

Industrial Motors

Commercial &
Appliance Motors

Automation &
Systems

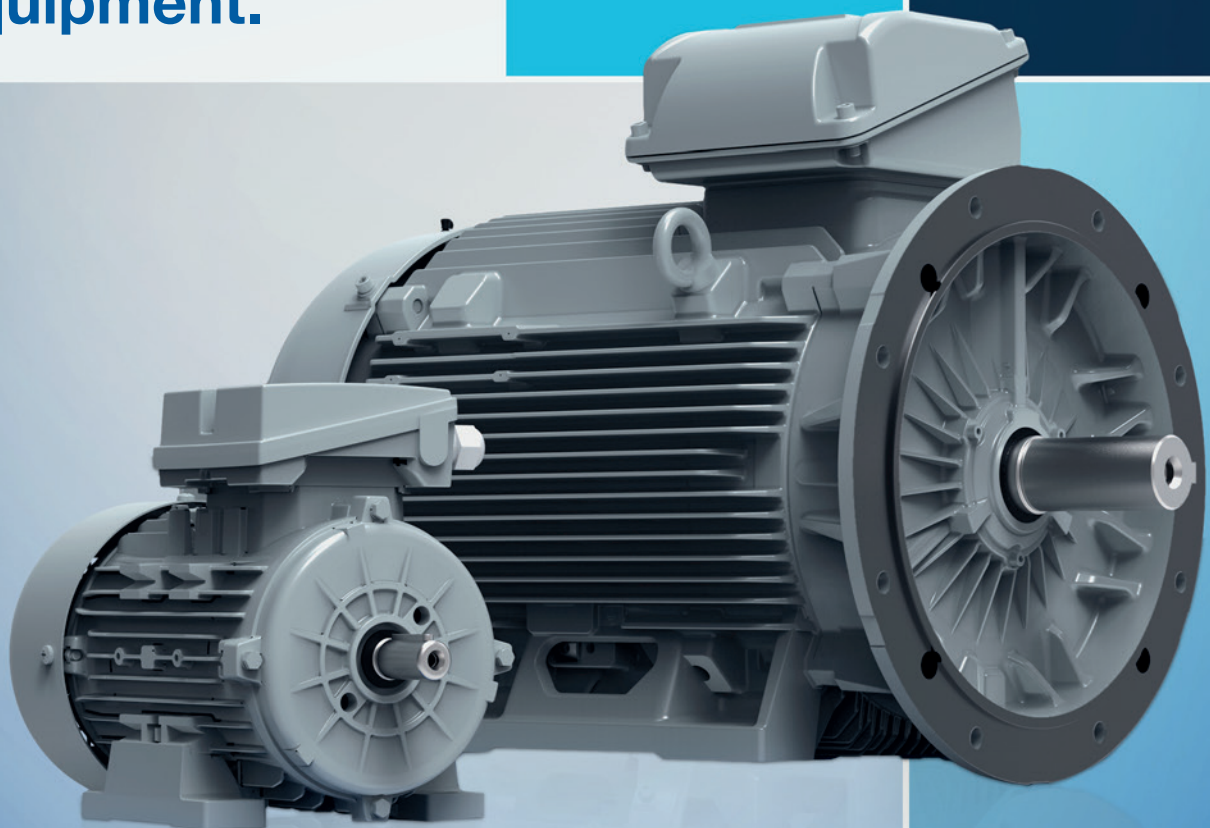
Energy

Transmission &
Distribution

Coatings

W20 MARINE

**The smart choice
for marine
equipment.**



Driving efficiency and sustainability





S U M M A R Y

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W20 Marine

The smart choice for marine equipment.

WEG is already a globally recognized supplier of electric motors for a wide range of applications in the marine industry. Now we are completing our portfolio by offering yet another option, with the same high level of excellence.

Designed for **non-essential auxiliary equipment in enclosed spaces**, the **W20 Marine** offers a flexible electrical solution, supported by the security of a worldwide network to keep your operations running, whenever you need it and wherever you are.



Multi-voltage



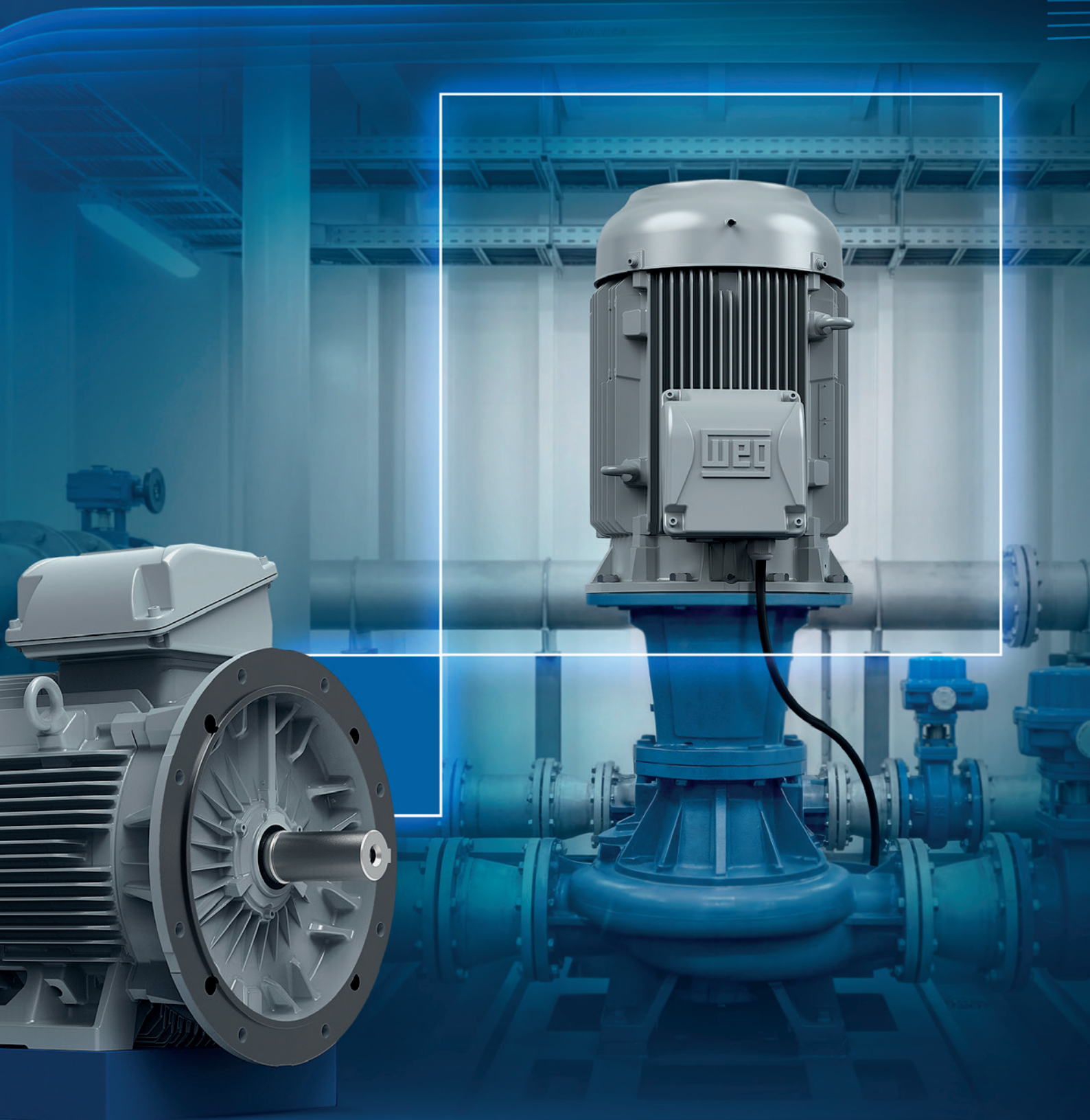
CE marking
certification



PTC thermistor as
standard from frame
size 63 to 355



SUPPLIED WITH **WORK CERTIFICATE** IN ACCORDANCE WITH IACS RULES



Driving efficiency and sustainability



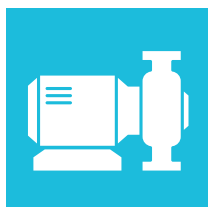
High reliability for below main deck applications

The W20 Marine brings all the reliability of the WEG brand, combined with the technical support of a globally consolidated network, ready to keep your operations running whenever and wherever you need it, ensuring operational safety and peace of mind throughout the entire service life of the equipment.

Typical applications



HVAC systems
(heating, ventilation
and air
conditioning)



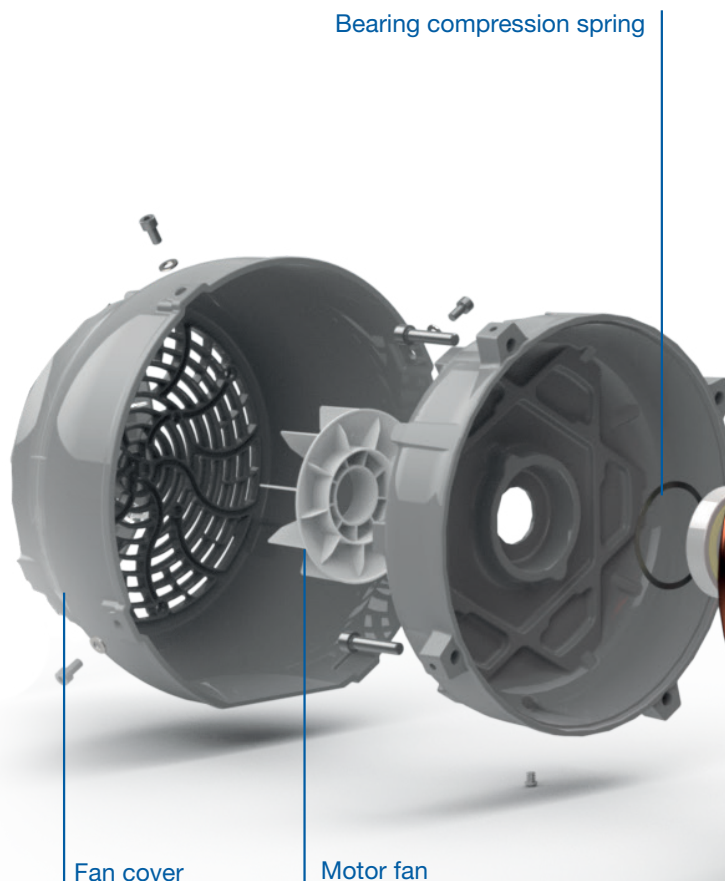
Pumps

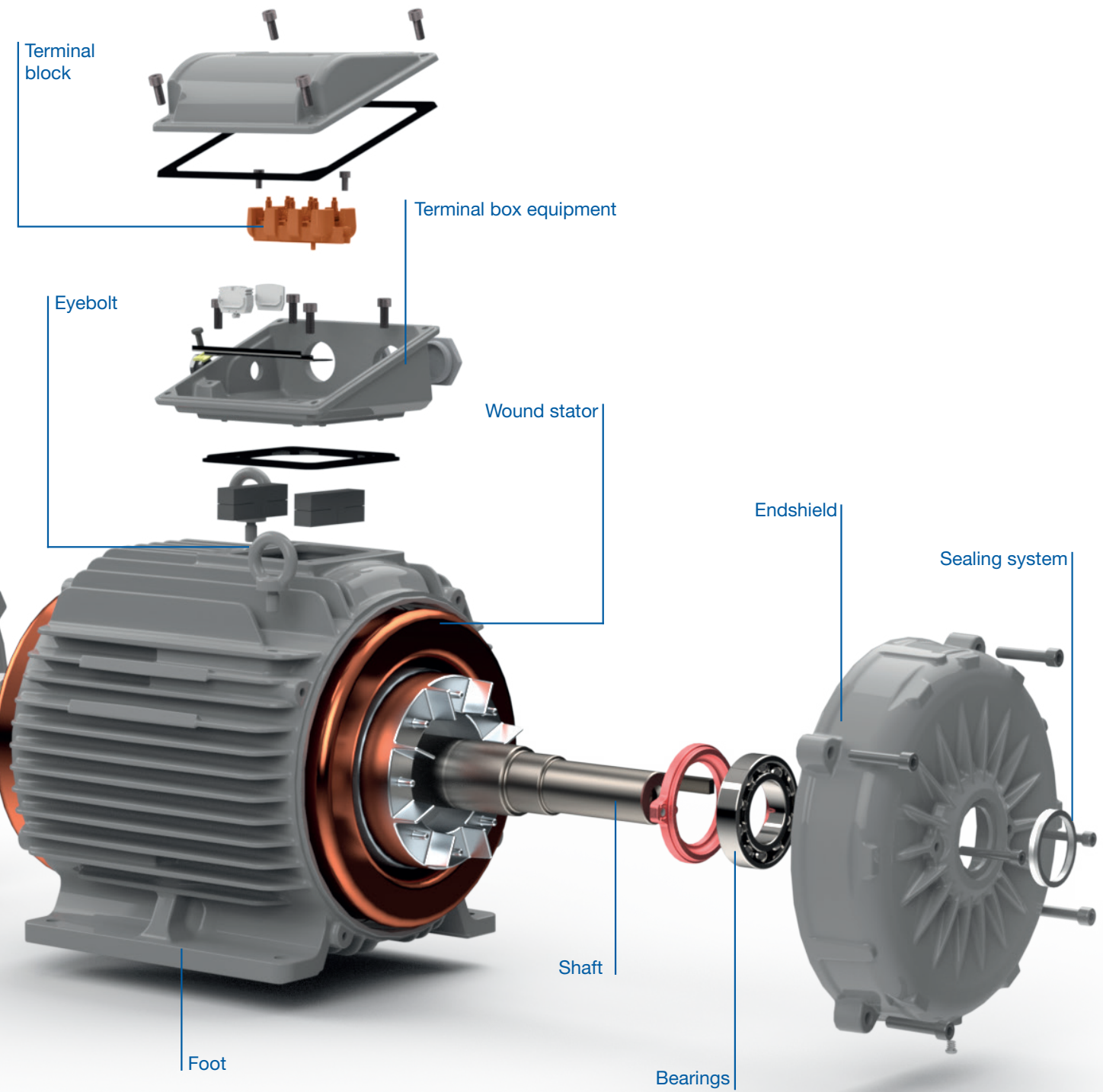


HPUs



Auxiliary systems





Technical features

Frame size			63M	71M	80M	90S	90L	100L	112L	132S/M
Mechanical features										
Marking/logos on nameplate			CE (according EU regulation), UKCA (according UK regulation)							
Certification			CE (according EU regulation), UKCA (according UK regulation)							
Mounting			B3T							
Frame	Material		Aluminium							
Degree of protection			IP55							
Grounding			Single grounding							
Cooling method			TEFC							
Fan	Material		Plastic							
Fan cover			Steel							
Endshields			Aluminium							
Drain plug			-							
Rolling bearings	Shielded/clearance DE		ZZ-C3							
	Shielded/clearance NDE		ZZ-C3							
	Locking		None							
	Bearing life (h)		20,000h							
	Drive end side		6201	6202	6204	6205		6206		6208
	Non drive end side		6201	6202	6204	6205		6206	6208	
Bearing sealing			V'ring							
Joints sealing			None							
Lubrication	Grease type		Mobil Polyrex EM							
	Oil type		None							
	Grease fitting		None							
Terminal block			BMC 6 terminals							
Terminal box	Material		Aluminium							
Additional terminal box			None							
Leads inlet	Main	Size	1 x M20 x 1.5 + 1 x M16 x 1.5			—	1 x M25 x 1.5 + 1 x M16 x 1.5		2 x M32 x 1.5	
	Lateral hole	Size	None							
	Additional	Size	None							
Shaft	Material		SAE 1040							
	DE threaded hole	2p	M4	M5	M6	M8	M10	M12		
		4 - 8p								
Key			C Key (DIN A)							
Vibration level			Grade A							
Balancing			With 1/2 key							
Nameplate	Material		Stainless steel AISI 304							
Painting	Type		203 A (C3 as per ISO 12944)							
	Colour		RAL 7042							
	Tropicalized		None							
Packaging			Cardboard box							
Electrical features										
Design			N							
Voltage (50/60Hz)			230/400//440-460 V W/ 6 cables						400//440-460 V W/ 6 cables	
Winding	Impregnation		Dip and bake							
	Insulation class		F (DT 80K)							
Service factor			1.00							
Thermal protector			Thermistor PTC 145 °C shutdown							
Space heaters			None							
Flying leads			None							
Ambient temperature	Maximum		+45 °C							
	Minimum		-20 °C							
Starting method			Direct-on-line							

Notes: Motors suitable to operate with a variable-frequency drive for applications with a parabolic torque load, limited to 0.95 × rated torque (T_n).

Under increased power operating conditions (440 V @ 60 Hz S1 // 440 V @ 60 Hz S2 60min // 440 V @ 60 Hz S2 30 min), motors are suitable for operation with a variable-frequency drive in applications with a parabolic torque load, limited to 0.90 × rated torque (T_n). For constant torque please consult WEG.

Available options: degree of protection IP56 and space heater.

Technical features

Frame size			160M	160L	180M	180L	200M	200M/L	W225S/M	225S/M	250S/M	W280S/M	W315S/M	315S/M	315L	355M/L
Mechanical features																
Marking/logos on nameplate			CE (according EU regulation), UKCA (according UK regulation)													
Certification			CE (according EU regulation), UKCA (according UK regulation)													
Mounting			B3T													
Frame	Material		FC-200 cast iron													
Degree of protection			IP55													
Grounding			Single grounding							Double grounding						
Cooling method			Totally enclosed fan cooled (IC411)													
Fan	Material		Plastic													
Fan cover	Material		Polymeric (plastic)										FC-200 cast iron			
Endshields			FC-200 cast iron													
Drain plug			Automatic T-labyrinth drain plug													
Rolling bearings	Shielded/clearance (DE)		ZZ-C3							C3						
	Shielded/clearance (NDE)															
	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 cap and fitted with helical spring washer in the NDE bearing			
	Bearing life (h)		20,000h													
	Drive end side	2P	6209	6211	6212	6214		6316		6314				6316		
		4P/6P/8P								6319				6322		
	Non drive end side	2P	6209					6212			6314					
4P/6P/8P		6314									6316		6319			
Bearing sealing	Drive end side		V'ring						WSeal							
	Non drive end side		V'ring										WSeal			
Joints sealing			None													
Lubrication	Grease type		Polyurea based grease													
	Grease fitting		None							With grease fittings in DE and NDE bearings						
Terminal block			BMC 6 pins (orange)													
Terminal box	Material		FC-200 cast iron													
Additional terminal box			None													
Leads inlet	Main	Size	2 x M40 x 1.5				2 x M50 x 1.5				2 x M63 x 1.5				2 x M80 x 2	
	Lateral hole		M20 x 1.5													
	Additional		-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Plug		Plastic plug for transport and storage purposes													
Shaft	Material		SAE 1040/45										SAE 4140			
	DE threaded hole	2P	M16				M20								M20	
		4P/6P/8P													M24	
Key			Fitted with "A" type						Fitted with "B" type							
Vibration level			Grade A													
Balancing			With 1/2 key													
Nameplate		Material	Stainless steel AISI 304													
Painting	Type		203 A (C3 as per ISO 12944)													
	Colour		RAL 7042													
	Tropicalized		None													
Packaging			Crate													
Electrical features																
Design			N													
Voltage (50/60Hz)			400/440-460 V W/ 6 leads													
Winding	Impregnation		Dip and bake							Continuous resin flow						
	Insulation class	IE3 and IE4	F (DT 80K)													
Service factor			1.00													
Thermal protector			Single PTC thermistor - 150 °C (1 per phase)													
Space heaters			None													
Flying leads			None													
Ambient temperature	Maximum		+45 °C													
	Minimum		-20 °C													
Starting method			Direct-on-line													

Notes: Motors suitable to operate with a variable-frequency drive for applications with a parabolic torque load, limited to 0.95 × rated torque (T_n). Under increased power operating conditions (440 V @ 60 Hz S1 // 440 V @ 60 Hz S2 60min // 440 V @ 60 Hz S2 30 min), motors are suitable for operation with a variable-frequency drive in applications with a parabolic torque load, limited to 0.90 × rated torque (T_n). For 315 and 355 frames, a grounding brush and an insulated bearing are required. For constant torque please consult WEG. For constant torque please consult WEG. Available options: Degree of protection IP56 and space heater. Insulated bearing hub and grounding brush for frame sizes 315 and 355.

Model number × performance sequences

The motors in this series feature multiple performance sequences on the nameplate, corresponding to the various combinations of voltage, frequency, and duty cycle commonly used in the marine sector.

W20 Marine - Premium Efficiency													
#ref	Frame	Weight (kg)	Inertia J (kgm2)	50 Hz - IE3 - 400 V - S1		60 Hz - IE3 - 460 V - S1		60 Hz - 440 V - S1		60 Hz - 440 V - S2 60min		60 Hz - 440 V - S2 30min	
				Output		Output		Output		Output		Output	
				kW	HP	kW	HP	kW	HP	kW	HP	kW	HP
II poles													
1	63M	6.3	0.0002	0.12	0.16	0.12	0.16	0.16	0.22	0.16	0.22	0.17	0.23
2	63M	6.3	0.0002	0.18	0.25	0.18	0.25	0.24	0.32	0.24	0.32	0.25	0.33
3	63M	6.3	0.0002	0.25	0.33	0.25	0.33	0.34	0.46	0.34	0.46	0.35	0.48
4	71M	8.1	0.0004	0.37	0.5	0.37	0.5	0.5	0.68	0.5	0.68	0.53	0.72
5	71M	9	0.0004	0.55	0.75	0.55	0.75	0.74	0.99	0.74	0.99	0.8	1.08
6	80M	12.2	0.0009	0.75	1	0.75	1	1	1.36	1	1.36	1.05	1.43
7	80M	13.9	0.0011	1.1	1.5	1.1	1.5	1.5	2	1.5	2	1.54	2.1
8	90S	17.4	0.001	1.5	2	1.5	2	2	2.7	2	2.7	2.1	2.85
9	90L	21.4	0.0024	2.2	3	2.2	3	3	4	3	4	3.1	4.2
10	100L	30.3	0.005	3	4	3	4	4.1	5.6	4.1	5.6	4.2	5.7
11	112M	35.8	0.0063	4	5.5	4	5.5	5.4	7.3	5.4	7.3	5.6	7.6
12	132S/M	56	0.0163	5.5	7.5	5.5	7.5	7.4	9.9	7.4	9.9	7.7	10.5
13	132S/M	68	0.0218	7.5	10	7.5	10	10.1	13.7	10.1	13.7	10.5	14.3
14	160M	110	0.0404	11	15	11	15	14	19	14	19	15.4	20.9
15	160M	120	0.0514	15	20	15	20	19.5	26.5	19.5	26.5	20	27.2
16	160L	135	0.0625	18.5	25	18.5	25	24	32.6	24	32.6	25	34
17	180M	165	0.0919	22	30	22	30	27	37	27	37	28.6	38.9
18	200M/L	230	0.1611	30	40	30	40	37.5	51	37.5	51	39	53
19	200M/L	250	0.1865	37	50	37	50	46	63	46	63	48	65.2
20	225S/M	340	0.2601	45	60	45	60	56	76	56	76	61	83
21	250S/M	415	0.3384	55	75	55	75	68	92.3	68	92.3	72	98
22	W280S/M	520	0.5075	75	100	75	100	90	125	90	125	94.2	128
23	W280S/M	520	0.4568	90	125	90	125	108	147	108	147	113	154
24	W315S/M	745	0.9776	110	150	110	150	129	176	129	176	132	175
25	W315S/M	800	1.1998	132	175	132	175	152	206	152	206	158	215
26	W315S/M	945	1.7331	160	220	160	220	186	252	186	252	192	261
27	315S/M	1,100	2.6937	185	250	185	250	215	292	215	292	222	302
28	315S/M	1,100	2.6937	200	270	200	270	230	315	230	315	240	326
29	315L	1,300	3.4245	250	340	250	340	288	391	288	391	300	400
30	355M/L	1,680	5.1474	315	430	315	430	362	492	362	492	378	513
31	355M/L	1,820	6.0053	355	480	355	480	415	564	415	564	425	578
IV poles													
32	63M	6.1	0.0002	0.12	0.16	0.12	0.16	0.16	0.22	0.16	0.22	0.17	0.23
33	63M	6.2	0.0002	0.18	0.25	0.18	0.25	0.24	0.32	0.24	0.32	0.25	0.33
34	71M	8.2	0.0007	0.25	0.33	0.25	0.33	0.34	0.46	0.34	0.46	0.35	0.48
35	71M	9	0.0007	0.37	0.5	0.37	0.5	0.5	0.68	0.5	0.68	0.53	0.72
36	80M	11.9	0.0021	0.55	0.75	0.55	0.75	0.74	0.99	0.74	0.99	0.8	1.08
37	80M	13.5	0.0026	0.75	1	0.75	1	1	1.36	1	1.36	1.05	1.43
38	90S	16.8	0.003	1.1	1.5	1.1	1.5	1.5	2	1.5	2	1.54	2.1
39	90L	20.9	0.0045	1.5	2	1.5	2	2	2.7	2	2.7	2.1	2.85
40	100L	30.5	0.0081	2.2	3	2.2	3	3	4	3	4	3.1	4.2
41	100L	30.4	0.0081	3	4	3	4	4.1	5.6	4.1	5.6	4.2	5.7
42	112M	38.5	0.0127	4	5.5	4	5.5	5.4	7.3	5.4	7.3	5.6	7.6
43	132S/M	69	0.037	5.5	7.5	5.5	7.5	7.4	9.9	7.4	9.9	7.7	10.5
44	132S/M	75	0.0423	7.5	10	7.5	10	10.1	13.7	10.1	13.7	10.5	14.3
45	160M	115	0.1048	11	15	11	15	14	19	14	19	15.4	20.9
46	160L	145	0.1467	15	20	15	20	19.5	26.5	19.5	26.5	20	27.2
47	180M	175	0.174	18.5	25	18.5	25	24	32.6	24	32.6	25	34
48	180L	206.4	0.2088	22	30	22	30	27	37	27	37	28.6	38.9
49	200M/L	256.03	0.3074	30	40	30	40	37.5	51	37.5	51	39	53
50	W225S/M	280	0.3743	37	50	37	50	46	63	46	63	48	65.2
51	225S/M	362.46	0.5406	45	60	45	60	56	76	56	76	61	83
52	250S/M	445.42	0.7756	55	75	55	75	68	92.3	68	92.3	72	98
53	W280S/M	548.1	1.0791	75	100	75	100	90	125	90	125	94.2	128
54	W280S/M	550	1.0116	90	125	90	125	108	147	108	147	113	154

