Industrial Motors

Commercial &
Appliance Motors

Automation &
Systems

Energy

Transmission &
Distribution

Coatings

W20 MARINE

The smart choice for marine equipment.

Driving efficiency and sustainability

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

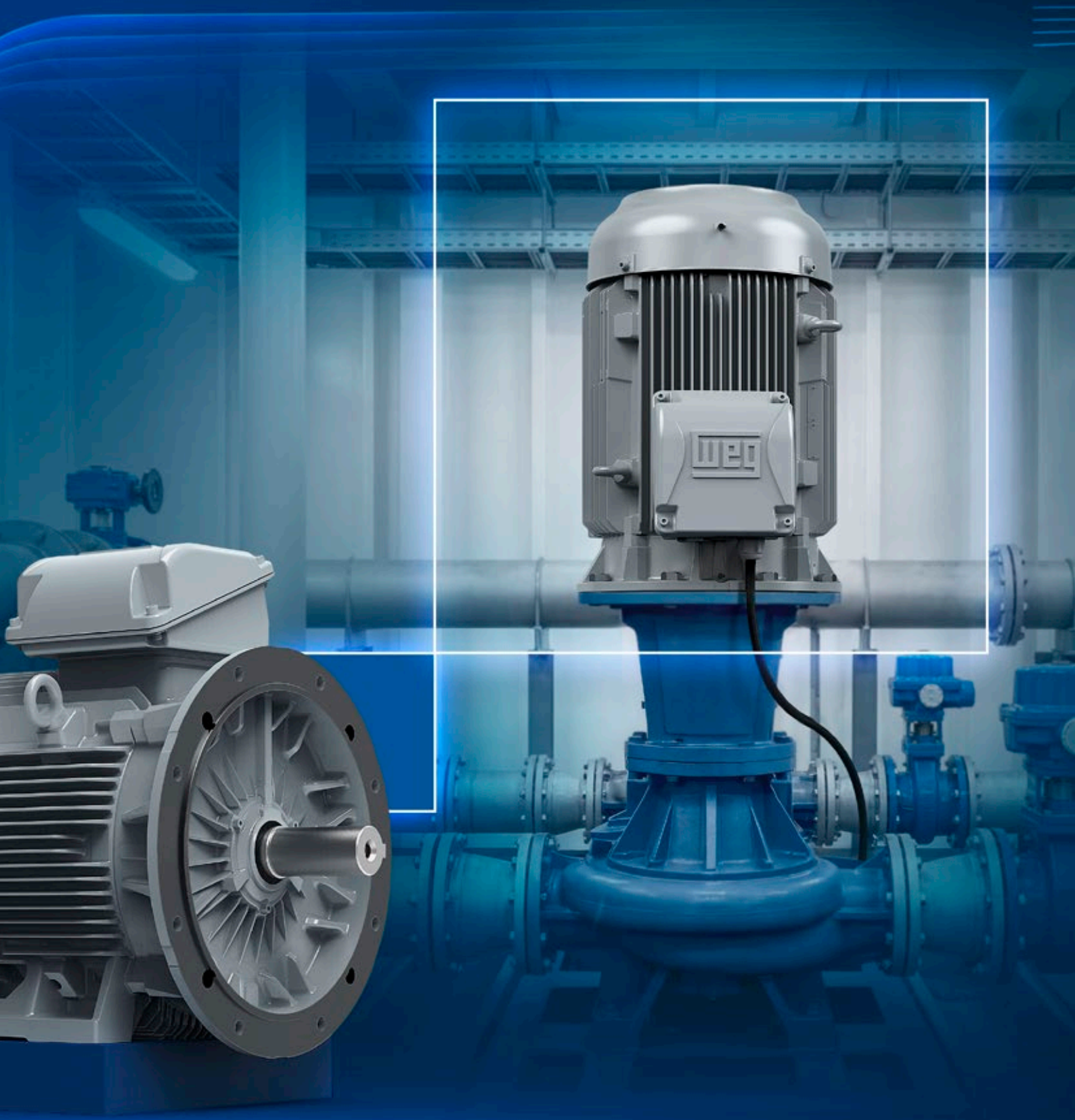
CE marking certification

PTC thermistor as standard from frame size 63 to 355

ABS · BUREAU VERITAS · ClassNK NIPPON KAIJI KYOKAI · DNV · LR · RINA

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

www.weg.net



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.

