91.8	92.0	0.65	0.76	0.82	37.3	
22	30	200L	22.0	6.2	2.3	2.6	0.4388	15	33	228	58	975	90.4	92.0	92.2	0.65	0.75	0.82	44.2	
30	40	225S/M	29.7	7.0	2.6	2.6	1.06	21	46	366	61	985	91.0	92.2	93.0	0.73	0.81	0.85	57.7	
37	50	250S/M	36.8	7.0	2.5	2.6	1.29	20	44	450	61	980	91.0	93.2	93.5	0.72	0.81	0.84	71.6	
45	60	280S/M	44.3	6.8	2.1	2.8	2.36	27	59	610	66	990	93.2	93.7	93.7	0.67	0.77	0.82	89.0	
55	75	280S/M	54.1	7.0	2.5	3.2	2.81	21	46	655	66	990	93.5	94.0	94.2	0.64	0.75	0.81	110	
75	100	315S/M	73.8	7.7	2.9	3.5	3.59	15	33	725	69	990	93.7	94.3	94.6	0.62	0.73	0.81	149	
90	125	315S/M	88.5	7.8	2.8	3.3	5.05	16	35	810	69	990	94.3	94.8	95.0	0.66	0.77	0.82	176	
110	150	315S/M	109	6.5	2.2	2.4	5.14	18	40	980	69	985	95.0	95.1	95.1	0.69	0.79	0.84	209	
110	150	355M/L	108	6.7	2.2	3	9.28	40	88	1460	69	995	93.7	95.0	95.2	0.59	0.71	0.78	225	
132	175	355M/L	129	6.2	2	2.7	10.4	40	88	1600	73	995	94.2	95.2	95.5	0.63	0.74	0.80	263	
150	200	355M/L	147	6.3	2.1	2.5	11.1	27	59	1650	73	995	94.4	95.3	95.7	0.66	0.76	0.81	294	
160	220	355M/L	157	6.2	2	2.6	11.1	60	132	1650	73	995	94.4	95.3	95.7	0.63	0.74	0.80	318	
185	250	355M/L	181	6.3	2.2	2.5	11.6	34	75	1700	73	995	94.7	95.6	95.8	0.66	0.76	0.81	362	
220	300	355M/L	215	6.1	2.1	2.4	13.5	31	68	1795	73	995	95.0	95.6	95.8	0.67	0.77	0.81	431	
250	340	355M/L	246	6.1	2.1	2.6	14.4	60	132	1890	73	990	95.0	95.7	95.8	0.64	0.74	0.80	496	
High-Output Design																				
75	100	280S/M	73.8	7.7	2.9	3.5	3.59	15	33	725	69	990	93.7	94.3	94.6	0.62	0.73	0.81	149	
8P - 750 RPM - 50Hz																				
4	5.5	160M	5.37	4.8	1.9	2.6	0.1264	27	59	110	51	725	83.0	86.2	86.6	0.51	0.64	0.72	9.75	
5.5	7.5	160M	7.39	4.7	1.8	2.5	0.1614	22	48	130	51	725	85.0	87.7	87.7	0.53	0.66	0.74	12.9	
7.5	10	160L	10.1	5.2	2	2.4	0.1838	19	42	145	51	725	87.5	88.9	88.9	0.54	0.66	0.73	17.6	
11	15	180L	14.7	8.0	2.6	2.8	0.3129	12	26	183	51	730	90.0	90.3	90.3	0.62	0.73	0.80	23.1	
15	20	200L	19.9	5.0	2	3.2	0.4932	28	62	300	53	735	89.5	90.5	90.9	0.53	0.65	0.71	35.3	
22	30	225S/M	29.2	8.5	2.1	3	1.20	164	361	365	56	735	91.5	92.5	92.6	0.65	0.76	0.82	44.0	
30	40	250S/M	39.8	8.7	2.5	3.2	1.25	17	37	440	56	735	90.3	91.0	91.5	0.62	0.74	0.81	61.5	
37	50	280S/M	48.7	6.5	1.9	2.2	2.59	32	70	590	59	740	91.6	92.0	92.5	0.63	0.74	0.80	76.0	