Model number × performance sequences

W20 Marine - Premium Efficiency													
#ref	Frame	Weight (kg)	Inertia J (kgm2)	50 Hz - IE3 - 400 V - S1		60 Hz - IE3 - 460 V - S1		60 Hz - 440 V - S1		60 Hz - 440 V - S2 60min		60 Hz - 440 V - S2 30min	
				Output		Output		Output		Output		Output	
				kW	HP	kW	HP	kW	HP	kW	HP	kW	HP
IV poles													
55	W315S/M	780	1.909	110	150	110	150	132	175	132	175	138	188
56	W315S/M	829.25	2.4435	132	175	132	175	158	215	158	215	165	224
57	W315S/M	990	3.2835	160	220	160	220	192	261	192	261	200	270
58	315S/M	1,080	3.997	185	250	185	250	220	300	220	300	230	315
59	315S/M	1,125	4.3301	200	270	200	270	240	326	240	326	250	340
60	315L	1,310	5.3048	250	340	250	340	288	391	288	391	300	400
61	315L	1,622.59	6.8521	315	430	315	430	345	470	345	470	362	492
62	355M/L	1,840	10.5603	355	480	355	480	415	564	415	564	425	578
VI poles													
63	71M	8	0.0008	0.18	0.25	0.18	0.25	0.24	0.32	0.24	0.32	0.25	0.33
64	80M	10	0.0016	0.25	0.33	0.25	0.33	0.34	0.46	0.34	0.46	0.35	0.48
65	80M	12	0.0021	0.37	0.5	0.37	0.5	0.5	0.68	0.5	0.68	0.53	0.72
66	90S	16	0.0033	0.55	0.75	0.55	0.75	0.74	0.99	0.74	0.99	0.8	1.08
67	90S	17	0.0033	0.75	1	0.75	1	1	1.36	1	1.36	1.05	1.43
68	100L	30	0.0081	1.1	1.5	1.1	1.5	1.5	2	1.5	2	1.54	2.1
69	112M	37	0.0195	1.5	2	1.5	2	2	2.7	2	2.7	2.1	2.85
70	132S/M	74	0.0605	2.2	3	2.2	3	3	4	3	4	3.1	4.2
71	132S/M	78	0.0656	3	4	3	4	4.1	5.6	4.1	5.6	4.2	5.7
72	132S/M	78	0.0656	4	5.5	4	5.5	5.4	7.3	5.4	7.3	5.6	7.6
73	160M	115	0.1708	5.5	7.5	5.5	7.5	6.9	9.38	6.9	9.38	7.4	9.9
74	160M	119	0.1821	7.5	10	7.5	10	9	12.2	9	12.2	9.3	12.6
75	160L	133	0.1821	11	15	11	15	13.2	18	13.2	18	13.8	18.8
76	180L	187	0.2854	15	20	15	20	19	26	19	26	19.9	27
77	200M/L	226	0.3477	18.5	25	18.5	25	23	31	23	31	24	32.6
78	200M/L	233	0.2892	22	30	22	30	27.6	37.5	27.6	37.5	28.6	38.9
79	W225S/M	287	0.4209	30	40	30	40	37.5	51	37.5	51	39	53
80	250S/M	470	1.1565	37	50	37	50	46	63	46	63	48	65
81	W280S/M	489	1.1565	45	60	45	60	56	76	56	76	58	79
82	W280S/M	533	1.6749	55	75	55	75	68.5	93	68.5	93	71.47	97.1
83	W315S/M	926	4.2029	75	100	75	100	93.25	125	93.25	125	98	133
84	W315S/M	848	3.3546	90	125	90	125	108	147	108	147	113	154
85	W315S/M	943	4.125	110	150	110	150	132	175	132	175	137	186
86	315S/M	1,095	6.177	132	175	132	175	155	210	155	210	165	224
87	315L	1,235	7.0805	160	220	160	220	168	228	168	228	184	249.9
88	315L	1,364	8.4402	185	250	185	250	194	263	194	263	213	290
89	355M/L	1,405	7.188	200	270	200	270	240	326	240	326	250	340
90	355M/L	1,642	9.7095	250	340	250	340	300	400	300	400	313	425
91	355M/L	1,933	12.894	315	430	315	430	378	513	378	513	394	536
VIII poles													
92	160M	100	0.1261	4	5.5	4	5.5	5	6.8	5	6.8	5.4	7.3
93	160M	118	0.1821	5.5	7.5	5.5	7.5	6.9	9.38	6.9	9.38	7.4	9.9
94	160L	142	0.2274	7.5	10	7.5	10	8.63	11.73	8.63	11.73	9.2	12.5
95	180L	186	0.2523	11	15	11	15	13.2	18	13.2	18	13.8	18.8
96	200M/L	253	0.3785	15	20	15	20	16.9	22.9	16.9	22.9	17.7	24
97	W225S/M	262	0.3638	18.5	25	18.5	25	21	28.5	21	28.5	22	30
98	225S/M	325	0.6107	22	30	22	30	27.6	37.5	27.6	37.5	28.6	38.9
99	250S/M	419	0.9228	30	40	30	40	36	49	36	49	37	50
100	W280S/M	480	1.1234	37	50	37	50	44	59.7	44	59.7	46	63
101	W280S/M	532	1.3642	45	60	45	60	54	73	54	73	56	76
102	W315S/M	797	3.107	55	75	55	75	66	90	66	90	69	94
103	W315S/M	878	3.5835	75	100	75	100	86	117	86	117	90	125
104	W315S/M	984	4.4657	90	125	90	125	103	139	103	139	107.5	146
105	315L	1,218	6.9907	110	150	110	150	115.5	157	115.5	157	126	172
106	355M/L	1,295	8.3444	132	175	132	175	138	188	138	188	151	205
107	355M/L	1,406	9.8944	160	220	160	220	184	249.9	184	249.9	191	260
108	355M/L	1,551	11.9611	185	250	185	250	212	288	212	288	222	302
109	355M/L	1,625	12.9945	200	270	200	270	230	315	230	315	240	326

Model number × performance sequences

W20 Marine - Super Premium Efficiency													
#ref	Frame	Weight (kg)	Inertia J (kgm2)	50 Hz - IE3 - 400 V - S1		60 Hz - IE3 - 460 V - S1		60 Hz - 440 V - S1		60 Hz - 440 V - S2 30min		60 Hz - 440 V - S2 60min	
				Output		Output		Output		Output		Output	
				kW	HP	kW	HP	kW	HP	kW	HP	kW	HP
II poles													
110	W280S/M	520	0.4568	75	100	75	100	90	125	90	125	94.2	128
111	W280S/M	565	0.5414	90	125	90	125	108	147	108	147	113	154
112	W315S/M	815	1.2443	110	150	110	150	132	175	132	175	138	188
113	W315S/M	875	1.4664	132	175	132	175	158	215	158	215	165	224
114	315S/M	1,015	2.2447	160	220	160	220	191	260	191	260	200	270
115	315S/M	1,115	2.7685	200	270	200	270	240	326	240	326	250	340
116	315L	1,330	3.5916	250	340	250	340	290	394	290	394	300	400
117	355M/L	1,700	5.2547	315	430	315	430	367	499	367	499	378	513
118	355M/L	1,825	6.0053	355	480	355	480	415	565	415	565	425	578
IV poles													
119	W280S/M	560	1.0757	75	100	75	100	90	125	90	125	94.2	128
120	W280S/M	595	1.2102	90	125	90	125	108	147	108	147	113	154
121	W315S/M	890	2.5962	110	150	110	150	132	175	132	175	138	188
122	W315S/M	925	2.8253	132	175	132	175	158	215	158	215	165	224
123	315S/M	1,115	4.2191	160	220	160	220	191	260	191	260	200	270
124	315S/M	1,255	5.3294	200	270	200	270	240	326	240	326	250	340
125	315L	1,365	5.6364	250	340	250	340	288	391	288	391	300	400
126	315L	1,505	6.8521	315	430	315	430	345	470	345	470	362	492
127	355M/L	1,930	11.0972	355	480	355	480	415	565	415	565	425	578
VI poles													
128	W315S/M	836	3.24019	75	100	75	100	94.2	128	94.2	128	101	137
129	W315S/M	895	3.71376	90	125	90	125	113	154	113	154	122	166
130	W315S/M	1,002	4.61658	110	150	110	150	138	188	138	188	150	200
131	315L	1,196	6.58611	132	175	132	175	165	224	165	224	172	234
132	315L	1,336	8.13117	160	220	160	220	200	270	200	270	208	283
133	355M/L	1,566	8.91495	200	270	200	270	250	340	250	340	270	365
134	355M/L	1,790	11.23761	250	340	250	340	300	400	300	400	313	425
135	355M/L	1,955	12.95232	315	430	315	430	378	513	378	513	394	536
VIII poles													
136	W315S/M	878	35.835	75	100	75	100	86	117	86	117	90	125
137	W315S/M	984	44.657	90	125	90	125	103	139	103	139	108	147
138	315L	1,218	7.006	110	150	110	150	127	173	127	173	132	175
139	355M/L	1,295	83.444	132	175	132	175	145	197	145	197	151	205
140	355M/L	1,406	98.944	160	220	160	220	182	247	182	247	190	258
141	355M/L	1,625	129.945	200	270	200	270	228	310	228	310	238	323

Electrical tables

W20 Marine - Premium Efficiency - 50 Hz - IE3 - 400 V - S1

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I _L /I _N	Locked rotor torque T _L /T _N	Breakdown torque T _b /T _N	Inertia J (kgm ²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V								Full load current I _N (A)
													% of full load								
	kW	HP							Efficiency				Power factor								
									50	75			100	50	75	100					
II poles																					
1	0.12	0.16	63M	0.04	5.8	7.2	7.0	0.0002	34	75	6.3	75	2,885	46.9	56.2	60.8	0.37	0.45	0.52	0.55	
2	0.18	0.25	63M	0.06	5.4	4.6	4.6	0.0002	24	53	6.3	75	2,845	54.9	63.1	65.9	0.44	0.55	0.64	0.62	
3	0.25	0.33	63M	0.09	4.7	3.1	3.1	0.0002	20	44	6.3	75	2,780	62.5	68.4	69.7	0.54	0.67	0.76	0.68	
4	0.37	0.5	71M	0.13	6.2	2.9	3.3	0.0004	20	44	8.1	80	2,860	66.9	72.5	73.8	0.57	0.7	0.79	0.92	
5	0.55	0.75	71M	0.19	6.7	3.5	3.5	0.0004	20	44	9	80	2,840	73.5	77.5	77.8	0.61	0.74	0.82	1.24	
6	0.75	1	80M	0.25	6.9	2.6	3.3	0.0009	12	26	12.2	80	2,890	76.2	79.7	80.7	0.61	0.74	0.82	1.64	
7	1.1	1.5	80M	0.37	7.4	2.8	3.6	0.0011	8	18	13.9	80	2,890	80.1	82.7	82.7	0.62	0.75	0.83	2.31	
8	1.5	2	90S	0.5	8.7	3.7	3.8	0.001	12	26	17.4	80	2,895	83.6	84.2	84.2	0.65	0.8	0.83	3.1	
9	2.2	3	90L	0.74	9.8	4.4	4.2	0.0024	12	26	21.4	80	2,910	84.0	85.9	85.9	0.71	0.82	0.87	4.25	
10	3	4	100L	1.00	9.7	3.0	4.2	0.005	10	22	30.3	85	2,930	85.3	87.0	87.1	0.75	0.85	0.89	5.59	
11	4	5.5	112M	1.33	10.0	3.1	4.0	0.0063	8	18	35.8	85	2,935	87.3	88.1	88.1	0.8	0.87	0.91	7.2	
12	5.5	7.5	132S/M	1.82	10.5	3.5	4.0	0.0163	16	35	56	83	2,945	87.4	88.9	89.2	0.82	0.88	0.91	9.78	
13	7.5	10	132S/M	2.48	10.4	3.7	3.9	0.0218	23	51	68	83	2,940	89.5	90.1	90.1	0.85	0.9	0.92	13.1	
14	11	15	160M	3.63	7.2	2.7	3.2	0.0404	8	18	110	67	2,950	89.8	90.8	91.2	0.69	0.79	0.85	20.48	
15	15	20	160M	4.96	7.8	2.7	3.6	0.0514	8	18	120	67	2,945	90.8	91.8	91.9	0.7	0.81	0.86	27.39	
16	18.5	25	160L	6.11	8.7	3.8	4.1	0.0625	8	18	135	67	2,950	91.1	92.2	92.4	0.68	0.79	0.85	34.0	
17	22	30	180M	7.24	7.8	2.2	3.4	0.0919	6	13	165	67	2,960	91.3	92.4	92.7	0.71	0.81	0.86	39.83	
18	30	40	200M/L	9.87	6.9	2.8	3.2	0.1611	12	26	230	72	2,960	92.0	93.2	93.3	0.71	0.81	0.85	54.6	
19	37	50	200M/L	12.18	7.2	3.1	2.9	0.1865	8	18	250	72	2,958	92.5	93.4	93.7	0.72	0.82	0.86	66.27	
20	45	60	225S/M	14.78	7.8	2.9	3.3	0.2601	8	18	340	74	2,965	92.1	93.3	94.0	0.71	0.80	0.85	81.29	
21	55	75	250S/M	18.07	7.7	2.9	3.2	0.3384	12	26	415	74	2,965	92.6	93.6	94.3	0.73	0.82	0.85	99.04	
22	75	100	W280S/M	24.65	7.6	2.9	2.9	0.5075	14	31	520	74	2,963	93.7	94.3	94.7	0.81	0.87	0.89	128.44	
23	90	125	W280S/M	29.61	7.6	3.0	3.1	0.4568	20	44	520	74	2,960	93.9	94.6	95.0	0.77	0.84	0.87	157.17	
24	110	150	W315S/M	36.07	7.0	1.8	2.6	0.9776	26	57	745	77	2,970	93.8	94.6	95.2	0.78	0.85	0.87	191.7	
25	132	175	W315S/M	43.22	7.0	2.0	2.7	1.1998	21	46	800	77	2,975	94.4	95.2	95.4	0.8	0.86	0.88	226.95	
26	160	220	W315S/M	52.38	8.6	2.0	2.6	1.7331	19	42	945	77	2,975	94.7	95.3	95.6	0.84	0.88	0.9	268.41	
27	185	250	315S/M	60.49	7.4	2.3	2.9	2.6937	30	66	1,100	77	2,979	95.5	95.7	95.7	0.81	0.87	0.89	313.51	
28	200	270	315S/M	65.28	7.5	2.3	2.6	2.6937	26	57	1,100	77	2,984	95.4	95.8	95.8	0.81	0.87	0.89	338.57	
29	250	340	315L	81.6	7.5	2.5	2.4	3.4245	20	44	1,300	78	2,984	95.0	95.8	95.8	0.82	0.86	0.89	423.22	
30	315	430	355M/L	102.78	7.9	2.5	2.5	5.1474	30	66	1,680	80	2,985	95.5	95.8	95.8	0.84	0.89	0.9	527.33	
31	355	480	355M/L	115.72	8.7	2.7	3.0	6.0053	25	55	1,820	80	2,988	95.3	95.8	95.8	0.81	0.87	0.89	600.97	
IV poles																					
32	0.12	0.16	63M	0.08	3.5	2.6	2.8	0.0002	36	79	6.1	75	1,395	52.5	60.3	64.8	0.39	0.49	0.59	0.45	
33	0.18	0.25	63M	0.13	3.7	2.9	2.6	0.0002	28	62	6.2	75	1,370	49.7	58.2	69.9	0.39	0.49	0.6	0.62	
34	0.25	0.33	71M	0.17	4.9	2.4	2.9	0.0007	28	62	8.2	75	1,420	66.7	72.2	73.5	0.45	0.58	0.68	0.72	
35	0.37	0.5	71M	0.26	5.0	2.6	2.7	0.0007	28	62	9	75	1,405	73.6	77.0	77.3	0.49	0.63	0.73	0.95	
36	0.55	0.75	80M	0.37	6.3	3.1	3.3	0.0021	24	53	11.9	75	1,435	76.5	80.0	80.8	0.52	0.66	0.75	1.31	
37	0.75	1	80M	0.51	6.4	2.9	3.2	0.0026	20	44	13.5	75	1,430	79.8	82.1	82.5	0.56	0.7	0.78	1.68	
38	1.1	1.5	90S	0.75	6.8	3.4	3.5	0.003	22	48	16.8	75	1,435	82.5	84	84.1	0.52	0.67	0.76	2.48	
39	1.5	2	90L	1.01	7.4	3.9	3.9	0.0045	16	35	20.9	75	1,440	83	85	85.3	0.54	0.68	0.77	3.3	
40	2.2	3	100L	1.48	8.4	3.9	4.1	0.0081	16	35	30.5	78	1,450	86.2	86.7	86.7	0.56	0.7	0.78	4.7	
41	3	4	100L	2.02	7.8	4	3.9	0.0081	16	35	30.4	78	1,445	85	86.6	87.7	0.54	0.68	0.77	6.41	
42	4	5.5	112M	2.68	8.2	4.1	4.3	0.0127	12	26	38.5	78	1,455	86.8	88.2	88.6	0.54	0.67	0.76	8.57	
43	5.5	7.5	132S/M	3.67	8.6	3.5	3.5	0.037	24	53	69	83	1,460	89.6	89.6	89.6	0.67	0.78	0.83	10.7	
44	7.5	10	132S/M	4.99	9.1	4.3	3.9	0.0423	12	26	75	83	1,465	90.1	90.4	90.4	0.64	0.75	0.81	14.8	
45	11	15	160M	7.26	6.9	2.5	3.4	0.1048	8	18	115	59	1,475	90.1	91	91.4	0.64	0.75	0.82	21.18	
46	15	20	160L	9.91	7.1	2.6	3.4	0.1467	8	18	145	59	1,475	91.3	92	92.1	0.67	0.78	0.84	27.99	
47	18.5	25	180M	12.22	6.7	2.6	3.2	0.174	8	18	175	62	1,475	92	92.5	92.6	0.67	0.78	0.83	34.74	
48	22	30	180L	14.53	7.5	3.5	3.7	0.2088	8	18	206.4	62	1,475	91.9	92.8	93	0.63	0.75	0.82	41.64	
49	30	40	200M/L	19.74	7.2	2.6	3.1	0.3074	8	18	256.03	63	1,480	93.2	93.6	93.6	0.68	0.79	0.84	55.07	
50	37	50	W225S/M	24.38	7.8	2.8	3.1	0.3743	8	18	280	63	1,478	93.1	93.8	93.9	0.67	0.78	0.83	68.52	
51	45	60	225S/M	29.61	7.3	3	3.3	0.5406	19	42	362.46	64	1,480	93	94	94.2	0.68	0.78	0.83	83.07	
52	55	75	250S/M	36.07	7.6	2.9	3.2	0.7756	12	26	445.42	64	1,485	93.6	94.3	94.6	0.68	0.78	0.83	101.11	
53	75	100	W280S/M	49.29	7.9	2.8	2.9	1.0791	15	33	548.1	64	1,482	94.4	95	95	0.73	0.82	0.85	134.06	
54	90	125	W280S/M	59.07	7.8	3.3	3.5	1.0116	16	35	550	64	1,484	94.3	95.1	95.2	0.67	0.77	0.82	166.41	