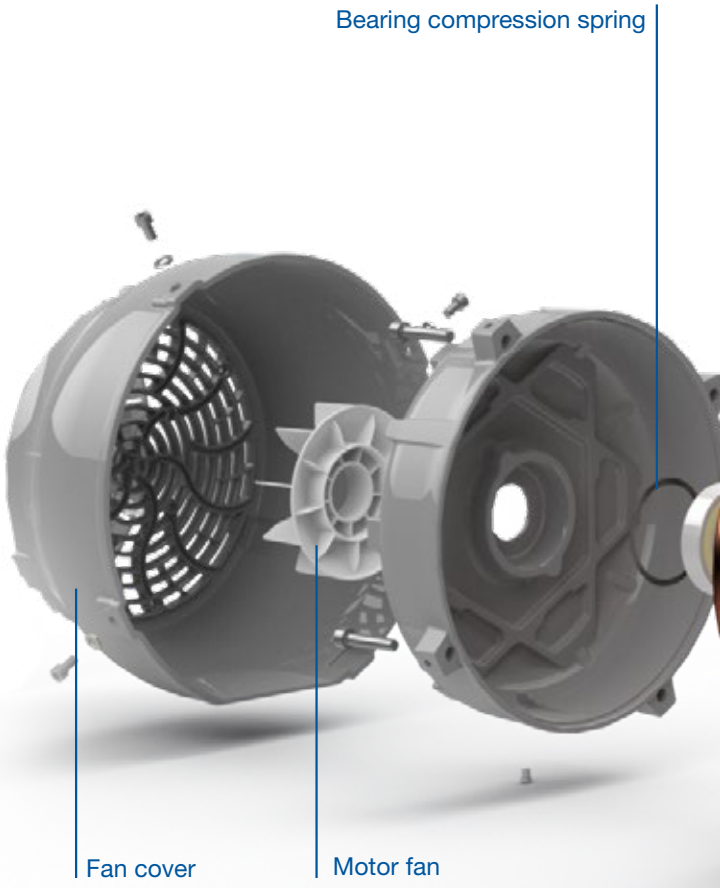
Typical applications

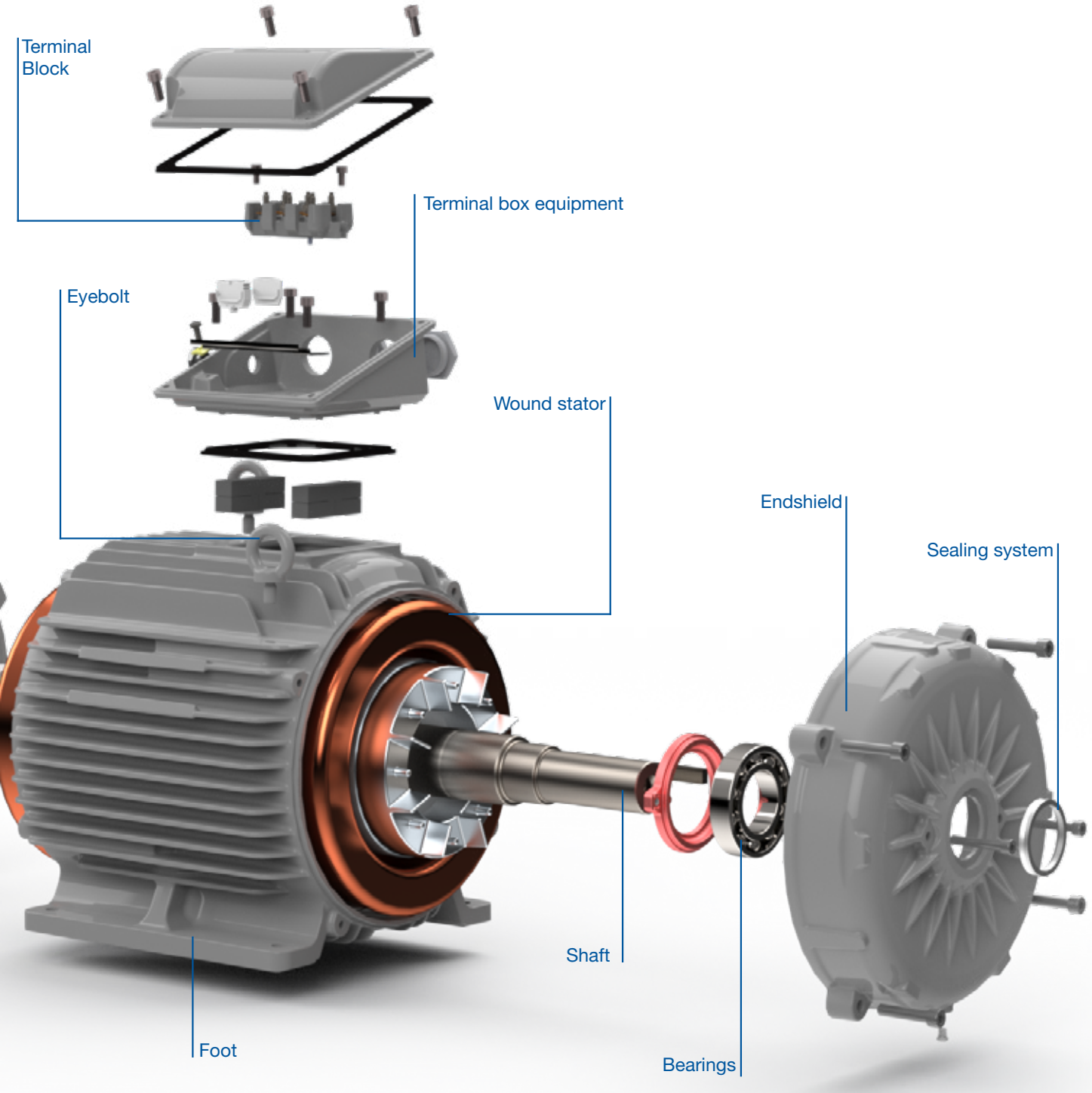
HVAC systems (heating, ventilation and air conditioning)

Pumps

HPUs

Auxiliary systems




Terminal Block
Terminal box equipment
Eyebolt
Wound stator
Endshield
Sealing system
Shaft
Foot
Bearings

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		Aluminum							
Degree of protection			IP55							
Grounding			Single grounding							
Cooling method			TEFC							
Fan	Material		Plastic							
Fan cover			Steel							
Endshields			Aluminum							
Drain plug			-							
Rolling bearings	Shielded/clearance DE		ZZ-C3							
	Shielded/clearance NDE		ZZ-C3							
	Locking		None							
	Bearing life (h)		20,000h							
	Drive end side	Endshields	6201	6202	6204	6205		6206		6208
		Flanges								
	Non drive end side	ALL	6201	6202	6204	6205			6205/6206	6208
Sleeve bearings	Axial end play		—							
	Locking		—							
	Bearing life (h)		—							
	Drive end side		—							
			—							
	Non drive end side		—							
			—							
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		Aluminum							
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		C3							
	Color		RAL 7042							
	Tropicalized		None							
Packaging			Cardboard box							
Electrical features										
Design			N							
Voltage (50/60Hz)			230/400//440-460 V C/W 6 cables						400//440-460 V C/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							

Technical features

Frame size			160M	160L	180M	180L	200M	200M/L	W225S/M	225S/M	250S/M	W280S/M	W315S/M	315S/M	315L[1)]	355M/L[1)]
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	2P (IE3/IE4)	Plastic													
		4P														
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)	2P	ZZ-C3							C3						
		4P	ZZ-C3							C3						
	Shielded/ clearance (NDE)	2P	ZZ-C3							C3						
		4P	ZZ-C3							C3						
	Locking		DE bearing locked with inner bearing cap and fitted with wave washer in the NDE bearing										DE bearing locked with inner and outer bearing cap and fitted with helical spring washer in the NDE bearing			
	Bearing life (h)		20,000h													
	Drive end side	2P	6209		6211		6212		6214			6314				6316
		4P										6316	6319			6322
	Non drive end side	2P	6209							6212			6314			
		4P											6314	6316		6319
Bearing sealing	Drive end side		V'ring						WSeal							
	Non drive end side		V'ring										WSeal			
Joints sealing			None													
Lubrication	Grease type		Mobil Polyrex EM													
	Grease fitting	2P	None							With grease fittings in DE and NDE bearings						
		4P	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														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		C3													
	Color		Matte Gray RAL 7042													
	Tropicalized		None													
Packaging			Crate													
Electrical features																
Design			N													
Voltage (50/60Hz)			400//440-460 V C/W 6 cables													
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 online													
Insulated bearing hub			None													

Notes: IE4 available for outputs from 75 kW on.

1) Air baffle required for output power equal or above the below table (only for TEFC / TEBC / TFVE / TFVF).