5. Mechanical Data

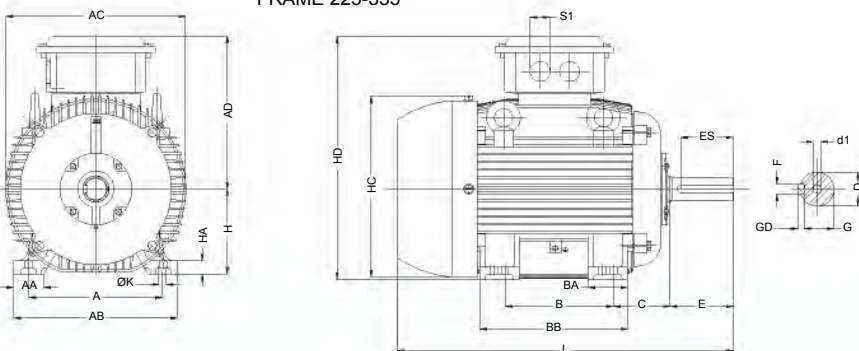
FRAME 80-132



FRAME 160-200



FRAME 225-355



Note:

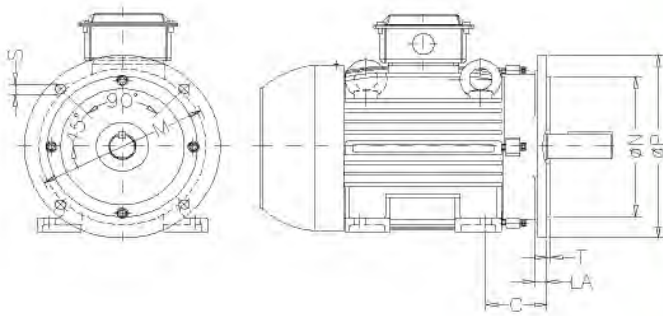
--(*) Shaft dimensions for all II poles

motors, only for direct coupling;

-- All dimensions are in millimeters;

-- The average values are subject to change without prior notice. To obtain guaranteed value, please contact with nearest WEG sales office.

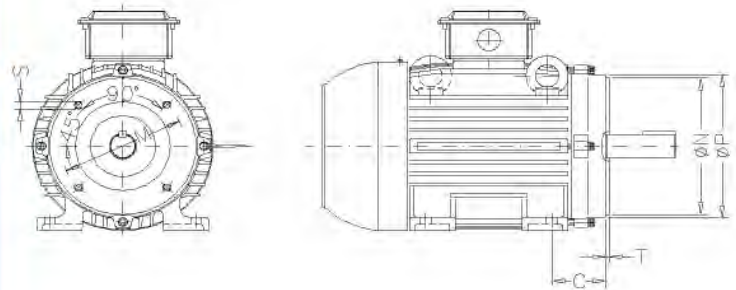
Frame	A	AA	AB	AC	AD	B	BA	BB	C	Shaft						H	HA	HC	HD	K	L	S1	d1	Bearing	
										D	E	ES	F	G	GD									DE	NDE
80	125	32	149	159	136	100	28	125	50	19j6	40	28	6	15.5	6	80	13	157	216	10	286/*325	Φ25.5	DM6	6204-ZZ	6203-ZZ
90S/L	140	35	164	179	155	100/125	24	146	56	24j6	50	36	20	20	20	90	15	177	247		329/*360		DM8	6205-ZZ	6204-ZZ
100L	160	40	188	199	165	140	29	163	63	28j6	60	45	8	24	7	100	16	198	265	12	376/*420	2XΦ30	DM10	6206-ZZ	6205-ZZ
112M	190	46	220	222	184		32	170	70							112	18.5	235	296		393/*425			6307-ZZ	6206-ZZ
132S	216	44	248	270	212	178	33	210	89	38k6	80	63	10	33	8	132	20	274	344	14.5	490/*520	2XΦ36.5	DM12	6308-ZZ	6207-ZZ
132M		51														160	22	317	415		598/*615			6309-C3	6209-ZZ-C3
160M	254	64	308	312	255	254	65	254	108	42k6	110	80	12	37	8	180	28	360	455	18.5	642/*660	2XΦ48	DM16	6311-C3	6211-ZZ-C3
160L																200	30	402	500		664			6312-C3	6212-ZZ-C3
180M	279	80	350	358	275	279	75	322	121	48k6	140	125	14	42.5	9	225	34	466	598	24	767	2XΦ64.5	DM20	6314-C3	6314-C3
180L																250	42	491	623		702			6316-C3	6316-C3
200L	318	82	385	396	305	305	85	370	133	55m6	170	160	16	49	10	280	50	613	812	28	817	2XΦ72	DM24	6319-C3	6319-C3
225S/M	356	80	436	476	374	286	105	391	149	55m6						315	52	613	812		847			6322-C3	6319-C3
250S/M	406	100	506			311	138	449	168	60m6	210	200	28	90	16	355	75	725	1040	28	923			6322-C3	6319-C3
280S/M	457	100	557	600	468	349	142	510	190	65m6						355	50	725	1040		1036			6322-C3	6319-C3
315S/M	508	120	628			368	152	558	216	75m6	210	200	28	90	16	355	50	725	1040	28	1126			6322-C3	6319-C3
355M/L	610	140	750	816	685	457	200	760	254	100m6						355	50	725	1040		1156			6322-C3	6319-C3
						560															1396				
						630															1466				