Electrical tables

W20 Marine - Premium Efficiency - 50 Hz - IE3 - 400 V - S1

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/In	Locked rotor torque TI/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	Rated speed (rpm)	400 V						Full load current In (A)
														% of full load			Power factor			
	kW	HP							Efficiency	75				100	50	75	100			
IV poles																				
55	110	150	W315S/M	72.15	6.8	2.2	2.6	1.909	12	26	780	71	1,485	94.5	95	95.4	0.67	0.77	0.82	202.96
56	132	175	W315S/M	86.58	7	2.3	2	2.4435	17	37	829.25	71	1,485	95	95.6	95.6	0.7	0.78	0.82	243.04
57	160	220	W315S/M	104.94	8	2.4	2.5	3.2835	14	31	990	71	1,485	95.3	95.7	95.8	0.71	0.8	0.83	290.44
58	185	250	315S/M	121.1	7.5	2.7	2.7	3.997	25	55	1,080	71	1,488	95.5	95.9	95.9	0.72	0.81	0.85	327.58
59	200	270	315S/M	130.74	7.7	2.7	2.8	4.3301	24	53	1,125	71	1,490	95.3	96	96	0.74	0.82	0.86	349.65
60	250	340	315L	163.42	7.4	2.8	2.6	5.3048	21	46	1,310	73	1,490	95.8	96	96	0.72	0.81	0.85	437.07
61	315	430	315L	205.91	8.3	3.1	2.8	6.8521	17	37	1,622.59	73	1,490	95.9	96	96	0.74	0.82	0.86	550.7
62	355	480	355M/L	231.9	7.1	2.3	2.3	10.5603	25	55	1,840	78	1,491	95.3	96	96	0.71	0.8	0.84	635.41
VI poles																				
63	0.18	0.25	71M	0.19	3.5	2.1	2.2	0.0008	47	103	8	75	930	53.9	61.3	63.9	0.42	0.54	0.64	0.64
64	0.25	0.33	80M	0.26	4.1	2.4	2.7	0.0016	53	117	10	75	950	59.3	66.5	68.6	0.4	0.51	0.61	0.86
65	0.37	0.5	80M	0.38	4.1	2.2	2.4	0.0021	51	112	12	75	940	67.8	72.4	73.5	0.45	0.58	0.68	1.07
66	0.55	0.75	90S	0.56	4.8	2.2	2.5	0.0033	60	132	16	75	950	75.5	77.2	77.2	0.44	0.57	0.67	1.53
67	0.75	1	90S	0.78	4.5	2.3	2.2	0.0033	32	70	17	75	935	74.9	77.8	78.9	0.46	0.6	0.69	1.99
68	1.1	1.5	100L	1.12	7	3.5	3.3	0.0081	40	88	30	80	960	80.7	81	81	0.56	0.69	0.77	2.55
69	1.5	2	112M	1.51	6.2	2.8	3.2	0.0195	40	88	37	77	965	82	82.5	82.5	0.45	0.58	0.68	3.86
70	2.2	3	132S/M	2.19	9.7	3	3.5	0.0605	48	106	74	83	979	84	84.3	84.3	0.64	0.75	0.81	4.65
71	3	4	132S/M	2.99	9.6	3	3.4	0.0656	44	97	78	83	978	85.2	85.6	85.6	0.65	0.76	0.82	6.17
72	4	5.5	132S/M	3.99	10.1	3.9	3.8	0.0656	20	44	78	83	977	86.7	86.8	86.8	0.62	0.74	0.8	8.31
73	5.5	7.5	160M	5.45	7.9	2.1	2.8	0.1708	14	31	115	59	983	88	88	88	0.63	0.76	0.82	11.0
74	7.5	10	160M	7.45	7.4	2.0	2.6	0.1821	10	22	119	59	980	89.1	89.1	89.1	0.67	0.79	0.84	14.5
75	11	15	160L	10.98	7.8	2.1	2.8	0.1821	6	13	133	59	976	90.3	90.3	90.3	0.67	0.78	0.84	21.4
76	15	20	180L	14.94	8.0	2.5	3.2	0.2854	12	26	187	64	978	90.5	91.1	91.2	0.59	0.72	0.79	30.1
77	18.5	25	200M/L	18.39	5.5	2.0	2.5	0.3477	29	64	226	64	980	90.9	91.7	91.7	0.52	0.65	0.73	39.9
78	22	30	200M/L	21.91	5.6	2.0	2.4	0.2892	20	44	233	64	978	91.2	92.1	92.2	0.54	0.67	0.75	45.9
79	30	40	W225S/M	29.82	6.1	2.1	2.5	0.4209	32	70	287	64	980	92.3	92.9	92.9	0.58	0.7	0.76	61.3
80	37	50	250S/M	36.59	7.7	2.6	3.2	1.1565	14	31	470	64	985	92.9	93.3	93.3	0.66	0.77	0.82	69.8
81	45	60	W280S/M	44.63	7.3	2.1	2.9	1.1565	15	33	489	64	982	93.7	93.7	93.7	0.65	0.77	0.82	84.5
82	55	75	W280S/M	54.44	8.0	2.6	3.3	1.6749	12	26	533	64	984	93.7	94	94.1	0.62	0.74	0.8	105
83	75	100	W315S/M	73.79	7.0	2.1	2.5	4.2029	18	40	926	68	990	94.2	94.6	94.6	0.64	0.75	0.8	143
84	90	125	W315S/M	88.72	7.0	2.1	2.4	3.3546	19	42	848	68	988	94.7	94.9	94.9	0.72	0.8	0.83	165
85	110	150	W315S/M	108.33	6.9	2.1	2.3	4.1250	18	40	943	68	989	95.1	95.1	95.1	0.69	0.79	0.82	204
86	132	175	315S/M	130.00	5.7	1.8	2.1	6.1770	36	79	1,095	68	989	95.4	95.4	95.4	0.71	0.8	0.83	241
87	160	220	315L	157.26	6.7	2.2	2.3	7.0805	25	55	1,235	68	991	94.9	95.5	95.6	0.69	0.79	0.83	291
88	185	250	315L	182.01	6.6	2.2	2.4	8.4402	28	62	1,364	68	990	95.2	95.7	95.7	0.68	0.78	0.82	340
89	200	270	355M/L	196.37	5.3	1.7	2.2	7.1880	39	86	1,405	73	992	94.2	95.2	95.8	0.61	0.72	0.77	391
90	250	340	355M/L	245.22	6.0	2.0	2.4	9.7095	32	70	1,642	73	993	94.4	95.4	95.8	0.6	0.71	0.77	489
91	315	430	355M/L	308.66	6.9	2.3	2.6	12.8940	28	62	1,933	73	994	94.2	95.3	95.8	0.6	0.72	0.77	616
VIII poles																				
92	4	5.5	160M	5.31	6.4	1.6	2.5	0.1261	14	31	100	59	734	81.4	83.8	84.8	0.52	0.66	0.74	9.2
93	5.5	7.5	160M	7.31	6.5	1.8	2.6	0.1821	12	26	118	59	733	83.6	85.5	86.2	0.52	0.65	0.74	12.5
94	7.5	10	160L	9.99	6.3	1.7	2.5	0.2274	10	22	142	59	731	86.7	87.3	87.3	0.54	0.68	0.76	16.3
95	11	15	180L	14.68	6.3	1.9	2.6	0.2523	16	35	186	63	730	87.4	88.4	88.6	0.51	0.64	0.73	24.6
96	15	20	200M/L	19.88	4.7	1.9	2.2	0.3785	38	84	253	64	735	87.9	89.2	89.6	0.48	0.6	0.68	35.5
97	18.5	25	W225S/M	24.75	4.1	1.9	2	0.3638	52	114	262	64	728	89.5	90.1	90.1	0.48	0.6	0.67	44.2
98	22	30	225S/M	29.23	6.3	1.8	2.2	0.6107	21	46	325	64	733	89.5	90.5	90.6	0.53	0.66	0.73	48
99	30	40	250S/M	39.76	5.8	1.8	2.3	0.9228	18	40	419	64	735	90.7	91.2	91.3	0.56	0.69	0.75	63.2
100	37	50	W280S/M	49.17	6	1.7	2.3	1.1234	17	37	480	64	733	91.4	91.7	91.8	0.57	0.7	0.76	76.6
101	45	60	W280S/M	59.63	6.5	2	2.6	1.3642	14	31	532	64	735	91.2	91.8	92.2	0.53	0.66	0.74	95.2
102	55	75	W315S/M	72.2	5.8	1.7	2.2	3.107	31	68	797	59	742	93.3	93.7	93.7	0.58	0.7	0.75	113
103	75	100	W315S/M	98.72	5.8	1.7	2.1	3.5835	24	53	878	59	740	93.1	93.1	93.1	0.58	0.7	0.75	155
104	90	125	W315S/M	118.3	6.2	1.8	2.2	4.4657	24	53	984	59	741	93.4	93.4	93.4	0.6	0.71	0.76	183
105	110	150	315L	144.98	5.2	1.6	1.8	6.9907	42	92	1,218	68	739	93.7	93.7	93.7	0.68	0.77	0.8	212
106	132	175	355M/L	173.27	5.4	1.3	1.9	8.3444	32	70	1,295	70	742	94	94	94	0.66	0.75	0.79	257
107	160	220	355M/L	209.74	6.2	1.6	2.2	9.8944	27	59	1,406	70	743	93.8	94.3	94.3	0.59	0.71	0.76	322
108	185	250	355M/L	242.19	6.6	1.8	2.4	11.9611	27	59	1,551	70	744	94.1	94.5	94.5	0.59	0.71	0.76	372
109	200	270	355M/L	261.83	6.6	1.8	2.3	12.9945	28	62	1,625	70	744	94.3	94.6	94.6	0.61	0.72	0.77	396

Electrical tables

W20 Marine - Super Premium Efficiency - 50 Hz - IE4 - 400 V - S1

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I _L /I _N	Locked rotor torque T _L /T _N	Breakdown torque T _b /T _N	Inertia J (kgm ²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	Rated speed (rpm)	400 V						Full load current I _N (A)
														% of full load			Power factor			
	kW	HP							Efficiency					Power factor						
									50	75				100	50	75	100			
II poles																				
110	75	100	W280S/M	24.64	8.3	3.2	3.4	0.4568	32	70	520	74	2,965	93.9	94.7	95.6	0.76	0.84	0.87	130.16
111	90	125	W280S/M	29.52	8.8	3.4	3.4	0.5414	20	44	565	74	2,970	94.2	95	95.8	0.78	0.85	0.88	154.09
112	110	150	W315S/M	35.98	8.1	2.4	3	1.2443	20	44	815	77	2,978	94	95	96	0.78	0.85	0.88	187.94
113	132	175	W315S/M	43.19	7.8	2.2	2.9	1.4664	23	51	875	77	2,977	94.7	95.5	96.2	0.8	0.87	0.89	222.53
114	160	220	315S/M	52.24	7	2.1	2.7	2.2447	37	81	1,015	77	2,983	95.1	95.8	96.3	0.8	0.87	0.88	272.51
115	200	270	315S/M	65.24	8.5	2.4	3.3	2.7685	23	51	1,115	77	2,986	95	95.9	96.5	0.78	0.85	0.88	339.94
116	250	340	315L	81.55	8.8	2.9	3.2	3.5916	18	40	1,330	78	2,986	95.1	96.1	96.5	0.79	0.86	0.89	420.15
117	315	430	355M/L	102.78	7.6	2.4	2.4	5.2547	31	68	1,700	80	2,985	95.4	96	96.5	0.82	0.87	0.89	529.39
118	355	480	355M/L	115.72	8.7	2.7	3	6.0053	23	51	1,825	80	2,988	95.3	96	96.5	0.81	0.87	0.89	596.61
IV poles																				
119	75	100	W280S/M	49.19	8	3.4	3.5	1.0757	31	68	560	64	1,485	95	95.6	96	0.69	0.79	0.83	135.86
120	90	125	W280S/M	59.03	7.9	3.6	3.6	1.2102	16	35	595	64	1,485	95.1	95.7	96.1	0.64	0.76	0.81	166.88
121	110	150	W315S/M	72	7.7	2.7	3	2.5962	16	35	890	71	1,488	95.2	95.8	96.3	0.66	0.77	0.82	201.06
122	132	175	W315S/M	86.4	8	2.9	3.1	2.8253	17	37	925	71	1,488	95.3	95.9	96.4	0.66	0.76	0.82	241.03
123	160	220	315S/M	104.45	7.8	3	3	4.2191	33	73	1,115	71	1,492	95.5	96.2	96.6	0.73	0.82	0.86	277.99
124	200	270	315S/M	130.65	7.7	3	2.8	5.3294	29	64	1,255	71	1,491	95.8	96.4	96.7	0.76	0.84	0.87	343.13
125	250	340	315L	163.53	6.9	2.6	2.6	5.6364	26	57	1,365	73	1,489	96.1	96.6	96.7	0.75	0.83	0.86	428.92
126	315	430	315L	205.91	7.9	3.1	2.8	6.8521	18	40	1,505	73	1,490	96	96.5	96.7	0.74	0.83	0.86	546.72
127	355	480	355M/L	231.75	7.5	2.9	2.9	11.0972	20	44	1,930	78	1,492	95.3	96.2	96.7	0.72	0.8	0.84	630.81
VI poles																				
128	75	100	W315S/M	73.71	7.7	2.4	2.7	3.24019	23	51	836	65	991	94.6	95.2	95.4	0.64	0.75	0.8	142
129	90	125	W315S/M	88.46	7.8	2.5	2.8	3.71376	20	44	895	65	991	94.7	95.3	95.6	0.6	0.72	0.78	174
130	110	150	W315S/M	108.22	8.1	2.5	2.7	4.61658	19	42	1,002	65	990	95.1	95.5	95.8	0.65	0.76	0.81	205
131	132	175	315L	129.47	7.6	2.6	2.8	6.58611	32	70	1,196	68	993	94.5	95.5	96	0.6	0.72	0.79	251
132	160	220	315L	156.94	7.7	2.7	2.9	8.13117	30	66	1,336	68	993	94.9	95.7	96.2	0.61	0.73	0.79	304
133	200	270	355M/L	195.98	6	2	2.5	8.91495	46	101	1,566	73	994	94.4	95.5	96.3	0.58	0.7	0.76	394
134	250	340	355M/L	245.22	5.9	2	2.4	11.23761	47	103	1,790	73	993	94.8	95.8	96.5	0.62	0.73	0.78	479
135	315	430	355M/L	309.28	5.6	1.9	2.2	12.95232	40	88	1,955	73	992	95	95.9	96.6	0.63	0.74	0.78	603
VIII poles																				
136	75	100	W315S/M	98.45	5.9	1.7	2.1	3.5835	19	42	878	59	742	93.7	94.1	94.2	0.58	0.7	0.75	205
137	90	125	W315S/M	118.3	6.2	1.9	2.3	4.4657	32	70	984	59	741	94	94.3	94.4	0.6	0.71	0.76	251
138	110	150	315L	144.2	7.2	2.3	2.8	7.006	30	66	1,218	68	743	93.4	94.5	94.7	0.54	0.67	0.73	304
139	132	175	355M/L	173.27	5.4	1.3	1.9	8.3444	62	136	1,295	70	742	94.1	94.7	94.9	0.66	0.75	0.79	351
140	160	220	355M/L	209.74	6.2	1.6	2.2	9.8944	46	101	1,406	70	743	93.8	94.8	95.1	0.59	0.71	0.76	394
141	200	270	355M/L	261.83	6.6	1.8	2.3	12.9945	40	88	1,625	70	744	94.3	95.2	95.4	0.61	0.72	0.77	603

W20 Marine - Premium Efficiency - 60 Hz - IE3 - 460 V - S1

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/In	Locked rotor torque TI/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	Rated speed (rpm)	460 V							Full load current In (A)
														% of full load							
	kW	HP							Efficiency					Power factor							
									50	75				100	50	75	100				
II poles																					
1	0.12	0.16	63M	0.03	7.1	9.0	9.1	0.0002	28	62	6.3	56	3,490	47.8	57.2	62.0	0.34	0.42	0.49	0.50	
2	0.18	0.25	63M	0.05	6.5	6.1	6.1	0.0002	20	44	6.3	56	3,460	56.0	64.4	65.6	0.41	0.51	0.60	0.57	
3	0.25	0.33	63M	0.07	5.7	4.3	4.1	0.0002	20	44	6.3	56	3,405	63.9	69.5	69.5	0.50	0.63	0.72	0.63	
4	0.37	0.5	71M	0.10	7.6	3.9	4.3	0.0004	16	35	8.1	61	3,475	67.6	73.4	73.4	0.54	0.66	0.75	0.84	
5	0.55	0.75	71M	0.15	8.1	4.6	4.4	0.0004	20	44	9	61	3,460	74.2	76.8	76.8	0.58	0.71	0.79	1.14	
6	0.75	1	80M	0.21	8.3	2.9	4.2	0.0009	8	18	12.2	65	3,500	77.0	77.0	77.0	0.57	0.71	0.79	1.55	
7	1.1	1.5	80M	0.31	9.0	3.4	4.5	0.0011	8	18	13.9	65	3,500	80.9	84.0	84.0	0.59	0.72	0.81	2.03	
8	1.5	2	90S	0.42	10.8	4.3	4.4	0.001	12	26	17.4	65	3,505	82.2	85.0	85.5	0.65	0.77	0.83	2.65	
9	2.2	3	90L	0.61	11.9	5.2	4.9	0.0024	12	26	21.4	65	3,520	84.3	86.5	86.5	0.70	0.80	0.86	3.71	
10	3	4	100L	0.83	11.9	3.5	5.1	0.005	10	22	30.3	78	3,535	85.2	87.5	88.5	0.73	0.83	0.88	4.83	
11	4	5.5	112M	1.10	12.0	3.5	4.7	0.0063	8	18	35.8	78	3,540	87.3	88.5	88.5	0.78	0.86	0.90	6.30	
12	5.5	7.5	132S/M	1.51	12.2	3.9	4.6	0.0163	16	35	56	78	3,550	87.2	89.3	89.5	0.81	0.87	0.90	8.57	
13	7.5	10	132S/M	2.06	12.2	4.1	4.4	0.0218	23	51	68	78	3,545	89.3	90.2	90.2	0.84	0.90	0.92	11.3	
14	11	15	160M	3.01	9.0	3.1	3.8	0.0404	12	26	110	72	3,555	89.2	90.9	91.0	0.64	0.76	0.82	18.5	

Electrical tables

W20 Marine - Premium Efficiency - 60 Hz - IE3 - 460 V - S1

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	460 V								Full load current In (A)
													Rated speed (rpm)	% of full load							
	Efficiency								Power factor												
	50	75							100	50				75	100						
II poles																					
15	15	20	160M	4.11	9.2	3.3	4.2	0.0514	8	18	120	72	3,555	90.5	91.0	91.0	0.66	0.78	0.84	24.6	
16	18.5	25	160L	5.06	9.8	4.0	4.7	0.0625	9	20	135	72	3,560	90.9	91.7	91.7	0.64	0.76	0.83	30.5	
17	22	30	180M	6.01	9.1	2.8	4.0	0.0919	8	18	165	72	3,566	91.3	91.7	91.7	0.67	0.78	0.83	36.3	
18	30	40	200M/L	8.18	8.4	3.5	3.7	0.1611	16	35	230	77	3,570	91.3	92.4	92.4	0.68	0.79	0.83	49.1	
19	37	50	200M/L	10.11	8.6	3.6	3.7	0.1865	12	26	250	77	3,565	91.9	93.0	93.0	0.69	0.79	0.84	59.5	
20	45	60	225S/M	12.28	8.5	2.9	3.8	0.2601	12	26	340	79	3,570	91.7	93.3	93.6	0.66	0.77	0.83	72.7	
21	55	75	250S/M	15.01	8.6	3.2	3.7	0.3384	16	35	415	79	3,570	92.0	93.5	93.6	0.68	0.79	0.84	87.8	
22	75	100	W280S/M	20.46	8.3	3.3	3.4	0.5075	17	37	520	79	3,570	93.3	94.1	94.1	0.78	0.85	0.88	114	
23	90	125	W280S/M	24.59	8.7	3.2	3.5	0.4568	26	57	520	79	3,565	93.7	94.7	95.0	0.74	0.83	0.87	137	
24	110	150	W315S/M	29.96	7.9	2.0	2.8	0.9776	30	66	745	81	3,576	93.3	94.6	95.0	0.76	0.84	0.87	167	
25	132	175	W315S/M	35.95	8.4	2.2	2.9	1.1998	26	57	800	81	3,576	94.0	95.1	95.4	0.79	0.85	0.88	197	
26	160	220	W315S/M	43.56	8.5	2.4	2.9	1.7331	28	62	945	81	3,578	94.7	95.4	95.4	0.82	0.88	0.89	237	
27	185	250	315S/M	50.26	8.5	2.7	3.3	2.6937	34	75	1,100	81	3,585	95.2	95.8	95.8	0.79	0.86	0.89	272	
28	200	270	315S/M	54.32	8.5	2.7	3	2.6937	30	66	1,100	81	3,586	95.4	95.8	95.8	0.79	0.86	0.89	294	
29	250	340	315L	67.90	8.7	3.1	2.9	3.4245	25	55	1,300	82	3,586	94.8	95.8	95.8	0.81	0.87	0.89	368	
30	315	430	355M/L	85.56	8.9	3.0	3.0	5.1474	36	79	1,680	87	3,586	95.4	95.8	95.8	0.82	0.87	0.89	464	
31	355	480	355M/L	96.34	9.9	3.2	3.6	6.0053	30	66	1,820	87	3,589	95.4	95.8	95.8	0.79	0.86	0.88	529	
IV poles																					
32	0.12	0.16	63M	0.07	4.0	3.5	3.6	0.0002	32	70	6.1	55	1,705	54.3	62.5	66.0	0.35	0.44	0.53	0.43	
33	0.18	0.25	63M	0.10	4.1	3.7	3.4	0.0002	28	62	6.2	55	1,695	52.7	61.3	69.5	0.34	0.44	0.53	0.61	
34	0.25	0.33	71M	0.14	5.8	2.9	3.6	0.0007	24	53	8.2	59	1,730	68.5	73.4	73.4	0.41	0.53	0.63	0.68	
35	0.37	0.5	71M	0.21	5.8	3.2	3.4	0.0007	28	62	9	59	1,715	75.3	78.2	78.2	0.45	0.59	0.68	0.87	
36	0.55	0.75	80M	0.31	7.6	3.4	4.1	0.0021	20	44	11.9	59	1,745	77.2	81.1	81.1	0.49	0.62	0.72	1.18	
37	0.75	1	80M	0.42	7.7	3.4	4	0.0026	20	44	13.5	59	1,740	80.4	83.4	83.5	0.52	0.66	0.75	1.50	
38	1.1	1.5	90S	0.62	7.9	3.9	4.2	0.003	25.5	56	16.8	59	1,745	82.5	85.3	86.5	0.5	0.63	0.73	2.19	
39	1.5	2	90L	0.83	8.8	4.2	4.7	0.0045	16	35	20.9	59	1,750	83.6	86.1	86.5	0.51	0.65	0.74	2.94	
40	2.2	3	100L	1.22	9.9	4.4	4.8	0.0081	16	35	30.5	67	1,755	86.4	88.4	89.5	0.53	0.67	0.75	4.11	
41	3	4	100L	1.67	9.2	4.6	4.6	0.0081	17	37	30.4	67	1,750	85.8	87.8	89.5	0.52	0.66	0.75	5.61	
42	4	5.5	112M	2.21	9.6	4.7	5.1	0.0127	12	26	38.5	67	1,760	87.4	89.2	89.5	0.51	0.65	0.74	7.58	
43	5.5	7.5	132S/M	3.04	10	4	3.9	0.037	24	53	69	67	1,765	90.2	91.3	91.7	0.64	0.76	0.82	9.2	
44	7.5	10	132S/M	4.13	10.6	4.8	4.4	0.0423	16	35	75	67	1,770	90.1	91.3	91.7	0.61	0.73	0.8	12.8	
45	11	15	160M	6.02	8.6	3.3	4	0.1048	8	18	115	63	1,780	90.5	91.9	92.4	0.58	0.71	0.78	19.2	
46	15	20	160L	8.21	8.6	3.6	3.9	0.1467	8	18	145	63	1,779	91.9	92.9	93	0.62	0.74	0.81	25.0	
47	18.5	25	180M	10.15	8.5	3.6	3.7	0.174	12	26	175	65	1,775	92.1	93.2	93.6	0.62	0.75	0.81	30.6	
48	22	30	180L	12.05	8.8	4.3	4.4	0.2088	8	18	206.4	65	1,778	91.9	93.2	93.6	0.58	0.71	0.8	36.9	
49	30	40	200M/L	16.41	8.4	3.4	3.8	0.3074	8	18	256.03	65	1,781	93.2	94.1	94.1	0.63	0.75	0.81	49.4	
50	37	50	W225S/M	20.23	8.4	3.2	3.9	0.3743	8	18	280	65	1,781	93	94	94.5	0.64	0.75	0.81	60.7	
51	45	60	225S/M	24.57	8.4	3.2	3.6	0.5406	22	48	362.46	67	1,784	93.2	94.4	95	0.63	0.75	0.8	74.3	
52	55	75	250S/M	29.98	8.4	3.2	3.5	0.7756	12	26	445.42	68	1,787	93.5	94.5	95.4	0.62	0.74	0.8	90	
53	75	100	W280S/M	40.95	8.5	3.3	3.3	1.0791	18	40	548.1	68	1,784	94.5	95.2	95.4	0.69	0.8	0.84	117	
54	90	125	W280S/M	49.08	8.5	3.7	3.7	1.0116	20	44	550	68	1,786	94.5	95.4	95.4	0.64	0.75	0.81	146	
55	110	150	W315S/M	59.96	7.6	2.5	2.9	1.909	16	35	780	75	1,787	94.8	95.5	95.8	0.63	0.74	0.79	182	
56	132	175	W315S/M	71.95	7.8	2.5	2.8	2.4435	23	51	829.25	75	1,787	95.3	95.9	96.2	0.66	0.76	0.81	213	
57	160	220	W315S/M	87.21	7.9	2.8	2.9	3.2835	23	51	990	75	1,787	95.7	96.2	96.2	0.68	0.78	0.82	255	
58	185	250	315S/M	100.61	8.2	3.1	3.1	3.997	32	70	1,080	75	1,791	95.5	96.2	96.2	0.71	0.81	0.85	284	
59	200	270	315S/M	108.71	8.4	3.2	3.2	4.3301	30	66	1,125	75	1,792	95.5	96.2	96.2	0.7	0.8	0.84	311	
60	250	340	315L	135.96	8.2	3.2	3.1	5.3048	26	57	1,310	77	1,791	95.4	96.2	96.2	0.71	0.8	0.85	384	
61	315	430	315L	171.21	8.8	3.6	3.3	6.8521	22	48	1,622.59	77	1,792	95.7	96.2	96.2	0.7	0.8	0.85	484	
62	355	480	355M/L	192.95	8.1	2.8	2.9	10.5603	31	68	1,840	81	1,792	95.9	96.2	96.2	0.71	0.8	0.84	551	
VI poles																					
63	0.18	0.25	71M	0.15	3.9	2.6	2.8	0.0008	45	99	8	59	1,140	56	63.8	67.5	0.37	0.48	0.57	0.59	
64	0.25	0.33	80M	0.21	4.7	2.9	3.4	0.0016	50	110	10	59	1,155	61.2	68.5	71.4	0.36	0.47	0.56	0.78	
65	0.37	0.5	80M	0.31	4.8	2.4	2.9	0.0021	48	106	12	59	1,155	69.4	74.6	75.3	0.41	0.53	0.63	0.98	
66	0.55	0.75	90S	0.46	5.5	2.7	3	0.0033	62	136	16	59	1,160	76.8	80.6	81.7	0.41	0.53	0.63	1.34	
67	0.75	1	90S	0.64	5.2	2.6	2.7	0.0033	36	79	17	59	1,150	77	80.3	82.5	0.43	0.56	0.65	1.76	
68	1.1	1.5	100L	0.92	8.4	3.9	3.9	0.0081	40	88	30	67	1,165	81.9	84.7	87.5	0.52	0.66	0.74	2.13	
69	1.5	2	112M	1.25	7.1	3	3.7	0.0195	36	79	37	67	1,170	83.6	86.2	88.5	0.41	0.55	0.64	3.32	