Electrical tables

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

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current Il/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V							
													Rated speed (rpm)	% of full load						Full load current In (A)
														Efficiency			Power factor			
	kW	HP							Hot	Cold				50	75	100	50	75	100	
II poles																				
1	0.12	0.16	63M	0.04	5.8	7.2	7.0	0.0002	34.0	75.0	6.3	75.0	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	24.0	53.0	6.3	75.0	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	20.0	44.0	6.3	75.0	2,780	62.5	68.4	69.7	0.54	0.67	0.76	0.68
4	0.37	0.50	71M	0.13	6.2	2.9	3.3	0.0004	20.0	44.0	8.1	80.0	2,860	66.9	72.5	73.8	0.57	0.70	0.79	0.92
5	0.55	0.75	71M	0.19	6.7	3.5	3.5	0.0004	20.0	44.0	9.0	80.0	2,840	73.5	77.5	77.8	0.61	0.74	0.82	1.24
6	0.75	1.00	80M	0.25	6.9	2.6	3.3	0.0009	12.0	26.0	12.2	80.0	2,890	76.2	79.7	80.7	0.61	0.74	0.82	1.64
7	1.10	1.50	80M	0.37	7.4	2.8	3.6	0.0011	8.0	18.0	13.9	80.0	2,890	80.1	82.7	82.7	0.62	0.75	0.83	2.31
8	1.50	2.00	90S	0.50	8.7	3.7	3.8	0.0010	12.0	26.0	17.4	80.0	2,895	83.6	84.2	84.2	0.65	0.80	0.83	3.10
9	2.20	3.00	90L	0.74	9.8	4.4	4.2	0.0024	12.0	26.0	21.4	80.0	2,910	84.0	85.9	85.9	0.71	0.82	0.87	4.25
10	3.00	4.00	100L	1.00	9.7	3.0	4.2	0.0050	10.0	22.0	30.3	85.0	2,930	85.3	87.0	87.1	0.75	0.85	0.89	5.59
11	4.00	5.50	112M	1.33	10.0	3.1	4.0	0.0063	8.0	18.0	35.8	85.0	2,935	87.3	88.1	88.1	0.80	0.87	0.91	7.20
12	5.50	7.50	132S/M	1.82	10.5	3.5	4.0	0.0163	16.0	35.0	56.0	83.0	2,945	87.4	88.9	89.2	0.82	0.88	0.91	9.78
13	7.50	10.0	132S/M	2.48	10.4	3.7	3.9	0.0218	23.0	51.0	68.0	83.0	2,940	89.5	90.1	90.1	0.85	0.90	0.92	13.1
14	9.20	12.5	132S/M	3.04	11.2	4.2	4.1	0.0277	21.0	46.0	82.3	83.0	2,945	90.4	90.7	90.7	0.85	0.90	0.92	15.9
15	11.0	15.0	160M	3.63	7.2	2.7	3.2	0.0404	8.0	18.0	110.0	67.0	2,950	89.8	90.8	91.2	0.69	0.79	0.85	20.5
16	15.0	20.0	160M	4.96	7.8	2.7	3.6	0.0514	8.0	18.0	120.0	67.0	2,945	90.8	91.8	91.9	0.70	0.81	0.86	27.4
17	18.5	25.0	160L	6.11	8.7	3.8	4.1	0.0625	8.0	18.0	135.0	67.0	2,950	91.1	92.2	92.4	0.68	0.79	0.85	34.0
18	22.0	30.0	180M	7.24	7.8	2.2	3.4	0.0919	6.0	13.0	165.0	67.0	2,960	91.3	92.4	92.7	0.71	0.81	0.86	39.8
19	30.0	40.0	200M/L	9.87	6.9	2.8	3.2	0.1611	12.0	26.0	230.0	72.0	2,960	92.0	93.2	93.3	0.71	0.81	0.85	54.6
20	37.0	50.0	200M/L	12.18	7.2	3.1	2.9	0.1865	8.0	18.0	250.0	72.0	2,958	92.5	93.4	93.7	0.72	0.82	0.86	66.3
21	45.0	60.0	225S/M	14.78	7.8	2.9	3.3	0.2601	8.0	18.0	340.0	74.0	2,965	92.1	93.3	94.0	0.71	0.80	0.85	81.3
22	55.0	75.0	250S/M	18.07	7.7	2.9	3.2	0.3384	12.0	26.0	415.0	74.0	2,965	92.6	93.6	94.3	0.73	0.82	0.85	99.0
23	75.0	100.0	W280S/M	24.65	7.6	2.9	2.9	0.5075	14.0	31.0	520.0	74.0	2,963	93.7	94.3	94.7	0.81	0.87	0.89	128.0
24	90.0	125.0	W280S/M	29.61	7.6	3.0	3.1	0.4568	20.0	44.0	520.0	74.0	2,960	93.9	94.6	95.0	0.77	0.84	0.87	157.0
25	110.0	150.0	W315S/M	36.07	7.0	1.8	2.6	0.9776	26.0	57.0	745.0	77.0	2,970	93.8	94.6	95.2	0.78	0.85	0.87	192.0
26	132.0	175.0	W315S/M	43.22	7.0	2.0	2.7	1.1998	21.0	46.0	800.0	77.0	2,975	94.4	95.2	95.4	0.80	0.86	0.88	227.0
27	160.0	220.0	W315S/M	52.38	8.6	2.0	2.6	1.7331	19.0	42.0	945.0	77.0	2,975	94.7	95.3	95.6	0.84	0.88	0.90	268.0
28	185.0	250.0	315S/M	60.49	7.4	2.3	2.9	2.6937	30.0	66.0	1,100	77.0	2,979	95.5	95.7	95.7	0.81	0.87	0.89	314.0
29	200.0	270.0	315S/M	65.28	7.5	2.3	2.6	2.6937	26.0	57.0	1,100	77.0	2,984	95.4	95.8	95.8	0.81	0.87	0.89	339.0
30	250.0	340.0	315L	81.60	7.5	2.5	2.4	3.4245	20.0	44.0	1,300	78.0	2,984	95.0	95.8	95.8	0.82	0.86	0.89	423.0
31	315.0	430.0	355M/L	102.78	7.9	2.5	2.5	5.1474	30.0	66.0	1,680	80.0	2,985	95.5	95.8	95.8	0.84	0.89	0.90	527.0
32	355.0	480.0	355M/L	115.72	8.7	2.7	3.0	6.0053	25.0	55.0	1,820	80.0	2,988	95.3	95.8	95.8	0.81	0.87	0.89	601.0
IV poles																				
33	0.12	0.16	63M	0.08	3.5	2.6	2.8	0.0002	36.0	79.0	6.1	75.0	1,395	52.5	60.3	64.8	0.39	0.49	0.59	0.45
34	0.18	0.25	63M	0.13	3.7	2.9	2.6	0.0002	28.0	62.0	6.2	75.0	1,370	49.7	58.2	69.9	0.39	0.49	0.60	0.62
35	0.25	0.33	71M	0.17	4.9	2.4	2.9	0.0007	28.0	62.0	8.2	75.0	1,420	66.7	72.2	73.5	0.45	0.58	0.68	0.72
36	0.37	0.50	71M	0.26	5.0	2.6	2.7	0.0007	28.0	62.0	9.0	75.0	1,405	73.6	77.0	77.3	0.49	0.63	0.73	0.95
37	0.55	0.75	80M	0.37	6.3	3.1	3.3	0.0021	24.0	53.0	11.9	75.0	1,435	76.5	80.0	80.8	0.52	0.66	0.75	1.31
38	0.75	1.00	80M	0.51	6.4	2.9	3.2	0.0026	20.0	44.0	13.5	75.0	1,430	79.8	82.1	82.5	0.56	0.70	0.78	1.68
39	1.10	1.50	90S	0.75	6.8	3.4	3.5	0.0030	22.0	48.0	16.8	75.0	1,435	82.5	84.0	84.1	0.52	0.67	0.76	2.48
40	1.50	2.00	90L	1.01	7.4	3.9	3.9	0.0045	16.0	35.0	20.9	75.0	1,440	83.0	85.0	85.3	0.54	0.68	0.77	3.30
41	2.20	3.00	100L	1.48	8.4	3.9	4.1	0.0081	16.0	35.0	30.5	78.0	1,450	86.2	86.7	86.7	0.56	0.70	0.78	4.70
42	3.00	4.00	100L	2.02	7.8	4.0	3.9	0.0081	16.0	35.0	30.4	78.0	1,445	85.0	86.6	87.7	0.54	0.68	0.77	6.41
43	4.00	5.50	112M	2.68	8.2	4.1	4.3	0.0127	12.0	26.0	38.5	78.0	1,455	86.8	88.2	88.6	0.54	0.67	0.76	8.57
44	5.50	7.50	132S/M	3.67	8.6	3.5	3.5	0.0370	24.0	53.0	69.0	83.0	1,460	89.6	89.6	89.6	0.67	0.78	0.83	10.7
45	7.50	10.0	132S/M	4.99	9.1	4.3	3.9	0.0423	12.0	26.0	75.0	83.0	1,465	90.1	90.4	90.4	0.64	0.75	0.81	14.8
46	11.0	15.0	160M	7.26	6.9	2.5	3.4	0.1048	8.0	18.0	115.0	59.0	1,475	90.1	91.0	91.4	0.64	0.75	0.82	21.2
47	15.0	20.0	160L	9.91	7.1	2.6	3.4	0.1467	8.0	18.0	145.0	59.0	1,475	91.3	92.0	92.1	0.67	0.78	0.84	28.0
48	18.5	25.0	180M	12.22	6.7	2.6	3.2	0.1740	8.0	18.0	175.0	62.0	1,475	92.0	92.5	92.6	0.67	0.78	0.83	34.7
49	22.0	30.0	180L	14.53	7.5	3.5	3.7	0.2088	8.0	18.0	206.4	62.0	1,475	91.9	92.8	93.0	0.63	0.75	0.82	41.6
50	30.0	40.0	200M/L	19.74	7.2	2.6	3.1	0.3074	8.0	18.0	256.03	63.0	1,480	93.2	93.6	93.6	0.68	0.79	0.84	55.1
51	37.0	50.0	W225S/M	24.38	7.8	2.8	3.1	0.3743	8.0	18.0	280.0	63.0	1,478	93.1	93.8	93.9	0.67	0.78	0.83	68.5
52	45.0	60.0	225S/M	29.61	7.3	3.0	3.3	0.5406	19.0	42.0	362.46	64.0	1,480	93.0	94.0	94.2	0.68	0.78	0.83	83.1
53	55.0	75.0	250S/M	36.07	7.6	2.9	3.2	0.7756	12.0	26.0	445.42	64.0	1,485	93.6	94.3	94.6	0.68	0.78	0.83	101.0
54	75.0	100.0	W280S/M	49.29	7.9	2.8	2.9	1.0791	15.0	33.0	548.1	64.0	1,482	94.4	95.0	95.0	0.73	0.82	0.85	134.0