Frame	FF Flange Dimension									Qty of holes	
	Flange	C	LA	M	N	P	T	S	a		
80	FF-165	50	10	165	130	200	3.5	12	45°	4	
90S/L		56									
100L	FF-215	63	11	215	180	250	4	15			
112M		70									
132S/M	FF-265	89	12	265	230	300	5	19			
160M/L	FF-300	108	18	300	250	350					
180M/L		121									
200M/L	FF-350	133							350	300	400
225S/M	FF-400	149							400	350	450
250S/M	FF-500	168		500	450	550					
280S/M		190									
315S/M	FF-600	216	22	600	550	660	6	24	22°30'	8	
355M/L	FF-740	254		740	680	800					

Frame	C-DIN Flange Dimension							Qty of holes
	Flange	C	M	N	P	S	T	
80	C-120	50	100	80	120	M6	3	4
90S/L	C-140	56	115	95	140	M8		
100L	C-160	63	130	110	160		3.5	
112M		70						
132S/M	C-200	89	165	130	200	M10		

Frame	C Flange Dimension							Qty of holes
	Flange	C	M	N	P	S	T	
80	FC-95	50	95.2	76.2	143	1/4"20	4	4
90S/L	FC-149	56	149.2	114.3	165	UNC 3/8"16		
100L		63				UNC 1/2"13		
112M	70							
132S/M	FC-184	89	184.2	215.9	225			
160M/L		108						
180M/L	FC-228	121	228.6	266.7	280	UNC 5/8"11	6.3	
200M/L		133						
225S/M	FC-279	149	279.4	317.5	395			UNC 5/8"11
250S/M	FC-355	168	355.6	406.4	455			
280S/M		190						
315S/M	FC-368	216	368.3	419.1				
355M/L		254						



Blower Motor Main technical Data									
Model	Power (V/Hz)	Input (W)	Input Current(A)	Speed (r/min)	Air Flow (m³/h)	Air Pressure (pa)	Noise (dB)	Diam. Fan Blade (mm)	Note
G-90	380/50	40	0.11	2850	91	80	65	170	Polyamide Fan
G-100	380/50	55	0.16	2850	142	80	67	185	Polyamide Fan
G-112	380/50	65	0.16	2800	229	80	67	210	Polyamide Fan
G-132	380/50	75	0.33	1450	337	35	69	250	Polyamide Fan
G-160	380/50	55	0.15	2850	540	80	72	250	Polyamide Fan
G-180	380/50	105	0.35	1400	686	55	72	335	Polyamide Fan
G-200	380/50	85	0.25	1400	1679	65	72	355	Polyamide Fan
G-90	220/50/3μF	40	0.18	2900	91	80	65	170	Polyamide Fan
G-100	220/50/3μF	42	0.19	2900	142	80	67	185	Polyamide Fan
G-112	220/50/3μF	42	0.19	2900	229	80	67	210	Polyamide Fan
G-132	220/50/5μF	55	0.38	1450	337	35	69	250	Polyamide Fan
G-160	220/50/6μF	80	0.35	2900	540	80	72	250	Polyamide Fan
G-180	220/50/5μF	75	0.40	1400	686	55	72	335	Polyamide Fan
G-200	220/50/6μF	90	0.50	1400	1679	65	72	355	Polyamide Fan



Global presence is essential, as much as understanding your needs.

Global Presence

With approximately 30.000 employees worldwide, WEG is one of the largest electric motors, electronic equipments and systems manufacturers. We are constantly expanding our portfolio of products and services with expertise and market knowledge. We create integrated and customized solutions ranging from innovative products to complete after-sales service.