Electrical tables

W20 Marine - Premium Efficiency - 60 Hz - IE3 - 460 V - S1

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	Rated speed (rpm)	460 V						Full load current In (A)
														% of full load						
	kW	HP							Efficiency					Power factor						
									50	75				100	50	75	100			
VI poles																				
70	2.2	3	132S/M	1.81	11.2	3.1	3.9	0.0605	48	106	74	67	1,182	85.6	88	89.5	0.62	0.73	0.8	3.86
71	3	4	132S/M	2.48	11	3.2	3.8	0.0656	48	106	78	67	1,180	86.6	88.5	89.5	0.63	0.74	0.8	5.26
72	4	5.5	132S/M	3.3	11.8	3.9	4.3	0.0656	20	44	78	67	1,181	86.4	88.5	89.5	0.59	0.71	0.78	7.19
73	5.5	7.5	160M	4.52	9.1	2.4	3.4	0.1708	15	33	115	59	1,186	88.7	90.1	91	0.6	0.73	0.8	9.5
74	7.5	10	160M	6.17	8.8	2.3	3.1	0.1821	11	24	119	59	1,184	89.6	90.5	91	0.64	0.76	0.83	12.5
75	11	15	160L	9.08	9.0	2.4	3.3	0.1821	6	13	133	59	1,180	91	91.7	91.7	0.64	0.76	0.82	18.8
76	15	20	180L	12.37	9.2	2.8	3.8	0.2854	13	29	187	64	1,180	90.8	91.7	91.7	0.56	0.7	0.77	26.7
77	18.5	25	200M/L	15.22	6.2	2.3	2.9	0.3477	32	70	226	64	1,181	90.9	92.4	93	0.5	0.64	0.72	34.7
78	22	30	200M/L	18.16	6.3	2.3	2.8	0.2892	28	62	233	64	1,180	91.4	92.7	93	0.52	0.66	0.74	40.1
79	30	40	W225S/M	24.70	6.9	2.4	2.9	0.4209	38	84	287	64	1,183	92.4	93.5	94.1	0.56	0.68	0.75	53.4
80	37	50	250S/M	30.36	8.6	2.8	3.6	1.1565	16	35	470	67	1,187	92.9	93.8	94.1	0.64	0.75	0.81	60.9
81	45	60	W280S/M	36.96	8.4	2.5	3.2	1.1565	17	37	489	67	1,186	93.7	94.3	94.5	0.63	0.75	0.81	73.8
82	55	75	W280S/M	45.13	9.0	3.3	3.8	1.6749	15	33	533	67	1,187	93.6	94.4	94.5	0.59	0.72	0.79	92.5
83	75	100	W315S/M	61.34	7.7	2.4	3.0	4.2029	24	53	926	70	1,191	94.4	95	95	0.62	0.74	0.79	125
84	90	125	W315S/M	73.66	7.9	2.3	2.7	3.3546	24	53	848	70	1,190	95	95	95	0.7	0.79	0.83	143
85	110	150	W315S/M	90.03	7.9	2.4	2.8	4.1250	23	51	943	70	1,190	95.4	95.8	95.8	0.67	0.77	0.82	176
86	132	175	315S/M	107.95	6.3	2.1	2.3	6.1770	47	103	1095	70	1,191	95.8	95.8	95.8	0.69	0.79	0.82	211
87	160	220	315L	130.74	7.3	2.6	2.7	7.0805	31	68	1235	73	1,192	95.2	95.8	95.8	0.67	0.78	0.82	256
88	185	250	315L	151.17	7.2	2.7	2.8	8.4402	34	75	1364	73	1,192	95.5	95.8	95.8	0.66	0.76	0.81	299
89	200	270	355M/L	163.29	5.9	2.0	2.5	7.1880	49	108	1405	77	1,193	94.3	95.4	95.8	0.59	0.7	0.76	345
90	250	340	355M/L	203.94	6.5	2.3	2.7	9.7095	38	84	1642	77	1,194	94.4	95.5	95.8	0.57	0.69	0.75	437
91	315	430	355M/L	256.74	7.5	2.8	3.0	12.8940	36	79	1933	77	1,195	94.3	95.5	95.8	0.58	0.7	0.76	543
VIII poles																				
92	4	5.5	160M	4.39	7.7	1.9	3.1	0.1261	14	31	100	59	887	81.6	84.7	86.5	0.49	0.62	0.71	8.17
93	5.5	7.5	160M	6.05	8	2.1	3.2	0.1821	12	26	118	59	886	83.7	86.4	86.5	0.48	0.62	0.71	11.2
94	7.5	10	160L	8.25	7.8	2	3	0.2274	11	24	142	59	885	87.3	88.9	89.5	0.5	0.64	0.73	14.4
95	11	15	180L	12.15	7.3	2.2	3	0.2523	18	40	186	64	882	87.9	89.5	89.5	0.48	0.61	0.7	22
96	15	20	200M/L	16.53	5.4	2.1	2.5	0.3785	48	106	253	64	887	89	90.2	90.2	0.46	0.59	0.67	31.1
97	18.5	25	W225S/M	20.43	4.7	1.9	2.2	0.3638	66	145	262	64	882	90.2	90.2	90.2	0.46	0.59	0.66	39
98	22	30	225S/M	24.19	6.8	2	2.9	0.6107	26	57	325	64	886	90.1	91.4	91.7	0.5	0.63	0.7	43
99	30	40	250S/M	32.94	6.5	1.9	2.7	0.9228	22	48	419	67	887	91.5	91.7	91.7	0.54	0.66	0.73	56.3
100	37	50	W280S/M	40.67	6.6	2.1	2.7	1.1234	22	48	480	67	886	92.2	92.4	92.4	0.55	0.67	0.74	67.9
101	45	60	W280S/M	49.36	7.3	2.4	3.1	1.3642	18	40	532	67	888	91.9	92.4	92.4	0.51	0.64	0.72	84.9
102	55	75	W315S/M	59.99	6.5	1.9	2.4	3.107	35	77	797	63	893	93.3	94.2	94.5	0.57	0.69	0.74	98.7
103	75	100	W315S/M	81.89	6.6	1.9	2.3	3.5835	28	62	878	63	892	93.6	93.6	93.6	0.57	0.69	0.74	136
104	90	125	W315S/M	98.27	7.1	2.1	2.4	4.4657	27	59	984	63	892	94.1	94.1	94.1	0.59	0.7	0.75	160
105	110	150	315L	120.25	5.8	1.7	2.1	6.9907	51	112	1,218	71	891	94.1	94.1	94.1	0.65	0.75	0.79	186
106	132	175	355M/L	143.97	5.9	1.3	2.3	8.3444	38	84	1,295	75	893	94.3	94.5	94.5	0.64	0.74	0.79	222
107	160	220	355M/L	174.32	6.8	1.8	2.7	9.8944	32	70	1,406	75	894	94.1	94.5	94.5	0.58	0.7	0.76	280
108	185	250	355M/L	201.55	7.2	1.8	2.8	11.9611	31	68	1,551	75	894	94.3	95	95	0.58	0.7	0.76	322
109	200	270	355M/L	217.90	7.2	1.9	2.8	12.9945	32	70	1,625	75	894	94.5	95	95	0.6	0.71	0.77	343

W20 Marine - Super Premium Efficiency - 60 Hz - IE4 - 460 V - S1

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/I _n	Locked rotor torque T _L /T _n	Breakdown torque T _b /T _n	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	460 V							
													Rated speed (rpm)	% of full load						Full load current I _n (A)
	Efficiency								Power factor											
	50	75							100	50				75	100					
II poles																				
110	75	100	W280S/M	20.45	9.2	3.6	3.8	0.4568	35	77	520	79	3,572	93.4	94.6	95	0.73	0.82	0.86	115
111	90	125	W280S/M	24.54	9.5	3.7	3.9	0.5414	30	66	565	79	3,572	93.9	94.9	95.4	0.75	0.83	0.86	138
112	110	150	W315S/M	29.92	8.3	2.7	3.5	1.2443	28	62	815	81	3,581	94.2	95.4	95.4	0.76	0.84	0.87	166
113	132	175	W315S/M	35.91	8.4	2.6	3.3	1.4664	31	68	875	81	3,580	94.8	95.8	95.8	0.79	0.86	0.88	197
114	160	220	315S/M	43.48	8.4	2.5	3.2	2.2447	41	90	1,015	81	3,584	95.5	95.8	95.8	0.78	0.85	0.88	238
115	200	270	315S/M	54.31	9.5	2.9	3.9	2.7685	27	59	1,115	81	3,587	95.5	96.2	96.2	0.74	0.83	0.87	300
116	250	340	315L	67.87	9.9	3.3	3.8	3.5916	20	44	1,330	82	3,588	94.7	95.9	96.2	0.76	0.84	0.87	375
117	315	430	355M/L	85.56	8.8	3	3.1	5.2547	36	79	1,700	87	3,586	95.5	96.2	96.2	0.83	0.88	0.89	462
118	355	480	355M/L	96.34	9.9	3.2	3.6	6.0053	28	62	1,825	87	3,589	95.5	96.2	96.2	0.79	0.86	0.88	526

Electrical tables

W20 Marine - Super Premium Efficiency - 60 Hz - IE4 - 460 V - S1

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	Rated speed (rpm)	460 V						Full load current In (A)
														% of full load			Power factor			
	kW	HP							50	75				100	50	75	100			
IV poles																				
119	75	100	W280S/M	40.88	9.1	3.8	3.9	1.0757	34	75	560	68	1,787	94.9	95.8	96.2	0.63	0.75	0.81	121
120	90	125	W280S/M	49.05	9.1	4.2	4	1.2102	20	44	595	68	1,787	95	95.8	96.2	0.62	0.74	0.8	147
121	110	150	W315S/M	59.89	8.3	3.2	3.4	2.5962	24	53	890	75	1,789	95.3	96.1	96.2	0.61	0.73	0.8	179
122	132	175	W315S/M	71.87	8.4	3.3	3.4	2.8253	22	48	925	75	1,789	95.5	96.1	96.5	0.61	0.73	0.8	215
123	160	220	315S/M	86.96	8.9	3.5	3.5	4.2191	36	79	1115	75	1,792	95.6	96.4	96.5	0.7	0.8	0.84	248
124	200	270	315S/M	108.71	8.9	3.5	3.3	5.3294	34	75	1255	75	1,792	96.1	96.5	96.5	0.73	0.82	0.86	302
125	250	340	315L	135.96	8.3	3.2	2.9	5.6364	30	66	1365	77	1,791	95.8	96.4	96.8	0.73	0.82	0.86	377
126	315	430	315L	171.21	8.8	3.6	3.3	6.8521	21	46	1505	77	1,792	95.7	96.4	96.8	0.7	0.8	0.85	481
127	355	480	355M/L	192.84	8.3	3.4	3.2	11.0972	23	51	1930	81	1,793	95.9	96.6	96.8	0.69	0.79	0.83	555
VI poles																				
128	75	100	W315S/M	61.28	8.5	2.7	3.2	3.2402	28	62	836	69	1,192	94.7	95.4	95.8	0.62	0.73	0.79	124
129	90	125	W315S/M	73.54	8.6	2.8	3.4	3.7138	25	55	895	69	1,192	94.9	95.6	95.8	0.58	0.7	0.77	153
130	110	150	W315S/M	89.88	8.9	2.8	3.2	4.6166	24	53	1002	69	1,192	95.2	95.9	96.2	0.63	0.74	0.8	179
131	132	175	315L	107.77	8.2	3	3.3	6.5861	37	81	1196	73	1,193	94.4	95.5	96.2	0.58	0.71	0.77	224
132	160	220	315L	130.63	8.4	3.2	3.4	8.1312	35	77	1336	73	1,193	94.7	95.7	96.2	0.59	0.72	0.78	268
133	200	270	355M/L	163.15	6.6	2.4	2.9	8.915	54	119	1566	77	1,194	94.3	95.5	96.2	0.56	0.68	0.74	353
134	250	340	355M/L	203.94	6.5	2.3	2.7	11.2376	54	119	1790	77	1,194	94.8	95.8	96.5	0.59	0.7	0.76	428
135	315	430	355M/L	257.18	6.2	2.3	2.6	12.9523	49	108	1955	77	1,193	95.1	96	96.5	0.6	0.71	0.77	532
VIII poles																				
136	75	100	W315S/M	81.80	6.7	1.9	2.4	3.5835	24	53	878	63	893	93.7	94.5	94.5	0.57	0.69	0.74	179
137	90	125	W315S/M	98.16	7.1	2.2	2.6	4.4657	37	81	984	63	893	93.9	94.7	95	0.59	0.7	0.75	224
138	110	150	315L	119.84	8	2.7	3.3	7.006	35	77	1,218	71	894	93.1	94.6	95	0.52	0.65	0.72	268
139	132	175	355M/L	143.97	5.9	1.3	2.3	8.3444	71	156	1,295	75	893	94.3	95.2	95.4	0.64	0.74	0.79	309
140	160	220	355M/L	174.32	6.8	1.8	2.7	9.8944	54	119	1,406	75	894	94.1	95.2	95.4	0.58	0.7	0.76	353
141	200	270	355M/L	217.90	7.2	1.9	2.8	12.9945	49	108	1,625	75	894	94.5	95.4	95.4	0.6	0.71	0.77	532

W20 Marine - Premium Efficiency - 60 Hz - 440 V - S1

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	440 V							Full load current In (A)
													% of full load			Power factor				
	kW	HP							Efficiency				Power factor							
50	75	100							50	75			100							
II poles																				
1	0.16	0.22	63M	0.05	7.0	5.9	6.1	0.0002	21	46	6.3	56	3,460	57.0	57.5	62.0	0.43	0.53	0.62	0.55
2	0.24	0.32	63M	0.07	5.8	3.8	4.0	0.0002	20	44	6.3	56	3,405	62.0	62.0	64.0	0.52	0.64	0.73	0.67
3	0.34	0.46	63M	0.10	4.6	2.6	2.6	0.0002	16	35	6.3	56	3,285	64.0	64.0	70.0	0.64	0.77	0.84	0.76
4	0.5	0.68	71M	0.14	6.0	2.6	2.8	0.0004	16	35	8.1	61	3,415	70.0	70.0	72.0	0.68	0.80	0.86	1.06
5	0.74	0.99	71M	0.21	6.1	2.8	2.8	0.0004	16	35	9	61	3,380	72.0	72.0	74.0	0.72	0.83	0.88	1.49
6	1	1.36	80M	0.28	6.4	2.0	2.7	0.0009	8	18	12.2	65	3,450	74.0	74.0	78.5	0.71	0.82	0.88	1.90
7	1.5	2	80M	0.42	6.6	2.5	2.8	0.0011	8	18	13.9	65	3,440	78.5	78.5	81.0	0.74	0.84	0.89	2.73
8	2	2.7	90S	0.56	7.9	2.8	2.9	0.001	12	26	17.4	65	3,445	84.9	81.5	81.5	0.77	0.85	0.88	3.66
9	3	4	90L	0.84	8.2	3.6	3.1	0.0024	8	18	21.4	65	3,470	81.5	81.5	84.5	0.81	0.87	0.90	5.18
10	4.1	5.6	100L	1.14	8.2	2.3	3.2	0.005	8	18	30.3	78	3,500	84.5	84.5	84.5	0.83	0.89	0.92	6.92
11	5.4	7.3	112M	1.50	8.2	2.3	3.0	0.0063	8	18	35.8	78	3,505	84.5	84.5	86.0	0.86	0.90	0.92	8.96
12	7.4	9.9	132S/M	2.04	8.3	2.6	3.0	0.0163	16	35	56	78	3,525	86.0	86.0	87.5	0.86	0.90	0.92	12.06
13	10.1	13.7	132S/M	2.80	8.1	2.7	2.9	0.0218	22	48	68	78	3,510	87.5	87.5	87.5	0.88	0.91	0.92	16.5
14	14	19	160M	3.86	6.8	2.3	2.8	0.0404	8	18	110	72	3,530	87.5	87.5	88.5	0.76	0.84	0.88	23.6
15	19.5	26.5	160M	5.39	7.2	2.5	2.9	0.0514	6	13	120	72	3,525	88.5	88.5	89.5	0.78	0.86	0.89	32.1
16	24	32.6	160L	6.62	8.1	2.7	3.2	0.0625	7	15	135	72	3,530	89.5	89.5	89.5	0.77	0.85	0.88	40.0
17	27	37	180M	7.42	7.5	2.1	2.9	0.0919	6	13	165	72	3,545	89.5	89.5	90.2	0.78	0.85	0.88	44.6
18	37.5	51	200M/L	10.29	6.4	2.8	2.6	0.1611	12	26	230	77	3,550	90.2	90.2	91.5	0.78	0.85	0.87	61.8
19	46	63	200M/L	12.62	6.5	2.8	2.5	0.1865	8	18	250	77	3,550	91.5	91.5	91.7	0.78	0.85	0.87	75.7
20	56	76	225S/M	15.34	7.3	2.1	2.7	0.2601	8	18	340	79	3,555	91.7	91.7	92.4	0.78	0.85	0.88	90.4
21	68	92.3	250S/M	18.63	7.2	2.4	2.7	0.3384	12	26	415	79	3,555	92.4	92.4	93.0	0.79	0.86	0.88	109.0
22	90	125	W280S/M	24.69	6.9	2.5	2.5	0.5075	13	29	520	79	3,550	93.0	93.0	93.0	0.83	0.88	0.90	141
23	108	147	W280S/M	29.63	7.3	2.5	2.6	0.4568	19	42	520	79	3,550	93.0	93.0	93.0	0.82	0.87	0.89	171
24	129	176	W315S/M	35.23	5.8	1.7	2.3	0.9776	26	57	745	81	3,566	94.4	95.0	94.8	0.81	0.86	0.88	203
25	152	206	W315S/M	41.47	8.4	1.9	2.5	11.998	22	48	800	81	3,570	94.9	95.4	95.2	0.83	0.88	0.89	235

Electrical tables

W20 Marine - Premium Efficiency - 60 Hz - 440 V - S1

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/In	Locked rotor torque TI/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	Rated speed (rpm)	440 V						Full load current In (A)
														% of full load						
	kW	HP							Efficiency					Power factor						
									50	75				100	50	75	100			
II poles																				
26	186	252	W315S/M	50.75	6.5	1.9	2.3	17.331	23	51	945	81	3,570	94.1	94.1	94.1	0.86	0.89	0.90	288
27	215	292	315S/M	58.51	7.1	2.2	2.6	26.937	27	59	1,100	81	3,579	94.1	94.1	94.1	0.85	0.89	0.90	333
28	230	315	315S/M	62.58	7.7	2.2	2.7	26.937	25	55	1,100	81	3,580	95.7	95.8	95.8	0.83	0.88	0.9	350
29	288	391	315L	78.33	6.9	2.5	2.5	34.245	22	48	1,300	82	3,581	95.6	96.2	96.2	0.84	0.89	0.90	436
30	362	492	355M/L	98.46	7.5	2.4	2.4	51.474	30	66	1,680	87	3,581	94.1	94.1	94.1	0.86	0.90	0.91	559
31	415	564	355M/L	112.78	8.5	2.6	2.7	60.053	25	55	1,820	87	3,584	94.1	94.1	94.1	0.85	0.89	0.90	643
IV poles																				
32	0.16	0.22	63M	0.09	3.6	2.1	2.3	0.0002	36	79	6.1	55	1,665	62.0	62.0	66.0	0.44	0.57	0.67	0.47
33	0.24	0.32	63M	0.14	3.7	2.6	2.3	0.0002	28	62	6.2	55	1,635	66.0	66.0	68.0	0.44	0.58	0.68	0.68
34	0.34	0.46	71M	0.20	4.7	2.0	2.3	0.0007	24	53	8.2	59	1,695	68.0	68.0	70.0	0.54	0.68	0.77	0.83
35	0.5	0.68	71M	0.29	4.4	2.0	2.0	0.0007	24	53	9	59	1,665	70.0	70.0	74.0	0.59	0.73	0.80	1.11
36	0.74	0.99	80M	0.42	5.8	2.4	2.6	0.0021	20	44	11.9	59	1,715	74.0	74.0	77.0	0.62	0.75	0.82	1.54
37	1	1.36	80M	0.57	5.8	2.5	2.5	0.0026	20	44	13.5	59	1,705	77	77	79	0.66	0.78	0.84	1.98
38	1.5	2	90S	0.85	5.6	2.6	2.8	0.003	23	51	16.8	59	1,710	79	79	81.5	0.64	0.76	0.83	2.91
39	2	2.7	90L	1.14	6.6	3.1	3.1	0.0045	12	26	20.9	59	1,715	81.5	81.5	83	0.65	0.77	0.83	3.81
40	3	4	100L	1.69	7.2	2.8	3.1	0.0081	16	35	30.5	67	1,730	83	83	85	0.67	0.79	0.84	5.51
41	4.1	5.6	100L	2.33	6.6	2.7	2.8	0.0081	14	31	30.4	67	1,715	85	85	85	0.67	0.79	0.84	7.53
42	5.4	7.3	112M	3.03	7.1	3	3.2	0.0127	12	26	38.5	67	1,735	85	85	87	0.66	0.77	0.83	9.81
43	7.4	9.9	132S/M	4.12	7	2.9	2.7	0.037	24	53	69	67	1,750	87	87	87.5	0.75	0.83	0.86	12.9
44	10.1	13.7	132S/M	5.64	7.5	3	2.9	0.0423	12	26	75	67	1,745	87.5	87.5	88.5	0.73	0.82	0.85	17.6
45	14	19	160M	7.73	6.6	2.2	2.7	0.1048	8	18	115	63	1,765	88.5	88.5	89.5	0.7	0.8	0.84	24.4
46	19.5	26.5	160L	10.76	6.6	2.5	2.6	0.1467	8	18	145	63	1,765	89.5	89.5	90.5	0.73	0.82	0.86	32.9
47	24	32.6	180M	13.28	6.4	2.5	2.5	0.174	8	18	175	65	1,760	90.5	90.5	91	0.74	0.82	0.86	40.2
48	27	37	180L	14.86	7.6	3.1	3.1	0.2088	8	18	206.4	65	1,770	91	91	91.7	0.69	0.79	0.84	46.0
49	37.5	51	200M/L	20.64	6.8	2.2	2.6	0.3074	8	18	256.03	65	1,770	91.7	91.7	92.4	0.73	0.82	0.85	62.7
50	46	63	W225S/M	25.31	7	2.3	2.7	0.3743	8	18	280	65	1,770	92.4	92.4	93	0.74	0.82	0.85	76.4
51	56	76	225S/M	30.69	7	2.3	2.5	0.5406	18	40	362.46	67	1,777	93	93	93	0.73	0.81	0.85	93.0
52	68	92.3	250S/M	37.21	7.3	2.3	2.6	0.7756	8	18	445.42	68	1,780	93	93	93.2	0.72	0.81	0.85	113
53	90	125	W280S/M	49.33	8.5	2.5	2.5	1.0791	14	31	548.1	68	1,777	93.1	93.2	93.2	0.77	0.84	0.87	146
54	108	147	W280S/M	59.13	7.5	2.8	2.7	1.0116	16	35	550	68	1,779	93.2	93.2	93.5	0.73	0.82	0.85	178
55	132	175	W315S/M	72.23	5.9	1.8	2.1	1.909	12	26	780	75	1,780	93.5	93.5	94.5	0.71	0.8	0.83	221
56	158	215	W315S/M	86.41	6.1	2	2.2	2.4435	18	40	829.25	75	1,781	94.5	94.5	94.5	0.74	0.81	0.84	261
57	192	261	W315S/M	105	6.2	2.1	2.2	3.2835	18	40	990	75	1,781	94.5	94.5	94.5	0.75	0.83	0.85	314
58	220	300	315S/M	119.91	6.8	2.4	2.3	3.997	26	57	1080	75	1,787	94.5	94.5	94.5	0.79	0.85	0.87	351
59	240	326	315S/M	130.74	7	2.5	2.4	4.3301	24	53	1125	75	1,788	94.5	94.5	94.5	0.78	0.85	0.87	383
60	288	391	315L	156.8	6.8	2.6	2.5	5.3048	22	48	1310	77	1,789	96.1	96.2	96.2	0.75	0.83	0.86	457
61	345	470	315L	187.83	7.8	3.1	2.8	6.8521	20	44	1622.59	77	1,789	94.4	94.5	94.5	0.76	0.84	0.87	551
62	415	564	355M/L	225.94	6.2	2.1	2.2	10.5603	27	59	1840	81	1,789	94.5	94.5	94.5	0.78	0.84	0.86	670
VI poles																				
63	0.24	0.32	71M	0.21	3.4	1.7	1.7	0.0008	28	62	8	59	1,105	52.5	52.5	57.5	0.48	0.61	0.72	0.76
64	0.34	0.46	80M	0.29	4.1	1.7	2.2	0.0016	32	70	10	59	1,135	57.5	57.5	62	0.47	0.6	0.7	1.03
65	0.5	0.68	80M	0.43	3.8	1.7	1.8	0.0021	33	73	12	59	1,120	62	62	66	0.53	0.67	0.76	1.31
66	0.74	0.99	90S	0.64	4.2	1.7	1.8	0.0033	42	92	16	59	1,135	66	66	72	0.53	0.67	0.74	1.82
67	1	1.36	90S	0.87	3.8	1.7	1.8	0.0033	32	70	17	59	1,115	72	72	75	0.56	0.69	0.76	2.3
68	1.5	2	100L	1.28	6	2.5	2.5	0.0081	36	79	30	67	1,140	75	75	77	0.66	0.77	0.83	3.08
69	2	2.7	112M	1.69	5.4	2.2	2.5	0.0195	40	88	37	67	1,155	77	77	78.5	0.54	0.68	0.75	4.46
70	3	4	132S/M	2.5	7.6	2.1	2.5	0.0605	48	106	74	67	1,170	78.5	78.5	83.5	0.73	0.81	0.85	5.55
71	4.1	5.6	132S/M	3.43	7.4	2.2	2.5	0.0656	43	95	78	67	1,165	83.5	83.5	83.5	0.74	0.82	0.85	7.58
72	5.4	7.3	132S/M	4.51	8.2	2.5	2.8	0.0656	20	44	78	67	1,165	83.5	83.5	85	0.71	0.8	0.84	9.92
73	6.9	9.38	160M	5.71	7.3	1.6	2.6	0.1708	13	29	115	59	1,178	86	86	86	0.68	0.79	0.85	12.4
74	9	12.2	160M	7.46	7.1	1.6	2.4	0.1821	9	20	119	59	1,175	86	86	86	0.73	0.83	0.87	15.8
75	13.2	18	160L	10.99	6.8	1.8	2.4	0.1821	8	18	133	59	1,170	89.5	89.5	89.5	0.73	0.82	0.86	22.5
76	19	26	180L	15.82	7.0	1.9	2.6	0.2854	11	24	187	64	1,170	90.2	90.2	90.2	0.67	0.78	0.84	32.9
77	23	31	200M/L	19.14	4.8	1.6	2.1	0.3477	28	62	226	64	1,170	91	91	91	0.61	0.73	0.79	42.0
78	27.6	37.5	200M/L	22.98	4.7	1.7	1.9	0.2892	28	62	233	64	1,170	91.7	91.7	91.7	0.66	0.76	0.8	49.4