Electrical tables

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

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current Il/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V							
													Rated speed (rpm)	% of full load						Full load current In (A)
														Efficiency			Power factor			
	kW	HP							Hot	Cold				50	75	100	50	75	100	
IV poles																				
55	90.0	125.0	W280S/M	59.07	7.8	3.3	3.5	1.0116	16.0	35.0	550.0	64.0	1,484	94.3	95.1	95.2	0.67	0.77	0.82	166.0
56	110.0	150.0	W315S/M	72.15	6.8	2.2	2.6	1.9090	12.0	26.0	780.0	71.0	1,485	94.5	95.0	95.4	0.67	0.77	0.82	203.0
57	132.0	175.0	W315S/M	86.58	7.0	2.3	2.0	2.4435	17.0	37.0	829.25	71.0	1,485	95.0	95.6	95.6	0.70	0.78	0.82	243.0
58	160.0	220.0	W315S/M	104.94	8.0	2.4	2.5	3.2835	14.0	31.0	990.0	71.0	1,485	95.3	95.7	95.8	0.71	0.80	0.83	290.0
59	185.0	250.0	315S/M	121.10	7.5	2.7	2.7	3.9970	25.0	55.0	1,080	71.0	1,488	95.5	95.9	95.9	0.72	0.81	0.85	328.0
60	200.0	270.0	315S/M	130.74	7.7	2.7	2.8	4.3301	24.0	53.0	1,125	71.0	1,490	95.3	96.0	96.0	0.74	0.82	0.86	350.0
61	250.0	340.0	315L	163.42	7.4	2.8	2.6	5.3048	21.0	46.0	1,310	73.0	1,490	95.8	96.0	96.0	0.72	0.81	0.85	437.0
62	315.0	430.0	315L	205.91	8.3	3.1	2.8	6.8521	17.0	37.0	1,622.59	73.0	1,490	95.9	96.0	96.0	0.74	0.82	0.86	551.0
63	355.0	480.0	355M/L	231.90	7.1	2.3	2.3	10.5603	25.0	55.0	1,840	78.0	1,491	95.3	96.0	96.0	0.71	0.80	0.84	635.0
VI poles																				
64	0.18	0.25	71M	0.19	3.5	2.1	2.2	0.0008	47.0	103.0	8.0	75.0	930.0	53.9	61.3	63.9	0.42	0.54	0.64	0.64
65	0.25	0.33	80M	0.26	4.1	2.4	2.7	0.0016	53.0	117.0	10.0	75.0	950.0	59.3	66.5	68.6	0.40	0.51	0.61	0.86
66	0.37	0.50	80M	0.38	4.1	2.2	2.4	0.0021	51.0	112.0	12.0	75.0	940.0	67.8	72.4	73.5	0.45	0.58	0.68	1.07
67	0.55	0.75	90S	0.56	4.8	2.2	2.5	0.0033	60.0	132.0	16.0	75.0	950.0	75.5	77.2	77.2	0.44	0.57	0.67	1.53
68	0.75	1.00	90S	0.78	4.5	2.3	2.2	0.0033	32.0	70.0	17.0	75.0	935.0	74.9	77.8	78.9	0.46	0.6	0.69	1.99
69	1.10	1.50	100L	1.12	7.0	3.5	3.3	0.0081	40.0	88.0	30.0	80.0	960.0	80.7	81.0	81.0	0.56	0.69	0.77	2.55
70	1.50	2.00	112M	1.51	6.2	2.8	3.2	0.0195	40.0	88.0	37.0	77.0	965.0	82.0	82.5	82.5	0.45	0.58	0.68	3.86
71	2.20	3.00	132S/M	2.19	9.7	3.0	3.5	0.0605	48.0	106.0	74.0	83.0	979.0	84.0	84.3	84.3	0.64	0.75	0.81	4.65
72	3.00	4.00	132S/M	2.99	9.6	3.0	3.4	0.0656	44.0	97.0	78.0	83.0	978.0	85.2	85.6	85.6	0.65	0.76	0.82	6.17
73	4.00	5.50	132S/M	3.99	10.1	3.9	3.8	0.0656	20.0	44.0	78.0	83.0	977.0	86.7	86.8	86.8	0.62	0.74	0.80	8.31