WEG's know-how guarantees our **W20 three-phase induction motor** is the right choice for your application and business, assuring safety, efficiency and reliability.



Availability is to have a global support network



Partnership is to create solutions that suits your needs



Competitive edge is to unite technology and innovation





SERVICE

www.weg.net
www.weg.net



From our wide Services portfolio, stands out the list of interventions on products from WEG activity areas: Electric Motors, Energy and Automation, being the most common:

Inspection, Tests and Technical Analyses

From all the inspections, tests and technical analyses we have capacity to offer, we emphasize the following:

- Production and expedition of spare parts to all over the world;
- Application diagnosis on site or in our factory;
- Technical advise on best, reliable and efficient solutions on energy saving.



	Products		Procedure	
	Automation	Motor	Internal	External
General Repair and overhaul	X	X	X	X
Product repair that may include the replacement of the components by original parts	X	X	X	X
Commissioning and start up	X	X		X
Repair of electrical machines (Ex and Safety)		X	X	X
Inspection and/or replacement of sleeve bearing or bearings		X	X	X
Repair of the sleeve bearings shell		X	X	X
High, Medium and Low Voltage rewinding		X	X	
Stator or rotor core replacement		X	X	
Brushes and brushes holder replacement		X	X	X
Shaft complete replacement or repair of shafts with grinding finishing of complete rotor		X	X	
Dynamic balancing of rotor (Maximum speed 1600 rpm 20T)		X	X	
Field dynamic balancing		X		X
Alignment service		X		X
Painting (standard and special plan)		X	X	X
Inspection, tests and technical analysis	X	X	X	X
Energy Efficiency Study	X	X		X
Training of product maintenance	X	X		X

Automation:

- Analysis of application improvements and technical assessment to the client, helping on the choice of the most appropriate equipment, targeting the application/optimizing installation efficiency
- Manufacturing, Installation, Modification, Start-Up and Maintenance of Electrical Panels
- Support on the settings parametrization of Variable Speed Drives and Soft Starters
- Commissioning and Start-Up of applications with Variable Speed Drives
- WEG Products Training



Electric Motors:

- Commissioning and Start-Up of applications with electric motors
- Alignment applications with electric motors
- Vibration analysis and failures diagnosis;
- Dimensional check of Electric Motors and Components/Spare Parts
- Electric Motors maintenance
- Electric Motors Mechanical and Electrical refurbishment:
 - Replacement of bearings / sleeve bearings
 - Recovery of sleeve bearings
 - Rewinding of Electric Motors (stator/rotor) - in Low, Medium and High Voltage (up to 11kV)
 - Recover / Refurbishment / replacement of spare parts
 - Replacement of rotor shafts
 - Repair and replacement of accessories, temperature sensors and anti-condensation heaters and other auxiliaries
- Balancing in factory up to 1600 rpm (20T, Ø Max. 4640 mm)
- Dynamic balancing on site
- Electric Motors modification to new operating conditions (IP protection, cooling system, auxiliaries mounting form, terminal boxes, external loads, etc)
- Painting and finishing recovery
- Customer training on electric motors
- Repair electric machines (Ex and Safety)
- Energy analysis and efficiency of electric motors



CUSTOMER SERVICE DEPARTMENT

128#, Xinkai South Road, Nantong Economic & Technological Development Area, Nantong, Jiangsu, China
Phone: +86 513 8592 0153 Fax: +86 513 8592 3262 Email: service-cn@weg.net

WEG Worldwide Operations

ARGENTINA

WEG EQUIPAMIENTOS
ELECTRICOS
San Francisco - Cordoba
Phone: +54 11 3564 421 484
info-ar@weg.net
www.weg.net/ar

WEG PINTURAS - Pulverlux
Buenos Aires
Phone: +54 11 4299 8000
tintas@weg.net

AUSTRALIA

WEG AUSTRALIA
Victoria
Phone: +61 3 9765 4600
info-au@weg.net
www.weg.net/au

AUSTRIA

WATT DRIVE - WEG Group
Markt Piesting - Vienna
Phone: +43 2633 404 0
watt@wattdrive.com
www.wattdrive.com

BELGIUM

WEG BENELUX
Nivelles - Belgium
Phone: +32 67 88 84 20
info-be@weg.net
www.weg.net/be

BRAZIL

WEG EQUIPAMENTOS ELÉTRICOS
Jaraguá do Sul - Santa Catarina
Phone: +55 47 3276-4002
info-br@weg.net
www.weg.net/br