Electrical tables

W20 Marine - Premium Efficiency - 60 Hz - 440 V - S1

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	440 V						Full load current In (A)		
													Rated speed (rpm)	% of full load			Power factor				
	Efficiency								100	Power factor				100							
	50	75								50					75						
VI poles																					
79	37.5	51	W225S/M	31.22	5.0	1.7	2.0	0.4209	32	70	287	64	1,170	91.7	91.7	91.7	0.67	0.77	0.81	66.3	
80	46	63	250S/M	37.97	6.5	2.0	2.4	1.1565	14	31	470	67	1,180	91.7	91.7	91.7	0.72	0.81	0.85	77.4	
81	56	76	W280S/M	46.38	6.2	1.9	2.3	1.1565	14	31	489	67	1,176	92.1	92.1	92.1	0.74	0.82	0.85	93.9	
82	68.5	93	W280S/M	56.54	7.0	2.2	2.7	1.6749	11	24	533	67	1,180	93	93	93	0.71	0.81	0.85	114	
83	93.25	125	W315S/M	76.58	5.8	1.8	2.1	4.2029	20	44	926	70	1,186	93	93	93	0.72	0.8	0.83	159	
84	108	147	W315S/M	88.77	5.7	1.8	2.0	3.3546	22	48	848	70	1,185	94.1	94.1	94.1	0.77	0.83	0.85	177	
85	132	175	W315S/M	108.40	5.7	1.8	2.0	4.1250	21	46	943	70	1,186	94.1	94.1	94.1	0.75	0.82	0.84	219	
86	155	210	315S/M	127.19	5.0	1.6	1.7	6.1770	38	84	1,095	70	1,187	94.1	94.1	94.1	0.76	0.82	0.84	257	
87	168	228	315L	137.51	6.4	2.2	2.3	7.0805	31	68	1,235	73	1,190	94.1	94.1	94.1	0.72	0.81	0.84	279	
88	194	263	315L	158.79	6.3	2.3	2.4	8.4402	34	75	1,364	73	1,190	94.1	94.1	94.1	0.7	0.79	0.83	326	
89	240	326	355M/L	196.44	4.6	1.5	1.8	7.1880	41	90	1,405	77	1,190	94.1	94.1	94.1	0.69	0.77	0.8	418	
90	300	400	355M/L	245.34	5.2	1.8	2.0	9.7095	32	70	1,642	77	1,191	94.1	94.1	94.1	0.67	0.77	0.8	523	
91	378	513	355M/L	308.87	6.0	2.0	2.2	12.8940	31	68	1,933	77	1,192	94.1	94.1	94.1	0.68	0.78	0.81	651	
VIII poles																					
92	5	6.8	160M	5.54	5.8	1.3	2	0.1261	14	31	100	59	879	84	84	84	0.62	0.74	0.8	9.76	
93	6.9	9.38	160M	7.65	6	1.5	2.3	0.1821	11	24	118	59	879	85	85	85	0.58	0.71	0.78	13.7	
94	8.63	11.73	160L	9.57	6	1.5	2.3	0.2274	12	26	142	59	878	85	85	85	0.59	0.71	0.78	17.1	
95	13.2	18	180L	14.69	5.7	1.6	2.2	0.2523	17	37	186	64	875	88.5	88.5	88.5	0.57	0.7	0.76	25.8	
96	16.9	22.9	200M/L	18.71	4.5	1.9	2	0.3785	48	106	253	64	883	88.5	88.5	88.5	0.54	0.65	0.72	34.8	
97	21	28.5	W225S/M	23.30	3.9	1.5	1.8	0.3638	65	143	262	64	878	90.2	90.2	90.2	0.55	0.66	0.71	43	
98	27.6	37.5	225S/M	30.55	5.2	1.4	2	0.6107	22	48	325	64	880	90.2	90.2	90.2	0.61	0.72	0.77	52.1	
99	36	49	250S/M	39.89	5.1	1.4	1.9	0.9228	20	44	419	67	879	91	91	91	0.64	0.74	0.78	66.6	
100	44	59.7	W280S/M	48.70	5.2	1.6	2	1.1234	19	42	480	67	880	91	91	91	0.64	0.75	0.79	80.3	
101	54	73	W280S/M	59.77	5.7	1.8	2.2	1.3642	15	33	532	67	880	91.5	91.5	91.5	0.61	0.73	0.78	99.3	
102	66	90	W315S/M	72.31	5.1	1.4	1.8	3.107	30	66	797	63	889	92	92	92	0.66	0.75	0.78	121	
103	86	117	W315S/M	94.33	5.2	1.4	1.8	3.5835	26	57	878	63	888	92.5	92.5	92.5	0.65	0.74	0.78	156	
104	103	139	W315S/M	112.72	5.5	1.6	1.9	4.4657	26	57	984	63	890	92.5	92.5	92.5	0.67	0.75	0.78	187	
105	115.5	157	315L	126.54	5	1.4	1.8	6.9907	49	108	1,218	71	889	92.5	92.5	92.5	0.69	0.78	0.8	205	
106	138	188	355M/L	150.69	5.2	1.1	1.9	8.3444	38	84	1,295	75	892	92.5	92.5	92.5	0.69	0.78	0.81	242	
107	184	249.9	355M/L	200.91	5.6	1.4	2.1	9.8944	28	62	1,406	75	892	92.5	92.5	92.5	0.67	0.76	0.8	326	
108	212	288	355M/L	231.49	5.9	1.4	2.2	11.9611	28	62	1,551	75	892	92.5	92.5	92.5	0.67	0.76	0.8	376	
109	230	315	355M/L	251.14	5.8	1.5	2.1	12.9945	28	62	1,625	75	892	92.5	92.5	92.5	0.68	0.77	0.8	408	

W20 Marine - Super Premium Efficiency - 60 Hz - 440 V - S1

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/In	Locked rotor torque TI/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (Kg)	Sound dB (A)	440 V								Full load current In (A)
									Hot	Cold			Rated speed (rpm)	% of full load							
	Efficiency													Power factor							
	50	75												100	50	75	100				
II poles																					
110	90	125	W280S/M	24.62	7.8	2.7	2.9	0.4568	30	66	520	79	3,560	92.9	93	93	0.81	0.87	0.89	143	
111	108	147	W280S/M	29.55	8.1	2.9	2.9	0.5414	25	55	565	79	3,560	92.9	93	93	0.82	0.87	0.89	171	
112	132	175	W315S/M	35.96	7.2	2.1	2.7	1.2443	24	53	815	81	3,575	93	93	94.1	0.82	0.88	0.89	207	
113	158	215	W315S/M	43.11	7	2	2.5	1.4664	29	64	875	81	3,570	94.1	94.1	94.1	0.85	0.89	0.9	245	
114	191	260	315S/M	52.01	6.5	1.8	2.5	2.2447	34	75	1,015	81	3,577	94.1	94.1	94.1	0.84	0.88	0.89	299	
115	240	326	315S/M	65.28	7.9	2.2	2.9	2.7685	23	51	1,115	81	3,581	94	94.1	94.1	0.82	0.87	0.89	376	
116	290	394	315L	78.83	9.2	2.8	3.2	3.5916	19	42	1,330	82	3,583	94	94.1	94.1	0.83	0.88	0.9	449	
117	367	499	355M/L	99.82	7.4	2.4	2.4	5.2547	30	66	1,700	87	3,581	94.1	94.1	94.1	0.87	0.9	0.91	562	
118	415	565	355M/L	112.78	8.3	2.6	2.4	6.0053	23	51	1,825	87	3,584	94.1	94.1	94.1	0.84	0.88	0.88	658	
IV poles																					
119	90	125	W280S/M	49.22	8	2.8	2.8	1.0757	29	64	560	68	1,781	93.1	93.2	93.2	0.72	0.81	0.85	149	
120	108	147	W280S/M	59.1	8	3.1	2.9	1.2102	20	44	595	68	1,780	93.1	93.2	93.5	0.71	0.8	0.84	180	
121	132	175	W315S/M	72.03	7.2	2.4	2.6	2.5962	20	44	890	75	1,785	93.4	93.5	94.5	0.7	0.79	0.83	221	
122	158	215	W315S/M	86.26	7.2	2.5	2.6	2.8253	20	44	925	75	1,784	94.5	94.5	94.5	0.7	0.79	0.83	264	
123	191	260	315S/M	103.99	7.4	2.7	2.6	4.2191	35	77	1115	75	1,789	94.5	94.5	94.5	0.78	0.85	0.87	305	
124	240	326	315S/M	130.67	7.3	2.7	2.5	5.3294	32	70	1255	75	1,789	94.4	94.5	94.5	0.8	0.86	0.88	379	

Electrical tables

W20 Marine - Super Premium Efficiency - 60 Hz - 440 V - S1

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	Rated speed (rpm)	440 V						Full load current In (A)
									% of full load											
	Efficiency								Power factor											
	50	75							100	50				75	100					
IV poles																				
125	288	391	315L	156.89	7.5	2.6	2.4	5.6364	25	55	1,365	77	1,788	96	96.2	96.2	0.78	0.85	0.87	452
126	345	470	315L	187.83	7.8	3.1	2.8	6.8521	20	44	1,505	77	1,789	95.3	95.4	95.4	0.76	0.84	0.87	545
127	415	565	355M/L	225.82	6.9	2.7	2.4	11.0972	23	51	1,930	81	1,790	94.5	94.5	94.5	0.77	0.84	0.86	670
VI poles																				
128	94.2	128	W315S/M	77.23	6.1	1.9	2.2	3.2402	26	57	836	69	1,188	93	93	93	0.71	0.8	0.83	160
129	113	154	W315S/M	92.64	6.3	2	2.4	3.7138	23	51	895	69	1,188	94.1	94.1	94.1	0.68	0.78	0.82	192
130	138	188	W315S/M	113.24	6.4	2	2.3	4.6166	22	48	1,002	69	1,187	94.1	94.1	94.1	0.73	0.81	0.84	229
131	165	224	315L	135.05	6.2	2.2	2.4	6.5861	32	70	1,196	73	1,190	94.1	94.1	94.1	0.69	0.79	0.82	281
132	200	270	315L	163.70	6.4	2.3	2.4	8.1312	29	64	1,336	73	1,190	94.1	94.1	94.1	0.7	0.79	0.83	336
133	250	340	355M/L	204.28	5.1	1.6	2	8.915	48	106	1,566	77	1,192	94.1	94.1	94.1	0.67	0.76	0.8	436
134	300	400	355M/L	245.13	5.1	1.8	2	11.2376	48	106	1,790	77	1,192	94.1	94.1	94.1	0.68	0.77	0.8	523
135	378	513	355M/L	309.39	4.9	1.7	1.9	12.9523	40	88	1,955	77	1,190	94.1	94.1	94.1	0.69	0.78	0.81	651
VIII poles																				
136	86	117	W315S/M	94.33	5.2	1.4	1.8	3.5835	22	48	878	63	888	92.5	92.5	92.5	0.65	0.74	0.78	229
137	103	139	W315S/M	112.72	5.5	1.6	1.9	4.4657	32	70	984	63	890	92.5	92.5	92.5	0.67	0.75	0.78	281
138	127	173	315L	138.67	6.6	2.1	2.5	7.006	29	64	1,218	71	892	92.5	92.5	92.5	0.61	0.72	0.77	336
139	145	197	355M/L	158.51	4.9	1.1	1.8	8.3444	61	134	1,295	75	891	92.5	92.5	92.5	0.71	0.79	0.81	396
140	182	247	355M/L	198.73	5.7	1.3	2.1	9.8944	48	106	1,406	75	892	92.5	92.5	92.5	0.67	0.76	0.8	436
141	228	310	355M/L	248.96	5.9	1.5	2.2	12.9945	40	88	1,625	75	892	92.5	92.5	92.5	0.68	0.77	0.8	651

W20 Marine - Premium Efficiency - 60 Hz - 440 V - S2 60min

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/I _n	Locked rotor torque T _L /T _n	Breakdown torque T _b /T _n	Inertia J (kgm ²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	440 V								Full load current I _n (A)
													% of full load								
	Rated speed (rpm)	Efficiency							Power factor												
		50							75	100			50	75	100						
II poles																					
1	0.16	0.22	63M	0.05	7.0	5.9	6.1	0.0002	21	46	6.3	56	3,460	57.0	57.5	62.0	0.43	0.53	0.62	0.55	
2	0.24	0.32	63M	0.07	5.8	3.8	4.0	0.0002	20	44	6.3	56	3,405	62.0	62.0	64.0	0.52	0.64	0.73	0.67	
3	0.34	0.46	63M	0.10	4.6	2.6	2.6	0.0002	16	35	6.3	56	3,285	64.0	64.0	70.0	0.64	0.77	0.84	0.76	
4	0.5	0.68	71M	0.14	6.0	2.6	2.8	0.0004	16	35	8.1	61	3,415	70.0	70.0	72.0	0.68	0.80	0.86	1.06	
5	0.74	0.99	71M	0.21	6.1	2.8	2.8	0.0004	16	35	9	61	3,380	72.0	72.0	74.0	0.72	0.83	0.88	1.49	
6	1	1.36	80M	0.28	6.4	2.0	2.7	0.0009	8	18	12.2	65	3,450	74.0	74.0	78.5	0.71	0.82	0.88	1.90	
7	1.5	2	80M	0.42	6.6	2.5	2.8	0.0011	8	18	13.9	65	3,440	78.5	78.5	81.0	0.74	0.84	0.89	2.73	
8	2	2.7	90S	0.56	7.9	2.8	2.9	0.001	12	26	17.4	65	3,445	84.9	81.5	81.5	0.77	0.85	0.88	3.66	
9	3	4	90L	0.84	8.2	3.6	3.1	0.0024	8	18	21.4	65	3,470	81.5	81.5	84.5	0.81	0.87	0.90	5.18	
10	4.1	5.6	100L	1.14	8.2	2.3	3.2	0.005	8	18	30.3	78	3,500	84.5	84.5	84.5	0.83	0.89	0.92	6.92	
11	5.4	7.3	112M	1.50	8.2	2.3	3.0	0.0063	8	18	35.8	78	3,505	84.5	84.5	86.0	0.86	0.90	0.92	8.96	
12	7.4	9.9	132S/M	2.04	8.3	2.6	3.0	0.0163	16	35	56	78	3,525	86.0	86.0	87.5	0.86	0.90	0.92	12.06	
13	10.1	13.7	132S/M	2.80	8.1	2.7	2.9	0.0218	22	48	68	78	3,510	87.5	87.5	87.5	0.88	0.91	0.92	16.5	
14	14	19	160M	3.86	6.8	2.3	2.8	0.0404	8	18	110	72	3,530	87.5	87.5	88.5	0.76	0.84	0.88	23.6	
15	19.5	26.5	160M	5.39	7.2	2.5	2.9	0.0514	6	13	120	72	3,525	88.5	88.5	89.5	0.78	0.86	0.89	32.1	
16	24	32.6	160L	6.62	8.1	2.7	3.2	0.0625	7	15	135	72	3,530	89.5	89.5	89.5	0.77	0.85	0.88	40.0	
17	27	37	180M	7.42	7.5	2.1	2.9	0.0919	6	13	165	72	3,545	89.5	89.5	90.2	0.78	0.85	0.88	44.6	
18	37.5	51	200M/L	10.29	6.4	2.8	2.6	0.1611	12	26	230	77	3,550	90.2	90.2	91.5	0.78	0.85	0.87	61.8	
19	46	63	200M/L	12.62	6.5	2.8	2.5	0.1865	8	18	250	77	3,550	91.5	91.5	91.7	0.78	0.85	0.87	75.7	
20	56	76	225S/M	15.34	7.3	2.1	2.7	0.2601	8	18	340	79	3,555	91.7	91.7	92.4	0.78	0.85	0.88	90.4	
21	68	92.3	250S/M	18.63	7.2	2.4	2.7	0.3384	12	26	415	79	3,555	92.4	92.4	93.0	0.79	0.86	0.88	109.0	
22	90	125	W280S/M	24.69	6.9	2.5	2.5	0.5075	13	29	520	79	3,550	93.0	93.0	93.0	0.83	0.88	0.90	141	
23	108	147	W280S/M	29.63	7.3	2.5	2.6	0.4568	19	42	520	79	3,550	93.0	93.0	93.0	0.82	0.87	0.89	171	
24	129	176	W315S/M	35.23	5.8	1.7	2.3	0.9776	26	57	745	81	3,566	94.4	95.0	94.8	0.81	0.86	0.88	203	
25	152	206	W315S/M	41.47	8.4	1.9	2.5	1.1998	22	48	800	81	3,570	94.9	95.4	95.2	0.83	0.88	0.89	235	
26	186	252	W315S/M	50.75	6.5	1.9	2.3	1.7331	23	51	945	81	3,570	94.1	94.1	94.1	0.86	0.89	0.90	288	
27	215	292	315S/M	58.51	7.1	2.2	2.6	2.6937	27	59	1,100	81	3,579	94.1	94.1	94.1	0.85	0.89	0.90	333	
28	230	315	315S/M	62.58	7.7	2.3	2.8	2.6937	25	55	1,100	81	3,580	95.7	95.8	95.8	0.83	0.88	0.9	350	
29	288	391	315L	78.33	6.9	2.5	2.9	3.4245	21	46	1,300	82	3,581	95.6	96.2	96.2	0.84	0.89	0.90	436	
30	362	492	355M/L	98.46	7.5	2.4	2.4	5.1474	30	66	1,680	87	3,581	94.1	94.1	94.1	0.86	0.90	0.91	559	
31	415	564	355M/L	112.78	8.5	2.6	2.7	6.0053	25	55	1,820	87	3,584	94.1	94.1	94.1	0.85	0.89	0.90	643	