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

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current Il/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V							
													Rated speed (rpm)	% of full load						Full load current In (A)
														Efficiency			Power factor			
	kW	HP							Hot	Cold				50	75	100	50	75	100	
II poles																				
74	75.0	100.0	W280S/M	24.64	8.3	3.2	3.4	0.4568	32.0	70.0	520.0	74.0	2,965	93.9	94.7	95.6	0.76	0.84	0.87	130.0
75	90.0	125.0	W280S/M	29.52	8.8	3.4	3.4	0.5414	20.0	44.0	565.0	74.0	2,970	94.2	95.0	95.8	0.78	0.85	0.88	154.0
76	110.0	150.0	W315S/M	35.98	8.1	2.4	3.0	1.2443	20.0	44.0	815.0	77.0	2,978	94.0	95.0	96.0	0.78	0.85	0.88	188.0
77	132.0	175.0	W315S/M	43.19	7.8	2.2	2.9	1.4664	23.0	51.0	875.0	77.0	2,977	94.7	95.5	96.2	0.80	0.87	0.89	223.0
78	160.0	220.0	315S/M	52.24	7.0	2.1	2.7	2.2447	37.0	81.0	1,015	77.0	2,983	95.1	95.8	96.3	0.80	0.87	0.88	273.0
79	200.0	270.0	315S/M	65.24	8.5	2.4	3.3	2.7685	23.0	51.0	1,115	77.0	2,986	95.0	95.9	96.5	0.78	0.85	0.88	340.0
80	250.0	340.0	315L	81.55	8.8	2.9	3.2	3.5916	18.0	40.0	1,330	78.0	2,986	95.1	96.1	96.5	0.79	0.86	0.89	420.0
81	315.0	430.0	355M/L	102.78	7.6	2.4	2.4	5.2547	31.0	68.0	1,700	80.0	2,985	95.4	96.0	96.5	0.82	0.87	0.89	529.0
82	355.0	480.0	355M/L	115.72	8.7	2.7	3.0	6.0053	23.0	51.0	1,825	80.0	2,988	95.3	96.0	96.5	0.81	0.87	0.89	597.0
IV poles																				
83	75.0	100.0	W280S/M	49.19	8.0	3.4	3.5	1.0757	31.0	68.0	560.0	64.0	1,485	95.0	95.6	96.0	0.69	0.79	0.83	136.0
84	90.0	125.0	W280S/M	59.03	7.9	3.6	3.6	1.2102	16.0	35.0	595.0	64.0	1,485	95.1	95.7	96.1	0.64	0.76	0.81	167.0
85	110.0	150.0	W315S/M	72.00	7.7	2.7	3.0	2.5962	16.0	35.0	890.0	71.0	1,488	95.2	95.8	96.3	0.66	0.77	0.82	201.0
86	132.0	175.0	W315S/M	86.40	8.0	2.9	3.1	2.8253	17.0	37.0	925.0	71.0	1,488	95.3	95.9	96.4	0.66	0.76	0.82	241.0
87	160.0	220.0	315S/M	104.45	7.8	3.0	3.0	4.2191	33.0	73.0	1,115	71.0	1,492	95.5	96.2	96.6	0.73	0.82	0.86	278.0
88	200.0	270.0	315S/M	130.65	7.7	3.0	2.8	5.3294	29.0	64.0	1,255	71.0	1,491	95.8	96.4	96.7	0.76	0.84	0.87	343.0
89	250.0	340.0	315L	163.53	6.9	2.6	2.6	5.6364	26.0	57.0	1,365	73.0	1,489	96.1	96.6	96.7	0.75	0.83	0.86	429.0
90	315.0	430.0	315L	205.91	7.9	3.1	2.8	6.8521	18.0	40.0	1,505	73.0	1,490	96.0	96.5	96.7	0.74	0.83	0.86	547.0
91	355.0	480.0	355M/L	231.75	7.5	2.9	2.9	11.0972	20.0	44.0	1,930	78.0	1,492	95.3	96.2	96.7	0.72	0.80	0.84	631.0