CHILE

WEG CHILE
Santiago
Phone: +56 2 784 8900
info-cl@weg.net
www.weg.net/cl

CHINA

WEG NANTONG
Nantong - Jiangsu
Phone: +86 0513 8598 9333
info-cn@weg.net
www.weg.net/cn

COLOMBIA

WEG COLOMBIA
Bogotá
Phone: +57 1 416 0166
info-co@weg.net
www.weg.net/co

FRANCE

WEG FRANCE
Saint Quentin Fallavier - Lyon
Phone: +33 4 74 99 11 35
info-fr@weg.net
www.weg.net/fr

GERMANY

WEG GERMANY
Kerpen - North Rhine Westphalia
Phone: +49 2237 9291 0
info-de@weg.net
www.weg.net/de

GHANA

ZEST ELECTRIC GHANA
WEG Group
Accra
Phone: +233 30 27 664 90
info@zestghana.com.gh
www.zestghana.com.gh

INDIA

WEG ELECTRIC INDIA
Bangalore - Karnataka
Phone: +91 80 4128 2007
info-in@weg.net
www.weg.net/in

WEG INDUSTRIES INDIA
Hosur - Tamil Nadu
Phone: +91 4344 301 501
info-in@weg.net
www.weg.net/in

ITALY

WEG ITALIA
Cinisello Balsamo - Milano
Phone: +39 02 6129 3535
info-it@weg.net
www.weg.net/it

JAPAN

WEG ELECTRIC MOTORS
JAPAN
Yokohama City - Kanagawa
Phone: +81 45 550 3030
info-jp@weg.net
www.weg.net/jp

MALAYSIA

WSEA - WEG South East Asia
Shah Alam, Selangor
Phone: +603 7859 1626
info-wsea@weg.net
www.weg.net/my

MEXICO

WEG MEXICO
Huehuetoca
Phone: +52 55 5321 4231
info-mx@weg.net
www.weg.net/mx

VOLTRAN - WEG Group
Tizayuca - Hidalgo
Phone: +52 77 5350 9354
www.voltran.com.mx

NETHERLANDS

WEG NETHERLANDS
Oldenzaal - Overijssel
Phone: +31 541 571 080
info-nl@weg.net
www.weg.net/nl

PERU

WEG PERU
Lima
Phone: +51 1 472 3204
info-pe@weg.net
www.weg.net/pe

PORTUGAL

WEG EURO
Maia - Porto
Phone: +351 22 9477705
info-pt@weg.net
www.weg.net/pt

RUSSIA and CIS

WEG ELECTRIC CIS
Saint Petersburg
Phone: +7 812 363 2172
info-ru@weg.net
www.weg.net/ru

SOUTH AFRICA

ZEST ELECTRIC MOTORS
WEG Group
Johannesburg
Phone: +27 11 723 6000
info@zest.co.za
www.zest.co.za

SPAIN

WEG IBERIA
Madrid
Phone: +34 91 655 30 08
info-es@weg.net
www.weg.net/es

SINGAPORE

WEG SINGAPORE
Singapore
Phone: +65 68589081
info-sg@weg.net
www.weg.net/sg

SCANDINAVIA

WEG SCANDINAVIA
Kungsbacka - Sweden
Phone: +46 300 73 400
info-se@weg.net
www.weg.net/se

UK

WEG (UK) Ltd.
Redditch - Worcestershire
Phone: +44 1527 513 800
info-uk@weg.net
www.weg.net/uk

UNITED ARAB EMIRATES

WEG MIDDLE EAST
Dubai
Phone: +971 4 813 0800
info-ae@weg.net
www.weg.net/ae

USA

WEG ELECTRIC
Duluth - Georgia
Phone: +1 678 249 2000
info-us@weg.net
www.weg.net/us

ELECTRIC MACHINERY
WEG Group
Minneapolis - Minnesota
Phone: +1 612 378 8000
www.electricmachinery.com

VENEZUELA

WEG INDUSTRIAS VENEZUELA
Valencia - Carabobo
Phone: +58 241 821 0582
info-ve@weg.net
www.weg.net/ve

For those countries where there is not a WEG own operation, find our local distributor at www.weg.net.



WEG (Nantong) Electric Motor Mfg. CO., Ltd
#128, Xinkai South Road, NETDA,
Nantong - Jiang Su - China
Phone: +86 513 8598 9333
info-cn@weg.net
www.weg.net