Electrical tables

W20 Marine - Premium Efficiency - 60 Hz - 440 V - S2 60min

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/In	Locked rotor torque TI/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	Rated speed (rpm)	440 V						Full load current In (A)
														% of full load			Power factor			
	kW	HP							Efficiency					Power factor						
									50	75				100	50	75	100			
IV poles																				
32	0.16	0.22	63M	0.09	3.6	2.1	2.3	0.0002	36	79	6.1	55	1,665	62.0	62.0	66.0	0.44	0.57	0.67	0.47
33	0.24	0.32	63M	0.14	3.7	2.6	2.3	0.0002	28	62	6.2	55	1,635	66.0	66.0	68.0	0.44	0.58	0.68	0.68
34	0.34	0.46	71M	0.20	4.7	2.0	2.3	0.0007	24	53	8.2	59	1,695	68.0	68.0	70.0	0.54	0.68	0.77	0.83
35	0.5	0.68	71M	0.29	4.4	2.0	2.0	0.0007	24	53	9	59	1,665	70.0	70.0	74.0	0.59	0.73	0.80	1.11
36	0.74	0.99	80M	0.42	5.8	2.4	2.6	0.0021	20	44	11.9	59	1,715	74.0	74.0	77.0	0.62	0.75	0.82	1.54
37	1	1.36	80M	0.57	5.8	2.5	2.5	0.0026	20	44	13.5	59	1,705	77	77	79	0.66	0.78	0.84	1.98
38	1.5	2	90S	0.85	5.6	2.6	2.8	0.003	23	51	16.8	59	1,710	79	79	81.5	0.64	0.76	0.83	2.91
39	2	2.7	90L	1.14	6.6	3.1	3.1	0.0045	12	26	20.9	59	1,715	81.5	81.5	83	0.65	0.77	0.83	3.81
40	3	4	100L	1.69	7.2	2.8	3.1	0.0081	16	35	30.5	67	1,730	83	83	85	0.67	0.79	0.84	5.51
41	4.1	5.6	100L	2.33	6.6	2.7	2.8	0.0081	14	31	30.4	67	1,715	85	85	85	0.67	0.79	0.84	7.53
42	5.4	7.3	112M	3.03	7.1	3	3.2	0.0127	12	26	38.5	67	1,735	85	85	87	0.66	0.77	0.83	9.81
43	7.4	9.9	132S/M	4.12	7	2.9	2.7	0.037	24	53	69	67	1,750	87	87	87.5	0.75	0.83	0.86	12.9
44	10.1	13.7	132S/M	5.64	7.5	3	2.9	0.0423	12	26	75	67	1,745	87.5	87.5	88.5	0.73	0.82	0.85	17.6
45	14	19	160M	7.73	6.6	2.2	2.7	0.1048	8	18	115	63	1,765	88.5	88.5	89.5	0.7	0.8	0.84	24.4
46	19.5	26.5	160L	10.76	6.6	2.5	2.6	0.1467	8	18	145	63	1,765	89.5	89.5	90.5	0.73	0.82	0.86	32.9
47	24	32.6	180M	13.28	6.4	2.5	2.5	0.174	8	18	175	65	1,760	90.5	90.5	91	0.74	0.82	0.86	40.2
48	27	37	180L	14.86	7.6	3.1	3.1	0.2088	8	18	206.4	65	1,770	91	91	91.7	0.69	0.79	0.84	46.0
49	37.5	51	200M/L	20.64	6.8	2.2	2.6	0.3074	8	18	256.03	65	1,770	91.7	91.7	92.4	0.73	0.82	0.85	62.7
50	46	63	W225S/M	25.31	7	2.3	2.7	0.3743	8	18	280	65	1,770	92.4	92.4	93	0.74	0.82	0.85	76.4
51	56	76	225S/M	30.69	7	2.3	2.5	0.5406	18	40	362.46	67	1,777	93	93	93	0.73	0.81	0.85	93.0
52	68	92.3	250S/M	37.21	7.3	2.3	2.6	0.7756	8	18	445.42	68	1,780	93	93	93.2	0.72	0.81	0.85	113
53	90	125	W280S/M	49.33	8.5	2.5	2.5	1.0791	14	31	548.1	68	1,777	93.1	93.2	93.2	0.77	0.84	0.87	146
54	108	147	W280S/M	59.13	7.5	2.8	2.7	1.0116	16	35	550	68	1,779	93.2	93.2	93.5	0.73	0.82	0.85	178
55	132	175	W315S/M	72.23	5.9	1.8	2.1	1.909	12	26	780	75	1,780	93.5	93.5	94.5	0.71	0.8	0.83	221
56	158	215	W315S/M	86.41	6.1	2	2.2	2.4435	18	40	829.25	75	1,781	94.5	94.5	94.5	0.74	0.81	0.84	261
57	192	261	W315S/M	105	6.2	2.1	2.2	3.2835	18	40	990	75	1,781	94.5	94.5	94.5	0.75	0.83	0.85	314
58	220	300	315S/M	119.91	6.8	2.4	2.3	3.997	26	57	1,080	75	1,787	94.5	94.5	94.5	0.79	0.85	0.87	351
59	240	326	315S/M	130.74	7	2.5	2.4	4.3301	24	53	1,125	75	1,788	94.5	94.5	94.5	0.78	0.85	0.87	383
60	288	391	315L	156.8	6.8	2.7	2.6	5.3048	22	48	1,310	77	1,789	96.1	96.2	96.2	0.75	0.83	0.86	457
61	345	470	315L	187.83	7.8	3.1	2.8	6.8521	20	44	1,622.59	77	1,789	94.4	94.5	94.5	0.76	0.84	0.87	551
62	415	564	355M/L	225.94	6.2	2.1	2.2	10.5603	27	59	1,840	81	1,789	94.5	94.5	94.5	0.78	0.84	0.86	670
VI poles																				
63	0.24	0.32	71M	0.21	3.4	1.7	1.7	0.0008	28	62	8	59	1,105	52.5	52.5	57.5	0.48	0.61	0.72	0.76
64	0.34	0.46	80M	0.29	4.1	1.7	2.2	0.0016	32	70	10	59	1,135	57.5	57.5	62	0.47	0.6	0.7	1.03
65	0.5	0.68	80M	0.43	3.8	1.7	1.8	0.0021	33	73	12	59	1,120	62	62	66	0.53	0.67	0.76	1.31
66	0.74	0.99	90S	0.64	4.2	1.7	1.8	0.0033	42	92	16	59	1,135	66	66	72	0.53	0.67	0.74	1.82
67	1	1.36	90S	0.87	3.8	1.7	1.8	0.0033	32	70	17	59	1,115	72	72	75	0.56	0.69	0.76	2.3
68	1.5	2	100L	1.28	6	2.5	2.5	0.0081	36	79	30	67	1,140	75	75	77	0.66	0.77	0.83	3.08
69	2	2.7	112M	1.69	5.4	2.2	2.5	0.0195	40	88	37	67	1,155	77	77	78.5	0.54	0.68	0.75	4.46
70	3	4	132S/M	2.5	7.6	2.1	2.5	0.0605	48	106	74	67	1,170	78.5	78.5	83.5	0.73	0.81	0.85	5.55
71	4.1	5.6	132S/M	3.43	7.4	2.2	2.5	0.0656	43	95	78	67	1,165	83.5	83.5	83.5	0.74	0.82	0.85	7.58
72	5.4	7.3	132S/M	4.51	8.2	2.5	2.8	0.0656	20	44	78	67	1,165	83.5	83.5	85	0.71	0.8	0.84	9.92
73	6.9	9.38	160M	5.71	7.3	1.6	2.6	0.1708	13	29	115	59	1,178	86	86	86	0.68	0.79	0.85	12.4
74	9	12.2	160M	7.46	7.1	1.6	2.4	0.1821	9	20	119	59	1,175	86	86	86	0.73	0.83	0.87	15.8
75	13.2	18	160L	10.99	6.8	1.8	2.4	0.1821	8	18	133	59	1,170	89.5	89.5	89.5	0.73	0.82	0.86	22.5
76	19	26	180L	15.82	7.0	1.9	2.6	0.2854	11	24	187	64	1,170	90.2	90.2	90.2	0.67	0.78	0.84	32.9
77	23	31	200M/L	19.14	4.8	1.6	2.1	0.3477	28	62	226	64	1,170	91	91	91	0.61	0.73	0.79	42.0
78	27.6	37.5	200M/L	22.98	4.7	1.7	1.9	0.2892	28	62	233	64	1,170	91.7	91.7	91.7	0.66	0.76	0.8	49.4
79	37.5	51	W225S/M	31.22	5.0	1.7	2.0	0.4209	32	70	287	64	1,170	91.7	91.7	91.7	0.67	0.77	0.81	66.3
80	46	63	250S/M	37.97	6.5	2.0	2.4	1.1565	14	31	470	67	1,180	91.7	91.7	91.7	0.72	0.81	0.85	77.4
81	56	76	W280S/M	46.38	6.2	1.9	2.3	1.1565	14	31	489	67	1,176	92.1	92.1	92.1	0.74	0.82	0.85	93.9
82	68.5	93	W280S/M	56.54	7.0	2.2	2.7	1.6749	11	24	533	67	1,180	93	93	93	0.71	0.81	0.85	114
83	93.25	125	W315S/M	76.58	5.8	1.8	2.1	4.2029	20	44	926	70	1,186	93	93	93	0.72	0.8	0.83	159
84	108	147	W315S/M	88.77	5.7	1.8	2.0	3.3546	22	48	848	70	1,185	94.1	94.1	94.1	0.77	0.83	0.85	177
85	132	175	W315S/M	108.40	5.7	1.8	2.0	4.1250	21	46	943	70	1,186	94.1	94.1	94.1	0.75	0.82	0.84	219
86	155	210	315S/M	127.19	5.0	1.6	1.7	6.1770	38	84	1095	70	1,187	94.1	94.1	94.1	0.76	0.82	0.84	257
87	168	228	315L	137.51	6.4	2.2	2.3	7.0805	31	68	1235	73	1,190	94.1	94.1	94.1	0.72	0.81	0.84	279
88	194	263	315L	158.79	6.3	2.3	2.4	8.4402	34	75	1364	73	1,190	94.1	94.1	94.1	0.7	0.79	0.83	326

Electrical tables

W20 Marine - Premium Efficiency - 60 Hz - 440 V - S2 60min

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/In	Locked rotor torque TI/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	Rated speed (rpm)	440 V						Full load current In (A)
														% of full load						
	kW	HP							Efficiency					Power factor						
									50	75				100	50	75	100			
VI poles																				
89	240	326	355M/L	196.44	4.6	1.5	1.8	7.1880	41	90	1,405	77	1,190	94.1	94.1	94.1	0.69	0.77	0.8	418
90	300	400	355M/L	245.34	5.2	1.8	2.0	9.7095	32	70	1,642	77	1,191	94.1	94.1	94.1	0.67	0.77	0.8	523
91	378	513	355M/L	308.87	6.0	2.0	2.2	12.8940	31	68	1,933	77	1,192	94.1	94.1	94.1	0.68	0.78	0.81	651
VIII poles																				
92	5	6.8	160M	5.54	5.8	1.3	2	0.1261	14	31	100	59	879	84	84	84	0.62	0.74	0.8	9.76
93	6.9	9.38	160M	7.65	6	1.5	2.3	0.1821	11	24	118	59	879	85	85	85	0.58	0.71	0.78	13.7
94	8.63	11.73	160L	9.57	6	1.5	2.3	0.2274	12	26	142	59	878	85	85	85	0.59	0.71	0.78	17.1
95	13.2	18	180L	14.69	5.7	1.6	2.2	0.2523	17	37	186	64	875	88.5	88.5	88.5	0.57	0.7	0.76	25.8
96	16.9	22.9	200M/L	18.71	4.5	1.9	2	0.3785	48	106	253	64	883	88.5	88.5	88.5	0.54	0.65	0.72	34.8
97	21	28.5	W225S/M	23.30	3.9	1.5	1.8	0.3638	65	143	262	64	878	90.2	90.2	90.2	0.55	0.66	0.71	43
98	27.6	37.5	225S/M	30.55	5.2	1.4	2	0.6107	22	48	325	64	880	90.2	90.2	90.2	0.61	0.72	0.77	52.1
99	36	49	250S/M	39.89	5.1	1.4	1.9	0.9228	20	44	419	67	879	91	91	91	0.64	0.74	0.78	66.6
100	44	59.7	W280S/M	48.70	5.2	1.6	2	1.1234	19	42	480	67	880	91	91	91	0.64	0.75	0.79	80.3
101	54	73	W280S/M	59.77	5.7	1.8	2.2	1.3642	15	33	532	67	880	91.5	91.5	91.5	0.61	0.73	0.78	99.3
102	66	90	W315S/M	72.31	5.1	1.4	1.8	3.107	30	66	797	63	889	92	92	92	0.66	0.75	0.78	121
103	86	117	W315S/M	94.33	5.2	1.4	1.8	3.5835	26	57	878	63	888	92.5	92.5	92.5	0.65	0.74	0.78	156
104	103	139	W315S/M	112.72	5.5	1.6	1.9	4.4657	26	57	984	63	890	92.5	92.5	92.5	0.67	0.75	0.78	187
105	115.5	157	315L	126.54	5	1.4	1.8	6.9907	49	108	1,218	71	889	92.5	92.5	92.5	0.69	0.78	0.8	205
106	138	188	355M/L	150.69	5.2	1.1	1.9	8.3444	38	84	1,295	75	892	92.5	92.5	92.5	0.69	0.78	0.81	242
107	184	249.9	355M/L	200.91	5.6	1.4	2.1	9.8944	28	62	1,406	75	892	92.5	92.5	92.5	0.67	0.76	0.8	326
108	212	288	355M/L	231.49	5.9	1.4	2.2	11.9611	28	62	1,551	75	892	92.5	92.5	92.5	0.67	0.76	0.8	376
109	230	315	355M/L	251.14	5.8	1.5	2.1	12.9945	28	62	1,625	75	892	92.5	92.5	92.5	0.68	0.77	0.8	408

W20 Marine - Super Premium Efficiency - 60 Hz - 440 V - S2 60min

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	Rated speed (rpm)	440 V						Full load current In (A)
														% of full load						
	kW	HP							Efficiency					Power factor						
									50	75				100	50	75	100			
II poles																				
110	90	125	W280S/M	24.62	7.8	2.7	2.9	0.4568	30	66	520	79	3,560	92.9	93	93	0.81	0.87	0.89	143
111	108	147	W280S/M	29.55	8.1	2.9	2.9	0.5414	25	55	565	79	3,560	92.9	93	93	0.82	0.87	0.89	171
112	132	175	W315S/M	35.96	7.2	2.1	2.7	1.2443	24	53	815	81	3,575	93	93	94.1	0.82	0.88	0.89	207
113	158	215	W315S/M	43.11	7	2	2.5	1.4664	29	64	875	81	3,570	94.1	94.1	94.1	0.85	0.89	0.9	245
114	191	260	315S/M	52.01	6.5	1.8	2.5	2.2447	34	75	1,015	81	3,577	94.1	94.1	94.1	0.84	0.88	0.89	299
115	240	326	315S/M	65.28	7.9	2.2	2.9	2.7685	23	51	1,115	81	3,581	94	94.1	94.1	0.82	0.87	0.89	376
116	290	394	315L	78.83	9.2	2.8	3.2	3.5916	19	42	1,330	82	3,583	94	94.1	94.1	0.83	0.88	0.9	449
117	367	499	355M/L	99.82	7.4	2.4	2.4	5.2547	30	66	1,700	87	3,581	94.1	94.1	94.1	0.87	0.9	0.91	562
118	415	565	355M/L	112.78	8.3	2.6	2.4	6.0053	23	51	1,825	87	3,584	94.1	94.1	94.1	0.84	0.88	0.88	658
IV poles																				
119	90	125	W280S/M	49.22	8	2.8	2.8	1.0757	29	64	560	68	1,781	93.1	93.2	93.2	0.72	0.81	0.85	149
120	108	147	W280S/M	59.1	8	3.1	2.9	1.2102	20	44	595	68	1,780	93.1	93.2	93.5	0.71	0.8	0.84	180
121	132	175	W315S/M	72.03	7.2	2.4	2.6	2.5962	20	44	890	75	1,785	93.4	93.5	94.5	0.7	0.79	0.83	221
122	158	215	W315S/M	86.26	7.2	2.5	2.6	2.8253	20	44	925	75	1,784	94.5	94.5	94.5	0.7	0.79	0.83	264
123	191	260	315S/M	103.99	7.4	2.7	2.6	4.2191	35	77	1,115	75	1,789	94.5	94.5	94.5	0.78	0.85	0.87	305
124	240	326	315S/M	130.67	7.3	2.7	2.5	5.3294	32	70	1,255	75	1,789	94.4	94.5	94.5	0.8	0.86	0.88	379
125	288	391	315L	156.89	6.9	2.6	2.5	5.6364	25	55	1,365	77	1,788	96	96.2	96.2	0.78	0.85	0.87	452
126	345	470	315L	187.83	7.7	3.1	2.8	6.8521	20	44	1,505	77	1,789	95.3	95.4	95.4	0.76	0.84	0.87	545
127	415	565	355M/L	225.82	6.9	2.7	2.4	11.0972	23	51	1,930	81	1,790	94.5	94.5	94.5	0.77	0.84	0.86	670
VI poles																				
128	94.2	128	W315S/M	77.23	6.1	1.9	2.2	3.2402	26	57	836	69	1,188	93	93	93	0.71	0.8	0.83	160
129	113	154	W315S/M	92.64	6.3	2	2.4	3.7138	23	51	895	69	1,188	94.1	94.1	94.1	0.68	0.78	0.82	192
130	138	188	W315S/M	113.24	6.4	2	2.3	4.6166	22	48	1,002	69	1,187	94.1	94.1	94.1	0.73	0.81	0.84	229
131	165	224	315L	135.05	6.2	2.2	2.4	6.5861	32	70	1,196	73	1,190	94.1	94.1	94.1	0.69	0.79	0.82	281
132	200	270	315L	163.70	6.4	2.3	2.4	8.1312	29	64	1,336	73	1,190	94.1	94.1	94.1	0.7	0.79	0.83	336
133	250	340	355M/L	204.28	5.1	1.6	2	8.915	48	106	1,566	77	1,192	94.1	94.1	94.1	0.67	0.76	0.8	436
134	300	400	355M/L	245.13	5.1	1.8	2	11.2376	48	106	1,790	77	1,192	94.1	94.1	94.1	0.68	0.77	0.8	523
135	378	513	355M/L	309.39	4.9	1.7	1.9	12.9523	40	88	1,955	77	1,190	94.1	94.1	94.1	0.69	0.78	0.81	651

Electrical tables

W20 Marine - Super Premium Efficiency - 60 Hz - 440 V - S2 60min

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	Rated speed (rpm)	440 V						
														% of full load					Full load current In (A)	
	Efficiency								Power factor											
	kW	HP							Hot	Cold				50	75	100	50	75	100	
VIII poles																				
136	86	117	W315S/M	94.33	5.2	1.4	1.8	3.5835	22	48	878	63	888	92.5	92.5	92.5	0.65	0.74	0.78	229
137	103	139	W315S/M	112.72	5.5	1.6	1.9	4.4657	32	70	984	63	890	92.5	92.5	92.5	0.67	0.75	0.78	281
138	127	173	315L	138.67	6.6	2.1	2.5	7.006	29	64	1,218	71	892	92.5	92.5	92.5	0.61	0.72	0.77	336
139	145	197	355M/L	158.51	4.9	1.1	1.8	8.3444	61	134	1,295	75	891	92.5	92.5	92.5	0.71	0.79	0.81	396
140	182	247	355M/L	198.73	5.7	1.3	2.1	9.8944	48	106	1,406	75	892	92.5	92.5	92.5	0.67	0.76	0.8	436
141	228	310	355M/L	248.96	5.9	1.5	2.2	12.9945	40	88	1,625	75	892	92.5	92.5	92.5	0.68	0.77	0.8	651

W20 Marine - Premium Efficiency - 60 Hz - 440 V - S2 30min

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	440 V							Full load current In (A)
													% of full load							
	kW	HP							Efficiency				Power factor		Rated speed (rpm)	50	75	100	50	
II poles																				
1	0.17	0.23	63M	0.05	6.8	5.8	5.7	0.0002	21	46	6.3	56	3,450	57.5	57.5	62.0	0.44	0.55	0.64	0.56
2	0.25	0.33	63M	0.07	5.7	4.0	3.8	0.0002	20	44	6.3	56	3,395	62.0	62.0	64.0	0.53	0.66	0.75	0.68
3	0.35	0.48	63M	0.10	4.4	2.5	2.4	0.0002	16	35	6.3	56	3,265	64.0	64.0	70.0	0.65	0.78	0.85	0.77
4	0.53	0.72	71M	0.15	5.7	2.5	2.6	0.0004	16	35	8.1	61	3,405	70.0	70.0	72.0	0.69	0.81	0.87	1.11
5	0.8	1.08	71M	0.23	5.6	2.6	2.5	0.0004	16	35	9	61	3,350	72.0	72.0	74.0	0.75	0.84	0.89	1.59
6	1.05	1.43	80M	0.30	6.0	1.8	2.5	0.0009	8	18	12.2	65	3,440	74.0	74.0	78.5	0.72	0.83	0.88	1.99
7	1.54	2.1	80M	0.44	6.4	2.2	2.8	0.0011	8	18	13.9	65	3,435	78.5	78.5	81.0	0.74	0.84	0.89	2.80
8	2.1	2.85	90S	0.59	7.9	2.8	2.9	0.001	12	26	17.4	65	3,435	84.9	81.5	81.5	0.77	0.85	0.88	3.84
9	3.1	4.2	90L	0.87	7.9	3.5	3.0	0.0024	8	18	21.4	65	3,460	81.5	81.5	84.5	0.82	0.88	0.90	5.35
10	4.2	5.7	100L	1.17	8.0	2.5	3.1	0.005	8	18	30.3	78	3,495	84.5	84.5	84.5	0.84	0.90	0.92	7.09
11	5.6	7.6	112M	1.56	8.0	2.4	3.0	0.0063	8	18	35.8	78	3,505	84.5	84.5	86.0	0.86	0.91	0.93	9.19
12	7.7	10.5	132S/M	2.13	8.0	2.5	2.9	0.0163	16	35	56	78	3,515	86.0	86.0	87.5	0.86	0.90	0.92	12.55
13	10.5	14.3	132S/M	2.91	7.7	2.6	2.7	0.0218	21	46	68	78	3,515	87.5	87.5	87.5	0.88	0.91	0.92	17.1
14	15.4	20.9	160M	4.27	6.1	1.9	2.5	0.0404	8	18	110	72	3,515	87.5	87.5	88.5	0.78	0.86	0.88	26.0
15	20	27.2	160M	5.53	7.0	2.2	2.7	0.0514	6	13	120	72	3,520	88.5	88.5	89.5	0.79	0.86	0.89	33.0
16	25	34	160L	6.91	7.9	2.9	3.0	0.0625	6	13	135	72	3,525	89.5	89.5	89.5	0.78	0.86	0.89	41.2
17	28.6	38.9	180M	7.87	7.1	1.9	2.7	0.0919	6	13	165	72	3,540	89.5	89.5	90.2	0.79	0.86	0.88	47.3
18	39	53	200M/L	10.72	6.2	2.7	2.5	0.1611	12	26	230	77	3,545	90.2	90.2	91.5	0.79	0.85	0.87	64.3
19	48	65.2	200M/L	13.21	6.3	2.5	2.5	0.1865	8	18	250	77	3,540	91.5	91.5	91.7	0.79	0.85	0.88	78.1
20	61	83	225S/M	16.74	6.6	2.0	2.5	0.2601	8	18	340	79	3,550	91.7	91.7	92.4	0.80	0.86	0.88	98.4
21	72	98	250S/M	19.75	6.8	2.3	2.5	0.3384	8	18	415	79	3,550	92.4	92.4	93.0	0.80	0.86	0.88	115.4
22	94.2	128	W280S/M	25.88	6.6	2.4	2.4	0.5075	11	24	520	79	3,545	93.0	93.0	93.0	0.84	0.89	0.90	147
23	113	154	W280S/M	31.05	6.9	2.4	2.5	0.4568	17	37	520	79	3,545	93.0	93.0	93.0	0.83	0.88	0.89	179
24	132	175	W315S/M	36.07	5.7	1.6	2.2	0.9776	25	55	745	81	3,564	94.4	95.0	94.7	0.81	0.86	0.88	208
25	158	215	W315S/M	43.13	8.4	1.9	2.4	1.1998	20	44	800	81	3,568	94.9	95.4	95.1	0.83	0.88	0.89	245
26	192	261	W315S/M	52.46	6.3	1.9	2.2	1.7331	21	46	945	81	3,565	94.1	94.1	94.1	0.87	0.90	0.90	297
27	222	302	315S/M	60.43	6.9	2.1	2.5	2.6937	25	55	1,100	81	3,578	94.1	94.1	94.1	0.85	0.89	0.90	344
28	240	326	315S/M	65.31	7.7	2.2	2.7	2.6937	23	51	1,100	81	3,579	95.7	95.8	95.8	0.84	0.89	0.9	365
29	300	400	315L	81.62	6.9	2.4	2.8	3.4245	19	42	1,300	82	3,580	95.6	96.2	96.2	0.85	0.89	0.90	455
30	378	513	355M/L	102.84	7.3	2.3	2.3	5.1474	27	59	1,680	87	3,580	94.1	94.1	94.1	0.87	0.90	0.91	579
31	425	578	355M/L	115.50	8.3	2.5	2.7	6.0053	24	53	1,820	87	3,584	94.1	94.1	94.1	0.85	0.89	0.90	658
IV poles																				
32	0.17	0.23	63M	0.10	3.5	2.0	2.0	0.0002	32	70	6.1	55	1,655	62.0	62.0	66.0	0.46	0.59	0.69	0.49
33	0.25	0.33	63M	0.15	3.7	2.3	2.1	0.0002	28	62	6.2	55	1,625	66.0	66.0	68.0	0.46	0.59	0.70	0.69
34	0.35	0.48	71M	0.20	4.5	2.0	2.1	0.0007	24	53	8.2	59	1,690	68.0	68.0	70.0	0.55	0.69	0.77	0.85
35	0.53	0.72	71M	0.31	4.3	2.0	2.0	0.0007	24	53	9	59	1,655	70.0	70.0	74.0	0.61	0.74	0.81	1.16
36	0.8	1.08	80M	0.46	5.5	2.1	2.4	0.0021	20	44	11.9	59	1,700	74.0	74.0	77.0	0.65	0.77	0.84	1.62
37	1.05	1.43	80M	0.6	5.5	2.2	2.4	0.0026	16	35	13.5	59	1,695	77	77	79	0.68	0.79	0.85	2.05
38	1.54	2.1	90S	0.88	5.5	2.6	2.7	0.003	20	44	16.8	59	1,705	79	79	81.5	0.65	0.77	0.83	2.99
39	2.1	2.85	90L	1.19	6.4	2.9	2.8	0.0045	12	26	20.9	59	1,715	81.5	81.5	83	0.66	0.78	0.84	3.95
40	3.1	4.2	100L	1.75	6.9	2.7	3	0.0081	16	35	30.5	67	1,725	83	83	85	0.69	0.79	0.84	5.70
41	4.2	5.7	100L	2.39	6.4	2.9	2.8	0.0081	13	29	30.4	67	1,710	85	85	85	0.68	0.79	0.84	7.72
42	5.6	7.6	112M	3.15	6.9	3.1	3	0.0127	12	26	38.5	67	1,730	85	85	87	0.67	0.78	0.84	10.05
43	7.7	10.5	132S/M	4.31	6.7	2.6	2.6	0.037	20	44	69	67	1,740	87	87	87.5	0.76	0.83	0.86	13.4