Electrical tables

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

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current Il/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							
													Rated speed (rpm)	% of full load						Full load current In (A)
														Efficiency			Power factor			
	kW	HP							Hot	Cold				50	75	100	50	75	100	
II poles																				
1	0.12	0.16	63M	0.03	7.1	9.0	9.1	0.0002	28.0	62.0	6.3	56.0	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	20.0	44.0	6.3	56.0	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	20.0	44.0	6.3	56.0	3,405	63.9	69.5	69.5	0.50	0.63	0.72	0.63
4	0.37	0.50	71M	0.10	7.6	3.9	4.3	0.0004	16.0	35.0	8.1	61.0	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	20.0	44.0	9.0	61.0	3,460	74.2	76.8	76.8	0.58	0.71	0.79	1.14
6	0.75	1.00	80M	0.21	8.3	2.9	4.2	0.0009	8.0	18.0	12.2	65.0	3,500	77.0	77.0	77.0	0.57	0.71	0.79	1.55
7	1.10	1.50	80M	0.31	9.0	3.4	4.5	0.0011	8.0	18.0	13.9	65.0	3,500	80.9	84.0	84.0	0.59	0.72	0.81	2.03
8	1.50	2.00	90S	0.42	10.8	4.3	4.4	0.0010	12.0	26.0	17.4	65.0	3,505	82.2	85.0	85.5	0.65	0.77	0.83	2.65
9	2.20	3.00	90L	0.61	11.9	5.2	4.9	0.0024	12.0	26.0	21.4	65.0	3520	84.3	86.5	86.5	0.70	0.80	0.86	3.71
10	3.00	4.00	100L	0.83	11.9	3.5	5.1	0.0050	10.0	22.0	30.3	78.0	3,535	85.2	87.5	88.5	0.73	0.83	0.88	4.83
11	4.00	5.50	112M	1.10	12.0	3.5	4.7	0.0063	8.0	18.0	35.8	78.0	3,540	87.3	88.5	88.5	0.78	0.86	0.90	6.30
12	5.50	7.50	132S/M	1.51	12.2	3.9	4.6	0.0163	16.0	35.0	56.0	78.0	3,550	87.2	89.3	89.5	0.81	0.87	0.90	8.57
13	7.50	10.0	132S/M	2.06	12.2	4.1	4.4	0.0218	23.0	51.0	68.0	78.0	3,545	89.3	90.2	90.2	0.84	0.90	0.92	11.3
14	9.20	12.5	132S/M	2.52	13.1	4.7	4.7	0.0277	21.0	46.0	82.3	78.0	3,550	90.2	90.2	90.2	0.85	0.89	0.92	13.9
15	11.0	15.0	160M	3.01	9.0	3.1	3.8	0.0404	12.0	26.0	110.0	72.0	3,555	89.2	90.9	91.0	0.64	0.76	0.82	18.5
16	15.0	20.0	160M	4.11	9.2	3.3	4.2	0.0514	8.0	18.0	120.0	72.0	3,555	90.5	91.0	91.0	0.66	0.78	0.84	24.6
17	18.5	25.0	160L	5.06	9.8	4.0	4.7	0.0625	9.0	20.0	135.0	72.0	3,560	90.9	91.7	91.7	0.64	0.76	0.83	30.5
18	22.0	30.0	180M	6.01	9.1	2.8	4.0	0.0919	8.0	18.0	165.0	72.0	3,566	91.3	91.7	91.7	0.67	0.78	0.83	36.3
19	30.0	40.0	200M/L	8.18	8.4	3.5	3.7	0.1611	16.0	35.0	230.0	77.0	3,570	91.3	92.4	92.4	0.68	0.79	0.83	49.1
20	37.0	50.0	200M/L	10.11	8.6	3.6	3.7	0.1865	12.0	26.0	250.0	77.0	3,565	91.9	93.0	93.0	0.69	0.79	0.84	59.5
21	45.0	60.0	225S/M	12.28	8.5	2.9	3.8	0.2601	12.0	26.0	340.0	79.0	3,570	91.7	93.3	93.6	0.66	0.77	0.83	72.7
22	55.0	75.0	250S/M	15.01	8.6	3.2	3.7	0.3384	16.0	35.0	415.0	79.0	3,570	92.0	93.5	93.6	0.68	0.79	0.84	87.8
23	75.0	100.0	W280S/M	20.46	8.3	3.3	3.4	0.5075	17.0	37.0	520.0	79.0	3,570	93.3	94.1	94.1	0.78	0.85	0.88	114.0
24	90.0	125.0	W280S/M	24.59	8.7	3.2	3.5	0.4568	26.0	57.0	520.0	79.0	3,565	93.7	94.7	95.0	0.74	0.83	0.87	137.0
25	110.0	150.0	W315S/M	29.96	7.9	2.0	2.8	0.9776	30.0	66.0	745.0	81.0	3,576	93.3	94.6	95.0	0.76	0.84	0.87	167.0
26	132.0	175.0	W315S/M	35.95	8.4	2.2	2.9	1.1998	26.0	57.0	800.0	81.0	3,576	94.0	95.1	95.4	0.79	0.85	0.88	197.0
27	160.0	220.0	W315S/M	43.56	8.5	2.4	2.9	1.7331	28.0	62.0	945.0	81.0	3,578	94.7	95.4	95.4	0.82	0.88	0.89	237.0
28	185.0	250.0	315S/M	50.26	8.5	2.7	3.3	2.6937	34.0	75.0	1,100	81.0	3,585	95.2	95.8	95.8	0.79	0.86	0.89	272.0
29	200.0	270.0	315S/M	54.32	8.5	2.7	3.0	2.6937	30.0	66.0	1,100	81.0	3,586	95.4	95.8	95.8	0.79	0.86	0.89	294.0
30	250.0	340.0	315L	67.90	8.7	3.1	2.9	3.4245	25.0	55.0	1,300	82.0	3,586	94.8	95.8	95.8	0.81	0.87	0.89	368.0
31	315.0	430.0	355M/L	85.56	8.9	3.0	3.0	5.1474	36.0	79.0	1,680	87.0	3,586	95.4	95.8	95.8	0.82	0.87	0.89	464.0
32	355.0	480.0	355M/L	96.34	9.9	3.2	3.6	6.0053	30.0	66.0	1,820	87.0	3,589	95.4	95.8	95.8	0.79	0.86	0.88	529.0
IV poles																				
33	0.12	0.16	63M	0.07	4.0	3.5	3.6	0.0002	32.0	70.0	6.1	55.0	1,705	54.3	62.5	66.0	0.35	0.44	0.53	0.43
34	0.18	0.25	63M	0.10	4.1	3.7	3.4	0.0002	28.0	62.0	6.2	55.0	1,695	52.7	61.3	69.5	0.34	0.44	0.53	0.61
35	0.25	0.33	71M	0.14	5.8	2.9	3.6	0.0007	24.0	53.0	8.2	59.0	1,730	68.5	73.4	73.4	0.41	0.53	0.63	0.68
36	0.37	0.50	71M	0.21	5.8	3.2	3.4	0.0007	28.0	62.0	9.0	59.0	1,715	75.3	78.2	78.2	0.45	0.59	0.68	0.87
37	0.55	0.75	80M	0.31	7.6	3.4	4.1	0.0021	20.0	44.0	11.9	59.0	1,745	77.2	81.1	81.1	0.49	0.62	0.72	1.18
38	0.75	1.00	80M	0.42	7.7	3.4	4.0	0.0026	20.0	44.0	13.5	59.0	1,740	80.4	83.4	83.5	0.52	0.66	0.75	1.50
39	1.10	1.50	90S	0.62	7.9	3.9	4.2	0.0030	25.5	56.0	16.8	59.0	1,745	82.5	85.3	86.5	0.5	0.63	0.73	2.19
40	1.50	2.00	90L	0.83	8.8	4.2	4.7	0.0045	16.0	35.0	20.9	59.0	1,750	83.6	86.1	86.5	0.51	0.65	0.74	2.94
41	2.20	3.00	100L	1.22	9.9	4.4	4.8	0.0081	16.0	35.0	30.5	67.0	1,755	86.4	88.4	89.5	0.53	0.67	0.75	4.11
42	3.00	4.00	100L	1.67	9.2	4.6	4.6	0.0081	17.0	37.0	30.4	67.0	1,750	85.8	87.8	89.5	0.52	0.66	0.75	5.61
43	4.00	5.50	112M	2.21	9.6	4.7	5.1	0.0127	12.0	26.0	38.5	67.0	1,760	87.4	89.2	89.5	0.51	0.65	0.74	7.58
44	5.50	7.50	132S/M	3.04	10	4.0	3.9	0.0370	24.0	53.0	69.0	67.0	1,765	90.2	91.3	91.7	0.64	0.76	0.82	9.18
45	7.50	10.0	132S/M	4.13	10.6	4.8	4.4	0.0423	16.0	35.0	75.0	67.0	1,770	90.1	91.3	91.7	0.61	0.73	0.80	12.8
46	11.0	15.0	160M	6.02	8.6	3.3	4.0	0.1048	8.0	18.0	115.0	63.0	1,780	90.5	91.9	92.4	0.58	0.71	0.78	19.2
47	15.0	20.0	160L	8.21	8.6	3.6	3.9	0.1467	8.0	18.0	145.0	63.0	1,779	91.9	92.9	93.0	0.62	0.74	0.81	25.0
48	18.5	25.0	180M	10.15	8.5	3.6	3.7	0.1740	12.0	26.0	175.0	65.0	1,775	92.1	93.2	93.6	0.62	0.75	0.81	30.6
49	22.0	30.0	180L	12.05	8.8	4.3	4.4	0.2088	8.0	18.0	206.4	65.0	1,778	91.9	93.2	93.6	0.58	0.71	0.80	36.9
50	30.0	40.0	200M/L	16.41	8.4	3.4	3.8	0.3074	8.0	18.0	256.03	65.0	1,781	93.2	94.1	94.1	0.63	0.75	0.81	49.4
51	37.0	50.0	W225S/M	20.23	8.4	3.2	3.9	0.3743	8.0	18.0	280.0	65.0	1,781	93.0	94.0	94.5	0.64	0.75	0.81	60.7
52	45.0	60.0	225S/M	24.57	8.4	3.2	3.6	0.5406	22.0	48.0	362.46	67.0	1,784	93.2	94.4	95.0	0.63	0.75	0.80	74.3
53	55.0	75.0	250S/M	29.98	8.4	3.2	3.5	0.7756	12.0	26.0	445.42	68.0	1,787	93.5	94.5	95.4	0.62	0.74	0.80	90.5

Electrical tables

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

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current Il/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							
													Rated speed (rpm)	% of full load						Full load current In (A)
														Efficiency			Power factor			
	kW	HP							Hot	Cold				50	75	100	50	75	100	
IV poles																				
54	75.0	100.0	W280S/M	40.95	8.5	3.3	3.3	1.0791	18.0	40.0	548.1	68.0	1,784	94.5	95.2	95.4	0.69	0.80	0.84	117.0
55	90.0	125.0	W280S/M	49.08	8.5	3.7	3.7	1.0116	20.0	44.0	550.0	68.0	1,786	94.5	95.4	95.4	0.64	0.75	0.81	146.0
56	110.0	150.0	W315S/M	59.96	7.6	2.5	2.9	1.9090	16.0	35.0	780.0	75.0	1,787	94.8	95.5	95.8	0.63	0.74	0.79	182.0
57	132.0	175.0	W315S/M	71.95	7.8	2.5	2.8	2.4435	23.0	51.0	829.25	75.0	1,787	95.3	95.9	96.2	0.66	0.76	0.81	213.0
58	160.0	220.0	W315S/M	87.21	7.9	2.8	2.9	3.2835	23.0	51.0	990.0	75.0	1,787	95.7	96.2	96.2	0.68	0.78	0.82	255.0
59	185.0	250.0	315S/M	100.61	8.2	3.1	3.1	3.9970	32.0	70.0	1,080	75.0	1,791	95.5	96.2	96.2	0.71	0.81	0.85	284.0
60	200.0	270.0	315S/M	108.71	8.4	3.2	3.2	4.3301	30.0	66.0	1,125	75.0	1,792	95.5	96.2	96.2	0.70	0.80	0.84	311.0
61	250.0	340.0	315L	135.96	8.2	3.2	3.1	5.3048	26.0	57.0	1,310	77.0	1,791	95.4	96.2	96.2	0.71	0.80	0.85	384.0
62	315.0	430.0	315L	171.21	8.8	3.6	3.3	6.8521	22.0	48.0	1,622.59	77.0	1,792	95.7	96.2	96.2	0.70	0.80	0.85	484.0
63	355.0	480.0	355M/L	192.95	8.1	2.8	2.9	10.5603	31.0	68.0	1,840	81.0	1,792	95.9	96.2	96.2	0.71	0.80	0.84	551.0
VI poles																				
64	0.18	0.25	71M	0.15	3.9	2.6	2.8	0.0008	45.0	99.0	8.0	59.0	1,140	56	63.8	67.5	0.37	0.48	0.57	0.59
65	0.25	0.33	80M	0.21	4.7	2.9	3.4	0.0016	50.0	110.0	10.0	59.0	1,155	61.2	68.5	71.4	0.36	0.47	0.56	0.78
66	0.37	0.50	80M	0.31	4.8	2.4	2.9	0.0021	48.0	106.0	12.0	59.0	1,150	69.4	74.6	75.3	0.41	0.53	0.63	0.98
67	0.55	0.75	90S	0.46	5.5	2.7	3.0	0.0033	62.0	136.0	16.0	59.0	1,160	76.8	80.6	81.7	0.41	0.53	0.63	1.34
68	0.75	1.00	90S	0.64	5.2	2.6	2.7	0.0033	36.0	79.0	17.0	59.0	1,150	77.0	80.3	82.5	0.43	0.56	0.65	1.76
69	1.10	1.50	100L	0.92	8.4	3.9	3.9	0.0081	40.0	88.0	30.0	67.0	1,165	81.9	84.7	87.5	0.52	0.66	0.74	2.13
70	1.50	2.00	112M	1.25	7.1	3.0	3.7	0.0195	36.0	79.0	37.0	67.0	1,170	83.6	86.2	88.5	0.41	0.55	0.64	3.32
71	2.20	3.00	132S/M	1.81	11.2	3.1	3.9	0.0605	48.0	106.0	74.0	67.0	1,182	85.6	88.0	89.5	0.62	0.73	0.80	3.86
72	3.00	4.00	132S/M	2.48	11.0	3.2	3.8	0.0656	48.0	106.0	78.0	67.0	1,180	86.6	88.5	89.5	0.63	0.74	0.80	5.26
73	4.00	5.50	132S/M	3.30	11.8	3.9	4.3	0.0656	20.0	44.0	78.0	67.0	1,181	86.4	88.5	89.5	0.59	0.71	0.78	7.19

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

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current Il/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							
													Rated speed (rpm)	% of full load						Full load current In (A)
														Efficiency			Power factor			
	kW	HP							Hot	Cold				50	75	100	50	75	100	
II poles																				
74	75.0	100.0	W280S/M	20.45	9.2	3.6	3.8	0.4568	35.0	77.0	520.0	79.0	3,572	93.4	94.6	95.0	0.73	0.82	0.86	115.0
75	90.0	125.0	W280S/M	24.54	9.5	3.7	3.9	0.5414	30.0	66.0	565.0	79.0	3,572	93.9	94.9	95.4	0.75	0.83	0.86	138.0
76	110.0	150.0	W315S/M	29.92	8.3	2.7	3.5	1.2443	28.0	62.0	815.0	81.0	3,581	94.2	95.4	95.4	0.76	0.84	0.87	166.0
77	132.0	175.0	W315S/M	35.91	8.4	2.6	3.3	1.4664	31.0	68.0	875.0	81.0	3,580	94.8	95.8	95.8	0.79	0.86	0.88	197.0
78	160.0	220.0	315S/M	43.48	8.4	2.5	3.2	2.2447	41.0	90.0	1,015	81.0	3,584	95.5	95.8	95.8	0.78	0.85	0.88	238.0
79	200.0	270.0	315S/M	54.31	9.5	2.9	3.9	2.7685	27.0	59.0	1,115	81.0	3,587	95.5	96.2	96.2	0.74	0.83	0.87	300.0
80	250.0	340.0	315L	67.87	9.9	3.3	3.8	3.5916	20.0	44.0	1,330	82.0	3,588	94.7	95.9	96.2	0.76	0.84	0.87	375.0
81	315.0	430.0	355M/L	85.56	8.8	3.0	3.1	5.2547	36.0	79.0	1,700	87.0	3,586	95.5	96.2	96.2	0.83	0.88	0.89	462.0
82	355.0	480.0	355M/L	96.34	9.9	3.2	3.6	6.0053	28.0	62.0	1,825	87.0	3,589	95.5	96.2	96.2	0.79	0.86	0.88	526.0
IV poles																				
83	75.0	100.0	W280S/M	40.88	9.1	3.8	3.9	1.0757	34.0	75.0	560.0	68.0	1,787	94.9	95.8	96.2	0.63	0.75	0.81	121.0
84	90.0	125.0	W280S/M	49.05	9.1	4.2	4.0	1.2102	20.0	44.0	595.0	68.0	1,787	95.0	95.8	96.2	0.62	0.74	0.80	147.0
85	110.0	150.0	W315S/M	59.89	8.3	3.2	3.4	2.5962	24.0	53.0	890.0	75.0	1,789	95.3	96.1	96.2	0.61	0.73	0.80	179.0
86	132.0	175.0	W315S/M	71.87	8.4	3.3	3.4	2.8253	22.0	48.0	925.0	75.0	1,789	95.5	96.1	96.5	0.61	0.73	0.80	215.0
87	160.0	220.0	315S/M	86.96	8.9	3.5	3.5	4.2191	36.0	79.0	1,115	75.0	1,792	95.6	96.4	96.5	0.70	0.8	0.84	248.0
88	200.0	270.0	315S/M	108.71	8.9	3.5	3.3	5.3294	34.0	75.0	1,255	75.0	1,792	96.1	96.5	96.5	0.73	0.82	0.86	302.0
89	250.0	340.0	315L	135.96	8.3	3.2	2.9	5.6364	30.0	66.0	1,365	77.0	1,791	95.8	96.4	96.8	0.73	0.82	0.86	377.0
90	315.0	430.0	315L	171.21	8.8	3.6	3.3	6.8521	21.0	46.0	1,505	77.0	1,792	95.7	96.4	96.8	0.70	0.80	0.85	481.0
91	355.0	480.0	355M/L	192.84	8.3	3.4	3.2	11.0972	23.0	51.0	1,930	81.0	1,793	95.9	96.6	96.8	0.69	0.79	0.83	555.0