Electrical tables

W20 Marine - Premium Efficiency - 60 Hz - 440 V - S2 30min

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	Rated speed (rpm)	440 V						Full load current In (A)
														% of full load						
	kW	HP							Efficiency					Power factor						
									50	75				100	50	75	100			
IV poles																				
44	10.5	14.3	132S/M	5.88	7.3	2.9	2.8	0.0423	12	26	75	67	1,740	87.5	87.5	88.5	0.74	0.82	0.86	18.1
45	15.4	20.9	160M	8.52	6	2	2.4	0.1048	6	13	115	63	1,760	88.5	88.5	89.5	0.73	0.82	0.85	26.6
46	20	27.2	160L	11.04	6.4	2.2	2.4	0.1467	6	13	145	63	1,765	89.5	89.5	90.5	0.74	0.83	0.86	33.7
47	25	34	180M	13.87	6.2	2.4	2.4	0.174	8	18	175	65	1,755	90.5	90.5	91	0.75	0.83	0.86	41.9
48	28.6	38.9	180L	15.78	7.2	3	3	0.2088	8	18	206.4	65	1,765	91	91	91.7	0.7	0.8	0.84	48.7
49	39	53	200M/L	21.46	6.5	2.1	2.5	0.3074	6	13	256.03	65	1,770	91.7	91.7	92.4	0.74	0.82	0.85	65.2
50	48	65.2	W225S/M	26.41	6.8	2.2	2.5	0.3743	8	18	280	65	1,770	92.4	92.4	93	0.75	0.83	0.86	78.8
51	61	83	225S/M	33.57	6.5	2.1	2.4	0.5406	14	31	362.46	67	1,770	93	93	93	0.75	0.83	0.86	100.1
52	72	98	250S/M	39.46	6.8	2.2	2.4	0.7756	8	18	445.42	68	1,777	93	93	93.2	0.74	0.82	0.85	119
53	94.2	128	W280S/M	51.66	8.5	2.4	2.3	1.0791	12	26	548.1	68	1,776	93.1	93.2	93.2	0.78	0.85	0.87	152
54	113	154	W280S/M	61.94	7.1	2.6	2.6	1.0116	12	26	550	68	1,777	93.2	93.2	93.5	0.74	0.82	0.85	187
55	138	188	W315S/M	75.6	5.7	1.8	2	1.909	12	26	780	75	1,778	93.5	93.5	94.5	0.73	0.81	0.83	231
56	165	224	W315S/M	90.29	5.8	1.9	2	2.4435	16	35	829.25	75	1,780	94.5	94.5	94.5	0.75	0.82	0.84	273
57	200	270	W315S/M	109.44	5.9	2	2	3.2835	16	35	990	75	1,780	94.5	94.5	94.5	0.76	0.83	0.85	327
58	230	315	315S/M	125.43	6.5	2.3	2.2	3.997	23	51	1,080	75	1,786	94.5	94.5	94.5	0.8	0.86	0.87	367
59	250	340	315S/M	136.26	6.7	2.4	2.3	4.3301	22	48	1,125	75	1,787	94.5	94.5	94.5	0.79	0.85	0.87	399
60	300	400	315L	163.42	6.8	2.6	2.5	5.3048	20	44	1,310	77	1,788	96.1	96.2	96.2	0.76	0.84	0.87	470
61	362	492	315L	197.2	7.4	3	2.6	6.8521	18	40	1,622.59	77	1,788	94.4	94.5	94.5	0.77	0.84	0.87	578
62	425	578	355M/L	231.39	6.1	2.2	2.2	10.5603	26	57	1,840	81	1,789	94.5	94.5	94.5	0.78	0.84	0.86	686
VI poles																				
63	0.25	0.33	71M	0.22	3.3	1.7	1.7	0.0008	27	59	8	59	1,095	52.5	52.5	57.5	0.49	0.63	0.73	0.78
64	0.35	0.48	80M	0.3	3.9	1.7	2.1	0.0016	32	70	10	59	1,130	57.5	57.5	62	0.48	0.61	0.71	1.04
65	0.53	0.72	80M	0.46	3.7	1.6	1.7	0.0021	32	70	12	59	1,115	62	62	66	0.55	0.69	0.77	1.37
66	0.8	1.08	90S	0.7	3.9	1.7	1.8	0.0033	42	92	16	59	1,115	66	66	72	0.56	0.69	0.76	1.92
67	1.05	1.43	90S	0.93	3.6	1.6	1.9	0.0033	28	62	17	59	1,105	72	72	75	0.58	0.71	0.77	2.39
68	1.54	2.1	100L	1.32	5.8	2.2	2.4	0.0081	36	79	30	67	1,135	75	75	77	0.67	0.78	0.83	3.16
69	2.1	2.85	112M	1.79	5.3	1.9	2.4	0.0195	40	88	37	67	1,145	77	77	78.5	0.56	0.69	0.77	4.56
70	3.1	4.2	132S/M	2.58	7.4	2.1	2.4	0.0605	48	106	74	67	1,170	78.5	78.5	83.5	0.74	0.82	0.85	5.73
71	4.2	5.7	132S/M	3.51	7.3	2.2	2.4	0.0656	42	92	78	67	1,165	83.5	83.5	83.5	0.75	0.82	0.85	7.76
72	5.6	7.6	132S/M	4.68	7.9	2.4	2.7	0.0656	20	44	78	67	1,165	83.5	83.5	85	0.72	0.81	0.84	10.29
73	7.4	9.9	160M	6.13	6.8	1.5	2.4	0.1708	12	26	115	59	1,176	86	86	86	0.7	0.81	0.86	13.1
74	9.3	12.6	160M	7.71	7.0	1.5	2.3	0.1821	9	20	119	59	1,175	89	89	89	0.74	0.83	0.87	15.8
75	13.8	18.8	160L	11.54	6.6	1.7	2.3	0.1821	7	15	133	59	1,165	89.5	89.5	89.5	0.74	0.83	0.87	23.5
76	19.9	27	180L	16.64	6.7	1.8	2.5	0.2854	10	22	187	64	1,165	90.2	90.2	90.2	0.69	0.79	0.84	34.5
77	24	32.6	200M/L	19.89	4.6	1.8	2.1	0.3477	26	57	226	64	1,170	91	91	91	0.64	0.74	0.79	43.8
78	28.6	38.9	200M/L	23.81	4.5	1.6	1.9	0.2892	26	57	233	64	1,170	91.7	91.7	91.7	0.65	0.76	0.8	51.2
79	39	53	W225S/M	32.61	4.8	1.6	2.0	0.4209	30	66	287	64	1,165	91.7	91.7	91.7	0.68	0.77	0.81	68.9
80	48	65	250S/M	39.65	6.2	1.8	2.3	1.1565	13	29	470	67	1,179	91.7	91.7	91.7	0.73	0.82	0.85	80.8
81	58	79	W280S/M	48.04	6.0	1.9	2.2	1.1565	13	29	489	67	1,176	92.1	92.1	92.1	0.75	0.83	0.86	96.1
82	71.47	97.1	W280S/M	59.14	6.7	2.2	2.5	1.6749	10	22	533	67	1,177	93	93	93	0.72	0.81	0.85	119
83	98	133	W315S/M	80.48	5.5	1.9	2.0	4.2029	18	40	926	70	1,186	93	93	93	0.73	0.81	0.83	167
84	113	154	W315S/M	92.96	5.5	1.7	1.9	3.3546	20	44	848	70	1,184	94.1	94.1	94.1	0.78	0.83	0.85	185
85	137	186	W315S/M	112.80	5.5	1.8	2.0	4.1250	19	42	943	70	1,183	94.1	94.1	94.1	0.75	0.82	0.84	227
86	165	224	315S/M	135.73	4.7	1.5	1.6	6.1770	32	70	1,095	70	1,184	94.1	94.1	94.1	0.77	0.83	0.84	274
87	184	249.9	315L	150.73	5.8	2.0	2.1	7.0805	26	57	1,235	73	1,189	94.1	94.1	94.1	0.74	0.82	0.84	305
88	213	290	315L	174.63	5.8	2.1	2.2	8.4402	28	62	1,364	73	1,188	94.1	94.1	94.1	0.73	0.81	0.84	354
89	250	340	355M/L	204.62	4.5	1.5	1.7	7.1880	38	84	1,405	77	1,190	94.1	94.1	94.1	0.7	0.78	0.8	436
90	313	425	355M/L	255.97	4.9	1.7	1.9	9.7095	29	64	1,642	77	1,191	94.1	94.1	94.1	0.69	0.77	0.8	546
91	394	536	355M/L	321.94	5.7	1.9	2.2	12.8940	29	64	1,933	77	1,192	94.1	94.1	94.1	0.7	0.78	0.81	678
VIII poles																				
92	5.4	7.3	160M	6.00	5.4	1.3	1.9	0.1261	12	26	100	59	877	84	84	84	0.65	0.76	0.82	10.30
93	7.4	9.9	160M	8.22	5.7	1.4	2.1	0.1821	10	22	118	59	877	85	85	85	0.61	0.73	0.8	14.3
94	9.2	12.5	160L	10.24	5.7	1.4	2.1	0.2274	10	22	142	59	875	85	85	85	0.61	0.73	0.8	17.8
95	13.8	18.8	180L	15.45	5.5	1.5	2.1	0.2523	15	33	186	64	870	88.5	88.5	88.5	0.59	0.71	0.77	26.6
96	17.7	24	200M/L	19.64	4.4	1.8	1.7	0.3785	45	99	253	64	881	88.5	88.5	88.5	0.55	0.66	0.73	35.9
97	22	30	W225S/M	24.49	3.8	1.4	1.7	0.3638	60	132	262	64	875	90.2	90.2	90.2	0.56	0.67	0.72	44.5
98	28.6	38.9	225S/M	31.80	5	1.4	1.9	0.6107	20	44	325	64	876	90.2	90.2	90.2	0.62	0.73	0.77	54

Electrical tables

W20 Marine - Premium Efficiency - 60 Hz - 440 V - S2 30min

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current I/I _n	Locked rotor torque T/T _n	Breakdown torque T _b /T _n	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	Rated speed (rpm)	440 V						Full load current I _n (A)
														% of full load						
	kW	HP							Efficiency					Power factor						
									50	75				100	50	75	100			
VIII poles																				
99	37	50	250S/M	40.95	5	1.4	1.9	0.9228	18	40	419	67	880	91	91	91	0.64	0.75	0.79	67.5
100	46	63	W280S/M	50.97	5	1.4	1.9	1.1234	17	37	480	67	879	91	91	91	0.66	0.76	0.79	84
101	56	76	W280S/M	62.05	5.5	1.7	2.1	1.3642	14	31	532	67	879	91.5	91.5	91.5	0.63	0.73	0.78	103
102	69	94	W315S/M	75.60	4.9	1.4	1.6	3.107	28	62	797	63	889	92	92	92	0.67	0.76	0.78	126
103	90	125	W315S/M	98.83	4.9	1.4	1.6	3.5835	23	51	878	63	887	92.5	92.5	92.5	0.66	0.75	0.78	164
104	107.5	146	W315S/M	117.78	5.3	1.6	1.8	4.4657	23	51	984	63	889	92.5	92.5	92.5	0.68	0.76	0.79	193
105	126	172	315L	138.20	4.6	1.3	1.6	6.9907	42	92	1,218	71	888	92.5	92.5	92.5	0.72	0.79	0.81	221
106	151	205	355M/L	165.07	4.7	1.1	1.7	8.3444	31	68	1,295	75	891	92.5	92.5	92.5	0.72	0.79	0.81	264
107	191	260	355M/L	208.56	5.4	1.2	2	9.8944	26	57	1,406	75	892	92.5	92.5	92.5	0.68	0.77	0.8	339
108	222	302	355M/L	242.41	5.7	1.4	2.1	11.9611	25	55	1,551	75	892	92.5	92.5	92.5	0.68	0.77	0.8	394
109	240	326	355M/L	262.06	5.6	1.3	2	12.9945	25	55	1,625	75	892	92.5	92.5	92.5	0.69	0.78	0.81	420

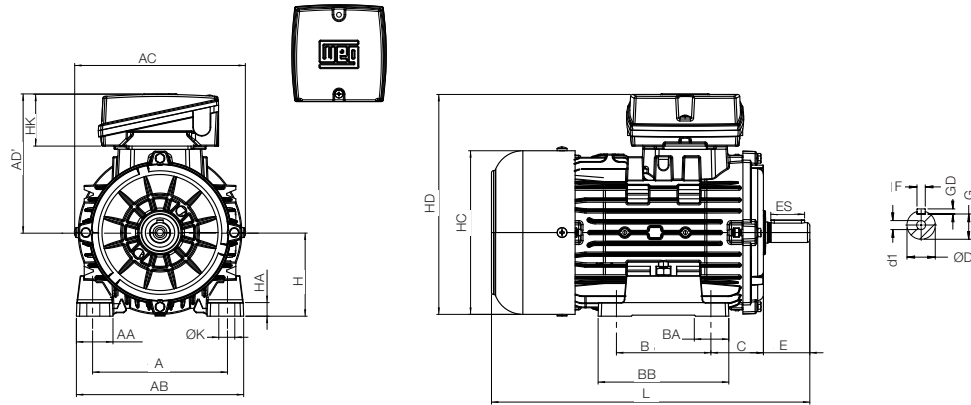
W20 Marine - Super Premium Efficiency - 60 Hz - 440 V - S2 30min

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current II/In	Locked rotor torque TI/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	Rated speed (rpm)	440 V						Full load current In (A)
														% of full load			Power factor			
	kW	HP							Efficiency					Power factor						
									50	75				100	50	75	100			
II poles																				
110	94.2	128	W280S/M	25.81	7.5	2.6	2.7	0.4568	28	62	520	79	3,555	92.9	93	93	0.82	0.87	0.89	149
111	113	154	W280S/M	30.96	7.7	2.7	2.8	0.5414	24	53	565	79	3,555	92.9	93	93	0.82	0.88	0.89	179
112	138	188	W315S/M	37.65	6.8	2	2.5	1.2443	24	53	815	81	3,570	93	93	94.1	0.83	0.88	0.89	216
113	165	224	W315S/M	45.02	6.7	2	2.4	1.4664	26	57	875	81	3,570	94.1	94.1	94.1	0.85	0.89	0.9	256
114	200	270	315S/M	54.47	6.2	1.8	2.4	2.2447	31	68	1,015	81	3,576	94.1	94.1	94.1	0.85	0.89	0.89	313
115	250	340	315S/M	68.02	7.6	2.1	2.8	2.7685	21	46	1,115	81	3,580	94	94.1	94.1	0.83	0.88	0.89	392
116	300	400	315L	81.57	8.9	2.7	3.1	3.5916	18	40	1,330	82	3,582	94	94.1	94.1	0.83	0.89	0.9	465
117	378	513	355M/L	102.84	7.2	2.3	2.3	5.2547	28	62	1,700	87	3,580	94.1	94.1	94.1	0.87	0.9	0.91	579
118	425	578	355M/L	115.5	8.1	2.5	2.3	6.0053	22	48	1,825	87	3,584	94.1	94.1	94.1	0.85	0.88	0.88	673
IV poles																				
119	94.2	128	W280S/M	51.55	7.7	2.8	2.8	1.0757	27	59	560	68	1,780	93.1	93.2	93.2	0.73	0.82	0.85	156
120	113	154	W280S/M	61.87	7.7	2.8	2.7	1.2102	16	35	595	68	1,779	93.1	93.2	93.5	0.72	0.81	0.85	187
121	138	188	W315S/M	75.34	6.9	2.3	2.4	2.5962	20	44	890	75	1,784	93.4	93.5	94.5	0.71	0.8	0.83	231
122	165	224	W315S/M	90.13	6.9	2.4	2.4	2.8253	19	42	925	75	1,783	94.5	94.5	94.5	0.71	0.8	0.83	276
123	200	270	315S/M	108.89	7.1	2.6	2.5	4.2191	33	73	1,115	75	1,789	94.5	94.5	94.5	0.79	0.85	0.87	319
124	250	340	315S/M	136.19	7	2.6	2.4	5.3294	30	66	1,255	75	1,788	94.4	94.5	94.5	0.81	0.86	0.88	394
125	300	400	315L	163.51	6.6	2.5	2.4	5.6364	23	51	1,365	77	1,787	96	96.2	96.2	0.79	0.85	0.87	470
126	362	492	315L	197.2	7.4	3	2.6	6.8521	18	40	1,505	77	1,788	95.3	95.4	95.4	0.77	0.84	0.87	572
127	425	578	355M/L	231.26	6.7	2.6	2.4	11.0972	22	48	1,930	81	1,790	94.5	94.5	94.5	0.77	0.84	0.86	686
VI poles																				
128	101	137	W315S/M	82.88	5.7	2	2.1	3.2402	24	53	836	69	1,187	94.1	94.1	94.1	0.73	0.81	0.84	168
129	122	166	W315S/M	100.11	5.8	1.9	2.2	3.7138	20	44	895	69	1,187	94.1	94.1	94.1	0.7	0.79	0.82	207
130	150	200	W315S/M	123.19	5.9	1.9	2.1	4.6166	19	42	1,002	69	1,186	94.1	94.1	94.1	0.74	0.82	0.84	249
131	172	234	315L	140.90	6	2.1	2.3	6.5861	30	66	1,196	73	1,189	94.1	94.1	94.1	0.7	0.79	0.83	289
132	208	283	315L	170.39	6.2	2.2	2.3	8.1312	27	59	1,336	73	1,189	94.1	94.1	94.1	0.71	0.8	0.83	349
133	270	365	355M/L	220.81	4.7	1.6	1.9	8.915	42	92	1,566	77	1,191	94.1	94.1	94.1	0.69	0.77	0.8	471
134	313	425	355M/L	255.97	5	1.7	1.9	11.2376	45	99	1,790	77	1,191	94.1	94.1	94.1	0.69	0.78	0.81	539
135	394	536	355M/L	322.48	4.7	1.6	1.8	12.9523	36	79	1,955	77	1,190	94.1	94.1	94.1	0.7	0.78	0.81	678
VIII poles																				
136	90	125	W315S/M	98.83	4.9	1.4	1.6	3.5835	19	42	878	63	887	92.5	92.5	92.5	0.66	0.75	0.78	249
137	108	147	W315S/M	118.33	5.3	1.5	1.8	4.4657	30	66	984	63	889	92.5	92.5	92.5	0.68	0.76	0.79	289
138	132	175	315L	144.13	6.5	2	2.4	7.006	27	59	1,218	71	892	92.5	92.5	92.5	0.62	0.73	0.78	349
139	151	205	355M/L	165.07	4.7	1.1	1.7	8.3444	53	117	1,295	75	891	92.5	92.5	92.5	0.72	0.79	0.81	425
140	190	258	355M/L	207.47	5.4	1.3	2	9.8944	42	92	1,406	75	892	92.5	92.5	92.5	0.68	0.77	0.8	471
141	238	323	355M/L	259.88	5.7	1.4	2.1	12.9945	36	79	1,625	75	892	92.5	92.5	92.5	0.69	0.78	0.81	678

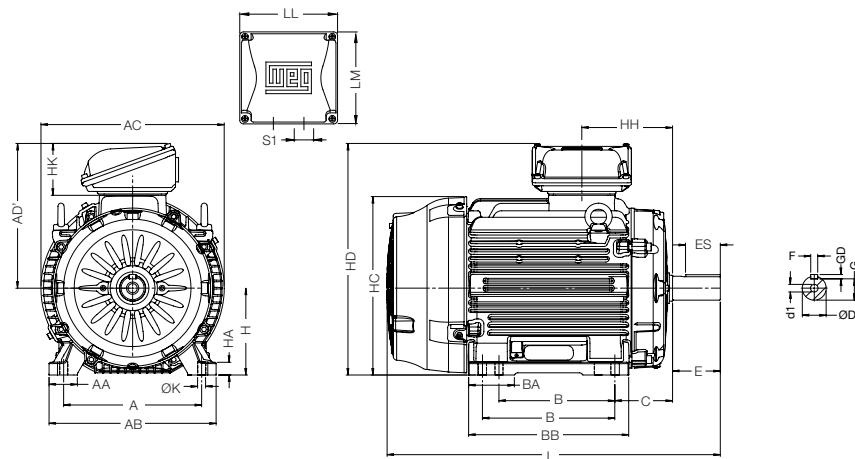
Mechanical data

Foot mounted motors, terminal box top

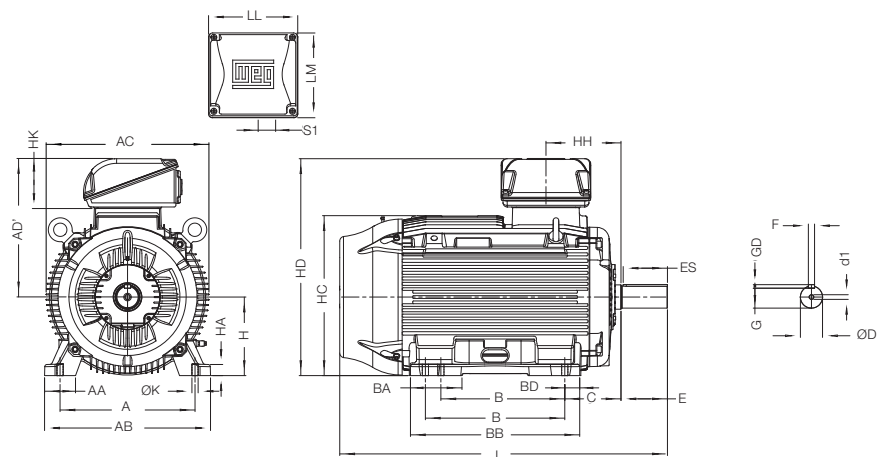
Aluminium frames 63 to 132



Cast iron frames 160M to W315S/M



Cast iron frames 315S/M to 355M/L



Mechanical data

Frames	A	AA	AB	AC	B	BA	BB	C	E	D	H	HD	HA	K	S1	d1	F	GD	G	ES	L											
63M	100	22	119	133	8	27.6	100	40	23	11j6	63	166.7	7	7	1xM20+ 1xM16	M4	4	4	8.5	16	205											
71M	112	30.6	130.6	151	90	24.2	105.6	45	30	14j6	71	183.2	9			M5	5	5	11	22	256.3											
80M	125	33	159	159	100	32	125	50	40	19j6	80	213.2	13	10		1xM25+ 1xM16	M6	6	6	15.5	32	306										
80L															335																	
90S	340																															
90L	140	40	180	180	125	35	155	56	50	24j6	90	230.7	12	12	2xM32		M8	8	7	20	40	370										
100L																410																
112M	190	51	228	228	140	38	175	63	60	28j6	100	252	13			14						2xM32	M12	10	8	33	70	420.4				
132S	216	62.2	262	264										178			35.6	219	89	80	38k6							132	324	15	16	2xM40x1.5
132M	210	254	241	279		246	290	288	325	108	48k6	180	473.5		18.5																	
160M	279	50.5	329	389	121									133		140	60m6	225	558.5	25	18.5		2xM50x1.5	DM20	16	10	49	125	817			
160L	318	65.3	385	414	267/305	105.5	369	149	110	55m6	622	28	18.5	2xM50x1.5	DM20	18	11	53	100	856.5												
180M	356	80	436		488	286/311	100	394.5	149	110	55m6	622								28	18.5	2xM50x1.5							DM20	16	10	49
180L	279	50.5	329	389		267/305	105.5	369	133	140	60m6	558.5								25				14.5	2xM40x1.5	DM16	14	9				
200M/L	318	65.3	385	414	267/305	105.5	369	133	140	60m6	558.5	25	18.5		2xM50x1.5	DM20	16	10	49	125			817									
W225S/M	356	80	436		488	286/311	100	394.5	149	110	55m6	622		28							18.5		2xM50x1.5						DM20	18	11	53
225S/M ^{2P}				406		100	506	528	311/349	135 / 119.5	447	168		140								60m6		250		667	24	2xM63x1.5				
250S/M ^{2P}									457	557	368/419	142.5	509			190	170	80m6	315	849					48							
W280S/M ^{2P}	508	120	630	599	406/457									167	561						216	140		65m6		790			35	2xM63x1.5	DM20	18
W280S/M						406	120	630	599			406/457	167			561	216	140	65m6	790			35				2xM63x1.5					
W315S/M ^{2P}	508				120					630	599			406/457	167						561	216		140	65m6	790		35				
W315S/M		508	120	630		599						406/457	167			561	216	140	65m6	790									35		2xM63x1.5	DM20
315S/M ^{2P}	508						120	630	599					406/457	167						561	216	140	65m6	790	35				2xM63x1.5		
315L ^{2P}		508			120					630	599	406/457	167			561	216	140	65m6	790							35	2xM63x1.5				
315L	508		120	630		599								406/457	167						561	216	140	65m6	790				35			2xM63x1.5
355M/L ^{2P}		508					120	630	599			406/457	167			561	216	140	65m6	790						35					2xM63x1.5	
355M/L	508				120					630	599			406/457	167						561	216	140	65m6	790		35			2xM63x1.5		
355M/L		508	120	630		599						406/457	167			561	216	140	65m6	790								35	2xM63x1.5			
355M/L	508						120	630	599					406/457	167						561	216	140	65m6	790	35						2xM63x1.5
355M/L		508			120					630	599	406/457	167			561	216	140	65m6	790							35				2xM63x1.5	
355M/L	508		120	630		599								406/457	167						561	216	140	65m6	790			35		2xM63x1.5		
355M/L		508					120	630	599			406/457	167			561	216	140	65m6	790						35			2xM63x1.5			
355M/L	508				120					630	599			406/457	167						561	216	140	65m6	790		35					2xM63x1.5
355M/L		508	120	630		599						406/457	167			561	216	140	65m6	790								35			2xM63x1.5	
355M/L	508						120	630	599					406/457	167						561	216	140	65m6	790	35				2xM63x1.5		
355M/L		508			120					630	599	406/457	167			561	216	140	65m6	790							35		2xM63x1.5			
355M/L	508		120	630		599								406/457	167						561	216	140	65m6	790			35				2xM63x1.5
355M/L		508					120	630	599			406/457	167			561	216	140	65m6	790						35					2xM63x1.5	
355M/L	508				120					630	599			406/457	167						561	216	140	65m6	790		35			2xM63x1.5		
355M/L		508	120	630		599						406/457	167			561	216	140	65m6	790								35	2xM63x1.5			
355M/L	508						120	630	599					406/457	167						561	216	140	65m6	790	35						2xM63x1.5
355M/L		508			120					630	599	406/457	167			561	216	140	65m6	790							35				2xM63x1.5	
355M/L	508		120	630		599								406/457	167						561	216	140	65m6	790			35		2xM63x1.5		
355M/L		508					120	630	599			406/457	167			561	216	140	65m6	790						35			2xM63x1.5			
355M/L	508				120					630	599			406/457	167						561	216	140	65m6	790		35					2xM63x1.5
355M/L		508	120	630		599						406/457	167			561	216	140	65m6	790								35			2xM63x1.5	
355M/L	508						120	630	599					406/457	167						561	216	140	65m6	790	35				2xM63x1.5		
355M/L		508			120					630	599	406/457	167			561	216	140	65m6	790							35		2xM63x1.5			
355M/L	508		120	630		599								406/457	167						561	216	140	65m6	790			35				2xM63x1.5
355M/L		508					120	630	599			406/457	167			561	216	140	65m6	790						35					2xM63x1.5	
355M/L	508				120					630	599			406/457	167						561	216	140	65m6	790		35			2xM63x1.5		
355M/L		508	120	630		599						406/457	167			561	216	140	65m6	790								35	2xM63x1.5			
355M/L	508						120	630	599					406/457	167						561	216	140	65m6	790	35						2xM63x1.5
355M/L		508			120					630	599	406/457	167			561	216	140	65m6	790							35				2xM63x1.5	
355M/L	508		120	630		599								406/457	167						561	216	140	65m6	790			35		2xM63x1.5		
355M/L		508					120	630	599			406/457	167			561	216	140	65m6	790						35			2xM63x1.5			
355M/L	508				120					630	599			406/457	167						561	216	140	65m6	790		35					2xM63x1.5

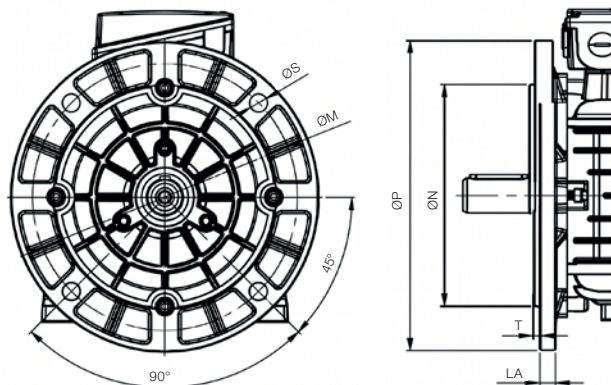
Note: 1) Total length reduction of 50 mm for footless motor.



Mechanical data

Flange mounted motors

“FF” flange



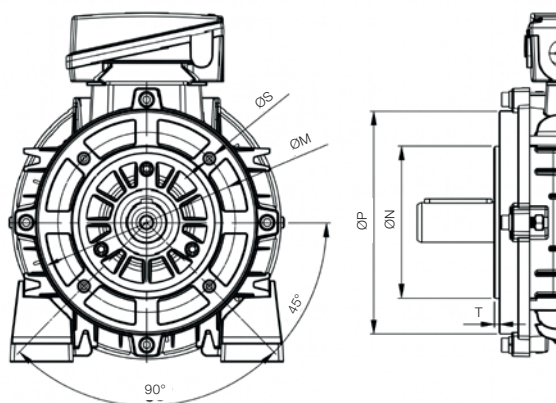
Frame	Flange	LA	M	N	P	S	T	α	N° of holes
63	FF-115	9	115	95	140	10	3	45°	4
71	FF-130	9.5	130	110	160		3.5		
80	FF-165	10	165	130	200	12			
90									
100	FF-215	13	215	180	250	14.5	4		
112		12							
132	FF-265	17.3	265	230	300				
160	FF-300	19.5	300	250	350	18.5	5		
180									
200	FF-350	20	350	300	400				
W225	FF-400	18	400	350	448	19	5	22°30'	8
225									
250	FF-500	20	500	450	548				
W280									
W315	FF-600	22	600	550	660/780 ¹⁾	24	6		
315		16							
355	FF-740	22	740	680	800/880 ¹⁾				

Notes: 1) Only for motors fitted with air deflector in drive end side.

2) All dimensions are in mm.

3) Tolerance -0.075 mm for aluminium flanges and -0.5 mm for polymeric.

“C-DIN” flange



Frame	Flange	M	N	P	S	T	a	N° of holes
63	FT-75	75	60	90	M5	2.5	45°	4
71	FT-85	85	70	105	M6			
80	FT-100	100	80	120		3		
90	FT-115	115	95	140	M8			
100	FT-130	130	110	160		3.5		
112								
132	FT-165	165	130	200	M10			
160	FT-215	215	180	250	M12	4		

Notes: 1) All dimensions are in mm.

2) Holes fit for screw.

3) Tolerance -0.075 mm for aluminium flanges and -0.5 mm for polymeric.

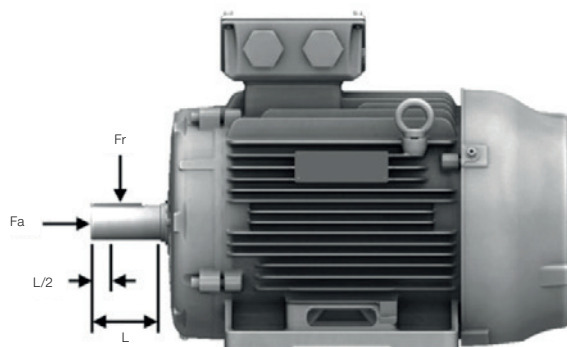
Sound pressure level details

Sound pressure levels at 50 Hz				
Frame	IE3/IE4			
IEC	2P	4P	6P	8P
63	53	49	-	-
71	55	55	53	-
80	63	57	57	-
90	63	57	57	-
100	71	65	65	-
112	71	65	65	-
132	71	65	65	-
160	67	59	59	59
180	67	62	64	63
200	72	63	64	64
W225	72	63	64	64
225	74	64	64	64
250	74	64	64	64
W280	74	64	64	64
W315	77	71	IE3 68	59
			IE4 65	
315	78	73	68	68
355	80	78	73	70

Sound pressure levels at 60 Hz				
Frame	IE3/IE4			
IEC	2P	4P	6P	8P
63	53	49	-	-
71	55	55	53	-
80	63	57	57	-
90	63	57	57	-
100	71	65	65	-
112	71	65	65	-
132	71	65	65	-
160	72	63	59	59
180	72	65	64	64
200	77	65	64	64
W225	77	65	64	64
225	79	67	64	64
250	79	68	67	67
W280	79	68	67	67
W315	81	75	IE3 70	63
			IE4 69	
315	82	77	73	71
355	87	81	77	75

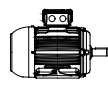
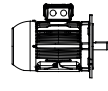
Permissible loads (axial and radial thrust of the bearings)

Axial loads (kN)							
Maximum permissible axial load (kN) - 50 Hz - 20,000 hours							
Position		Horizontal		Vertical with shaft upwards		Vertical with shaft downwards	
Frame (IEC)	Poles	Pulling	Pushing	Pulling	Pushing	Pulling	Pushing
63M	2	0.4	0.3	0.4	0.3	0.4	0.3
	4	0.5	0.4	0.5	0.4	0.5	0.4
	6	-	-	-	-	-	-
71M	2	0.4	0.2	0.4	0.3	0.5	0.2
	4	0.6	0.4	0.5	0.4	0.6	0.3
	6	0.7	0.5	0.6	0.5	0.7	0.4
80M	2	0.8	0.4	0.8	0.4	0.8	0.4
	4	1.0	0.6	0.9	0.6	1.0	0.5
	6	1.1	0.7	1.1	0.8	1.2	0.7
90	2	0.9	0.4	0.8	0.4	0.9	0.3
	4	1.1	0.6	1.0	0.7	1.2	0.5
	6	1.3	0.7	1.2	0.8	1.3	0.7
100L	2	1.1	0.5	1.1	0.6	1.2	0.5
	4	1.4	0.8	1.4	0.9	1.5	0.8
	6	1.6	1.0	1.6	1.2	1.8	1.0
112L	2	1.1	0.5	1.1	0.6	1.2	0.5
	4	1.4	0.8	1.3	1.0	1.6	0.7
	6	1.6	1.0	1.5	1.2	1.8	0.9
132S/M	2	1.7	0.9	1.6	1.1	1.9	0.8
	4	2.2	1.3	2.0	1.6	2.4	1.2
	6	2.5	1.6	2.3	2.0	2.8	1.4
160M	2	0.6	2.0	1.0	1.8	0.4	2.3
	4	1.1	2.4	1.6	2.2	0.8	2.9
	6	1.4	2.8	2.0	2.5	1.1	3.3
	8	1.7	3.1	2.3	2.8	1.4	3.6
160L	2	0.6	2.0	1.0	1.7	0.4	2.4
	4	1.1	2.4	1.6	2.1	0.7	3.0
	6	1.4	2.8	2.1	2.4	1.0	3.4
	8	1.7	3.1	2.4	2.7	1.3	3.7



Axial loads (kN)							
Maximum permissible axial load (kN) - 50 Hz - 20,000 hours							
Position		Horizontal		Vertical with shaft upwards		Vertical with shaft downwards	
Frame (IEC)	Poles	Pulling	Pushing	Pulling	Pushing	Pulling	Pushing
180M	2	1.0	2.4	1.5	2.1	0.8	2.9
	4	1.6	3.0	2.4	2.5	1.1	3.8
	6	2.1	3.5	2.9	3.0	1.7	4.2
	8	2.5	3.9	3.3	3.4	2.1	4.6
180L	2	1.0	2.4	1.6	2.1	0.7	2.9
	4	1.6	2.9	2.5	2.4	1.0	3.9
	6	2.1	3.4	2.9	2.9	1.5	4.3
	8	2.5	3.8	3.3	3.3	1.9	4.7
200M	2	1.3	2.7	2.0	2.3	0.9	3.4
	4	2.1	3.4	2.9	2.9	1.5	4.3
	6	2.6	4.0	3.6	3.4	2.0	5.0
	8	3.1	4.4	4.1	3.8	2.5	5.4
200L	2	1.3	2.7	2.1	2.2	0.9	3.4
	4	2.1	3.4	3.0	2.8	1.4	4.4
	6	2.6	3.9	3.7	3.3	1.9	5.1
	8	3.0	4.4	4.1	3.7	2.4	5.5
W225S/M	2	1.4	3.2	2.2	2.7	0.9	4.0
	4	2.2	4.0	3.2	3.4	1.6	5.1
	6	2.9	4.7	4	4	2.2	5.8
	8	3.4	5.2	4.5	4.6	2.8	6.3
225S/M	2	1.4	3.2	2.4	2.5	0.7	4.2
	4	2.2	4.0	3.6	3.1	1.3	5.4
	6	2.8	4.6	4.4	3.5	1.7	6.3
	8	3.3	5.1	5.0	4.1	2.3	6.8
250S/M	2	1.3	3.1	2.7	2.3	0.5	4.5
	4	2.0	3.8	4.0	2.6	0.8	5.8
	6	2.6	4.4	4.9	2.9	1.1	6.8
	8	3.1	4.9	5.5	3.5	1.6	7.3
W280S/M	2	3.2	5.0	4.6	4.2	2.4	6.4
	4	5.5	7.3	7.5	6.0	4.2	9.3
	6	6.7	8.5	9.1	7.0	5.2	10.9
	8	7.8	9.6	10.2	8.1	6.3	12.0
280S/M	2	2.8	4.9	5.4	3.2	1.1	7.5
	4	4.7	7.2	8.3	5.0	2.6	10.7
	6	5.9	8.3	10.2	5.7	3.3	12.6
	8	7.0	9.4	11.3	6.8	4.4	13.7
W315S/M	2	2.8	4.9	5.5	3.2	1.1	7.6
	4	6.2	8.3	9.8	6.0	3.9	11.9
	6	7.6	9.7	12.0	7.1	4.9	14.1
	8	8.9	11.0	13.2	8.3	6.2	15.3
315S/M	2	2.7	4.8	6.1	2.5	0.4	8.2
	4	5.8	8.2	10.3	5.4	3.0	12.7
	6	7.0	9.4	12.9	5.9	3.5	15.3
	8	8.3	10.7	14.4	7.0	4.6	16.8
315L	2	2.5	4.6	6.9	1.6	0.0	9.0
	4	5.6	8.0	11.3	4.3	1.9	13.7
	6	6.7	9.1	14.1	4.7	2.3	16.5
	8	8.0	10.4	15.5	5.7	3.3	17.9
355M/L	2	3.0	5.1	8.0	1.8	0.0	10.1
	4	6.8	9.6	13.7	5.3	2.5	16.5
	6	8.5	11.3	16.5	6.1	3.2	19.4
	8	9.9	12.7	18.3	7.5	4.6	21.1

Possible mounting forms

Basic mountings	Other type of mounting				
IM B3	IM V5	IM V6	IM B6	IM B7	IM B8
IM 1001	IM 1011	IM 1031	IM 1051	IM 1061	IM 1071
					
IM B35	IM V15	IM V35	IM V37	IM B34	IM V17
IM 2001	IM 2011	IM 2031	IM 2031	IM 2101	IM 2111
					
IM V37	IM B5	IM V1	IM V3	IM B14	IM V18
IM 2131	IM 3001	IM 3011	IM 3031	IM 3601	IM 3611
					
IM V19					
IM 3631					
					

Radial loads (kN) - Europe 50 Hz							
Maximum permissible radial load (kN) - 50 Hz - 20,000 hours							
Position		Horizontal		Vertical with shaft upwards		Vertical with shaft downwards	
Frame (IEC)	Poles	L	L/2	L	L/2	L	L/2
63M	2	0.3	0.2	0.3	0.2	-	-
	4	0.3	0.4	0.3	0.4	0.3	0.4
71M	2	0.4	0.4	0.4	0.4	0.4	0.4
	4	0.4	0.5	0.4	0.5	0.4	0.5
80M	2	0.6	0.7	0.6	0.7	0.6	0.7
	4	0.6	0.9	0.6	0.9	0.6	0.9
90	2	0.7	0.8	0.7	0.8	0.7	0.8
	4	0.9	1.0	0.9	1.0	0.9	1.0
100L	2	0.9	1.0	0.9	1.0	0.9	1.0
	4	1.2	1.3	1.2	1.3	1.2	1.3
112L	2	1.0	1.1	1.0	1.1	1.0	1.1
	4	1.2	1.4	1.2	1.4	1.2	1.4
132S/M	2	1.5	1.7	1.5	1.7	1.5	1.7
	4	1.9	2.1	1.9	2.1	1.9	2.1
160M	2	1.1	1.2	1.5	1.7	0.7	0.8
	4	1.7	1.9	1.9	2.1	1.2	1.4
160L	2	2.0	2.3	2.2	2.4	1.7	1.9
	4	2.3	2.5	2.4	2.7	2.1	2.4
180M	2	1.1	1.2	1.6	1.7	0.6	0.7
	4	1.7	1.9	1.9	2.2	1.1	1.2
180L	2	2.1	2.3	2.2	2.5	1.6	1.7
	4	2.1	2.6	2.5	2.8	2.0	2.2
200M	2	1.9	2.1	2.1	2.3	1.3	1.4
	4	2.4	2.7	2.6	2.9	1.8	2.0
200L	2	2.8	3.1	3.0	3.4	2.6	2.9
	4	3.1	3.5	3.3	3.7	3.2	3.5
225S/M	2	1.9	2.1	2.2	2.4	1.2	1.3
	4	2.4	2.6	2.7	2.9	1.7	1.8
225S/M	2	2.8	3.1	3.1	3.4	2.5	2.7
	4	3.1	3.5	3.4	3.7	3.1	3.4
250S/M	2	2.4	2.6	2.6	2.8	1.7	1.8
	4	3.0	3.3	3.2	3.5	2.5	2.8
250S/M	2	3.4	3.7	3.7	4.0	3.2	3.5
	4	3.8	4.1	4.1	4.5	3.9	4.3
250S/M	2	2.4	2.6	2.6	2.9	1.5	1.7
	4	3.0	3.3	3.3	3.6	2.4	2.7
250S/M	2	3.4	3.7	3.7	4.1	3.1	3.4
	4	3.8	4.2	4.1	4.5	3.8	4.2
250S/M	2	2.7	2.9	3.0	3.2	1.6	1.8
	4	3.2	3.6	3.5	3.9	2.5	2.8
250S/M	2	3.8	4.2	4.1	4.5	3.4	3.8
	4	4.2	4.7	4.5	5	4.1	4.6
250S/M	2	2.8	3.0	3.1	3.4	1.3	1.4
	4	3.3	3.6	3.7	4.1	2.1	2.3
250S/M	2	3.8	4.2	4.3	4.7	2.7	3.0
	4	4.2	4.7	4.7	5.2	3.5	3.9
250S/M	2	2.6	2.8	3.1	3.4	0.8	0.9
	4	3.2	3.5	3.8	4.1	1.3	1.4
250S/M	2	3.6	4.0	4.3	4.7	1.8	2.0
	4	4.1	4.5	4.8	5.3	2.6	2.9

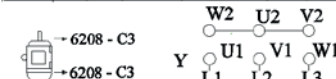
Radial loads (kN) - Europe 50 Hz							
Maximum permissible radial load (kN) - 50 Hz - 20,000 hours							
Position		Horizontal		Vertical with shaft upwards		Vertical with shaft downwards	
Frame (IEC)	Poles	L	L/2	L	L/2	L	L/2
W280S/M	2	4.8	5.3	5.3	5.7	4.3	4.7
	4	7.1	7.8	7.7	8.4	7.4	8.1
280S/M	2	8.1	8.9	8.9	9.7	8.8	9.5
	4	5.9	6.5	7.6	8.6	7.6	8.6
W315S/M	2	4.7	5.1	5.6	6.0	2.0	2.2
	4	6.9	7.5	8.1	8.7	4.5	4.9
315S/M	2	7.8	8.5	9.2	10.0	5.7	6.1
	4	7.9	8.6	10.2	11.1	7.4	8.1
315L	2	4.8	5.2	5.6	6.1	2.0	2.2
	4	8.6	9.4	9.7	10.6	7.2	7.8
355M/L	2	9.4	10.7	9.4	12.2	8.5	9.3
	4	4.9	6.3	7.6	10.9	7.6	9.4
355M/L	2	2.2	4.4	2.2	4.4	0.8	0.8
	4	8.2	8.9	8.9	10.5	5.3	5.7
355M/L	2	7.6	9.0	8.4	11.7	5.9	6.5
	4	4.0	4.8	8.4	12.0	7.7	8.4
355M/L	2	4.2	4.5	3.2	3.4	0.0	0.0
	4	8.0	8.6	8.4	9.0	3.5	3.7
355M/L	2	8.9	9.6	8.3	8.9	3.8	4.1
	4	10.0	10.8	10.0	10.8	5.5	6.0
355M/L	2	5.0	5.4	3.6	3.8	0.0	0.0
	4	10.1	11.0	10.6	11.5	4.4	4.8
355M/L	2	11.6	12.7	11.7	12.7	5.7	6.3
	4	13.0	14.2	13.9	15.1	8.1	8.8

NAMEPLATE DETAILS

W20 Marine 

W3EA1324B3T001MR
3~ 132-2 IP55 DES N IEC 60034-1
54.3KG1000m.a.s.l. INS cl. F DT 80K AMB 45°C SF 1.0

V	Hz	kW	RPM	A	PF	DUTY	IEcode	η100%
400Δ	50	5.5	1460	10.7	0.83	S1	IE3	89.6
460Δ	60	5.5	1765	9.2	0.82	S1	IE3	91.7
440Δ	60	7.4	1750	13	0.86	S1	IE1	87.5
440Δ	60	7.4	1750	13	0.86	S2 60MIN	IE1	87.5
440Δ	60	7.7	1740	13.4	0.86	S2 30MIN	IE1	87.5

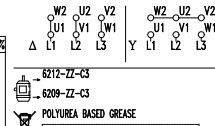
19303775  **MP05988379 01012026**

Nameplate layout for frames 63 to 132

W20 Marine 

W3EA1324B3T001MR
3~ 200M/L-02 IP55 DES N IEC 60034-1
252kg 1000m.a.s.l. INS cl. F DT 80K AMB 45°C SF 1.00

V	Hz	kW	RPM	A	PF	DUTY	IE code	100%
400Δ	60Y	50	37	2958	66.3	38.4	0.86	S1 IE3 93.7
460Δ	-	60	37	3565	59.5	-	0.84	S1 IE3 93.0
440Δ	-	60	46	3550	75.7	-	0.87	S1 IE1 91.7
440Δ	-	60	46	3550	75.7	-	0.87	S2 60MIN IE1 91.7
440Δ	-	60	48	3540	78.1	-	0.88	S2 30MIN IE1 91.7

19277564  **POLYUREA BASED GREASE**

Nameplate layout for frames 160 to 355

“

WHEN YOU LACK MACHINES,
YOU CAN BUY THEM.

IF YOU DO NOT HAVE MONEY,
YOU CAN BORROW IT.

BUT YOU CANNOT BUY OR
BORROW PEOPLE, AND

people who are
motivated by an idea
are the basis of
SUCCESS.”

Eggon João da Silva



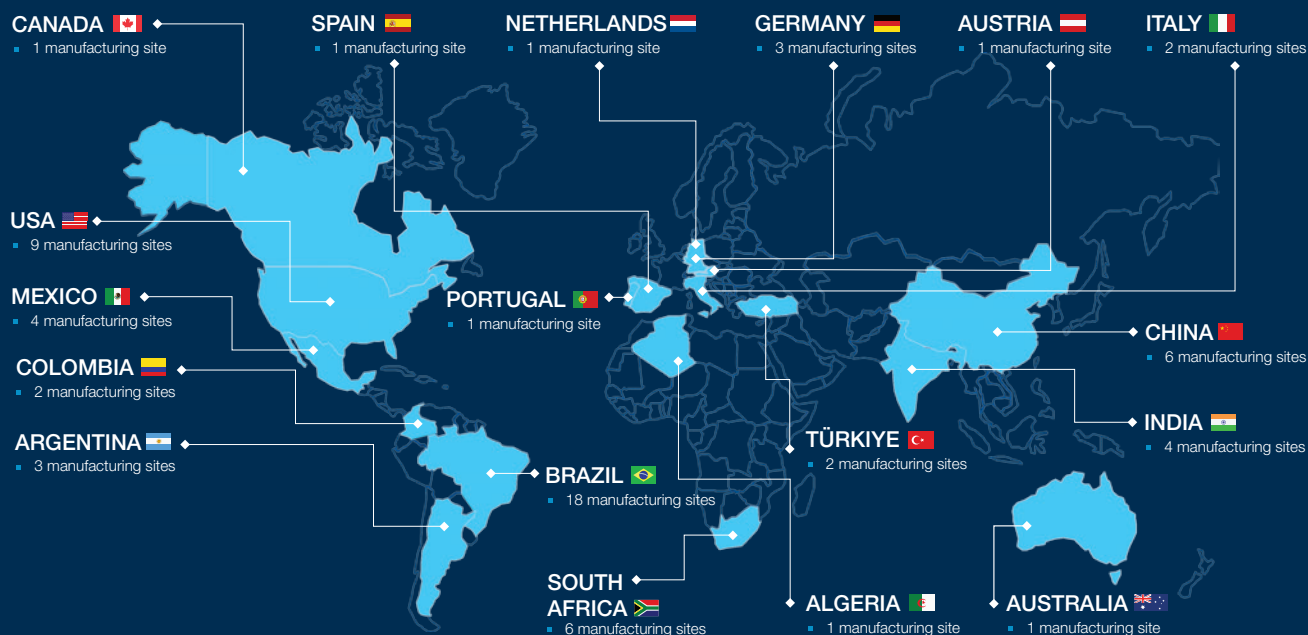
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| ■ Austria | ■ Denmark | ■ India | ■ Netherlands | ■ Singapore | ■ United Arab Emirates |
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The values shown are subject to change without prior notice.
The information contained is reference values.