Electrical tables

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

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current Il/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							
													Rated speed (rpm)	% of full load						Full load current In (A)
														Efficiency			Power factor			
	kW	HP							Hot	Cold				50	75	100	50	75	100	
II poles																				
1	0.16	0.22	63M	0.05	7.0	5.9	6.1	0.0002	21.0	46.0	6.3	56.0	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	20.0	44.0	6.3	56.0	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	16.0	35.0	6.3	56.0	3,285	64.0	64.0	70.0	0.64	0.77	0.84	0.76
4	0.50	0.68	71M	0.14	6.0	2.6	2.8	0.0004	16.0	35.0	8.1	61.0	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	16.0	35.0	9.0	61.0	3,380	72.0	72.0	74.0	0.72	0.83	0.88	1.49
6	1.00	1.36	80M	0.28	6.4	2.0	2.7	0.0009	8.0	18.0	12.2	65.0	3,450	74.0	74.0	78.5	0.71	0.82	0.88	1.90
7	1.50	2.00	80M	0.42	6.6	2.5	2.8	0.0011	8.0	18.0	13.9	65.0	3,440	78.5	78.5	81.0	0.74	0.84	0.89	2.73
8	2.00	2.70	90S	0.56	7.9	2.8	2.9	0.0010	12.0	26.0	17.4	65.0	3,445	84.9	81.5	81.5	0.77	0.85	0.88	3.66
9	3.00	4.00	90L	0.84	8.2	3.6	3.1	0.0024	8.0	18.0	21.4	65.0	3,470	81.5	81.5	84.5	0.81	0.87	0.90	5.18
10	4.10	5.60	100L	1.14	8.2	2.3	3.2	0.0050	8.0	18.0	30.3	78.0	3,500	84.5	84.5	84.5	0.83	0.89	0.92	6.92
11	5.40	7.30	112M	1.50	8.2	2.3	3.0	0.0063	8.0	18.0	35.8	78.0	3,505	84.5	84.5	86.0	0.86	0.90	0.92	8.96
12	7.40	9.90	132S/M	2.04	8.3	2.6	3.0	0.0163	16.0	35.0	56.0	78.0	3,525	86.0	86.0	87.5	0.86	0.90	0.92	12.1
13	10.1	13.7	132S/M	2.80	8.1	2.7	2.9	0.0218	22.0	48.0	68.0	78.0	3,510	87.5	87.5	87.5	0.88	0.91	0.92	16.5
14	11.0	15.0	132S/M	3.04	9.9	3.5	3.5	0.0277	22.0	48.0	82.3	78.0	3,530	90.2	90.2	90.2	0.88	0.91	0.92	17.4
15	14.0	19.0	160M	3.86	6.8	2.3	2.8	0.0404	8.0	18.0	110.0	72.0	3,530	87.5	87.5	88.5	0.76	0.84	0.88	23.6
16	19.5	26.5	160M	5.39	7.2	2.5	2.9	0.0514	6.0	13.0	120.0	72.0	3,525	88.5	88.5	89.5	0.78	0.86	0.89	32.1
17	24.0	32.6	160L	6.62	8.1	2.7	3.2	0.0625	7.0	15.0	135.0	72.0	3,530	89.5	89.5	89.5	0.77	0.85	0.88	40.0
18	27.0	37.0	180M	7.42	7.5	2.1	2.9	0.0919	6.0	13.0	165.0	72.0	3,545	89.5	89.5	90.2	0.78	0.85	0.88	44.6
19	37.5	51.0	200M/L	10.29	6.4	2.8	2.6	0.1611	12.0	26.0	230.0	77.0	3,550	90.2	90.2	91.5	0.78	0.85	0.87	61.8
20	46.0	63.0	200M/L	12.62	6.5	2.8	2.5	0.1865	8.0	18.0	250.0	77.0	3,550	91.5	91.5	91.7	0.78	0.85	0.87	75.7
21	56.0	76.0	225S/M	15.34	7.3	2.1	2.7	0.2601	8.0	18.0	340.0	79.0	3,555	91.7	91.7	92.4	0.78	0.85	0.88	90.4
22	68.0	92.3	250S/M	18.63	7.2	2.4	2.7	0.3384	12.0	26.0	415.0	79.0	3,555	92.4	92.4	93.0	0.79	0.86	0.88	109.0
23	90.0	125.0	W280S/M	24.69	6.9	2.5	2.5	0.5075	13.0	29.0	520.0	79.0	3,550	93.0	93.0	93.0	0.83	0.88	0.90	141.0
24	108.0	147.0	W280S/M	29.63	7.3	2.5	2.6	0.4568	19.0	42.0	520.0	79.0	3,550	93.0	93.0	93.0	0.82	0.87	0.89	171.0
25	129.0	176.0	W315S/M	35.23	5.8	1.7	2.3	0.9776	26.0	57.0	745.0	81.0	3,566	94.4	95.0	94.8	0.81	0.86	0.88	203.0
26	152.0	206.0	W315S/M	41.47	8.4	1.9	2.5	1.1998	22.0	48.0	800.0	81.0	3,570	94.9	95.4	95.2	0.83	0.88	0.89	235.0
27	186.0	252.0	W315S/M	50.75	6.5	1.9	2.3	1.7331	23.0	51.0	945.0	81.0	3,570	94.1	94.1	94.1	0.86	0.89	0.90	288.0
28	215.0	292.0	315S/M	58.51	7.1	2.2	2.6	2.6937	27.0	59.0	1,100	81.0	3,579	94.1	94.1	94.1	0.85	0.89	0.90	333.0
29	230.0	315.0	315S/M	62.58	7.7	2.2	2.7	2.6937	25.0	55.0	1,100	81.0	3,580	95.7	95.8	95.8	0.83	0.88	0.90	350.0
30	288.0	391.0	315L	78.33	6.9	2.5	2.5	3.4245	22.0	48.0	1,300	82.0	3,581	95.6	96.2	96.2	0.84	0.89	0.90	436.0
31	362.0	492.0	355M/L	98.46	7.5	2.4	2.4	5.1474	30.0	66.0	1,680	87.0	3,581	94.1	94.1	94.1	0.86	0.90	0.91	559.0
32	415.0	564.0	355M/L	112.78	8.5	2.6	2.7	6.0053	25.0	55.0	1,820	87.0	3,584	94.1	94.1	94.1	0.85	0.89	0.90	643.0
IV poles																				
33	0.16	0.22	63M	0.09	3.6	2.1	2.3	0.0002	36.0	79.0	6.1	55.0	1,665	62.0	62.0	66.0	0.44	0.57	0.67	0.47
34	0.24	0.32	63M	0.14	3.7	2.6	2.3	0.0002	28.0	62.0	6.2	55.0	1,635	66.0	66.0	68.0	0.44	0.58	0.68	0.68
35	0.34	0.46	71M	0.20	4.7	2.0	2.3	0.0007	24.0	53.0	8.2	59.0	1,695	68.0	68.0	70.0	0.54	0.68	0.77	0.83
36	0.50	0.68	71M	0.29	4.4	2.0	2.0	0.0007	24.0	53.0	9.0	59.0	1,665	70.0	70.0	74.0	0.59	0.73	0.80	1.11
37	0.74	0.99	80M	0.42	5.8	2.4	2.6	0.0021	20.0	44.0	11.9	59.0	1,715	74.0	74.0	77.0	0.62	0.75	0.82	1.54
38	1.00	1.36	80M	0.57	5.8	2.5	2.5	0.0026	20.0	44.0	13.5	59.0	1,705	77.0	77.0	79.0	0.66	0.78	0.84	1.98
39	1.50	2.00	90S	0.85	5.6	2.6	2.8	0.0030	23.0	51.0	16.8	59.0	1,710	79.0	79.0	81.5	0.64	0.76	0.83	2.91
40	2.00	2.70	90L	1.14	6.6	3.1	3.1	0.0045	12.0	26.0	20.9	59.0	1,715	81.5	81.5	83.0	0.65	0.77	0.83	3.81
41	3.00	4.00	100L	1.69	7.2	2.8	3.1	0.0081	16.0	35.0	30.5	67.0	1,730	83.0	83.0	85.0	0.67	0.79	0.84	5.51
42	4.10	5.60	100L	2.33	6.6	2.7	2.8	0.0081	14.0	31.0	30.4	67.0	1,715	85.0	85.0	85.0	0.67	0.79	0.84	7.53
43	5.40	7.30	112M	3.03	7.1	3	3.2	0.0127	12.0	26.0	38.5	67.0	1,735	85.0	85.0	87.0	0.66	0.77	0.83	9.81
44	7.40	9.90	132S/M	4.12	7.0	2.9	2.7	0.0370	24.0	53.0	69.0	67.0	1,750	87.0	87.0	87.5	0.75	0.83	0.86	12.9
45	10.1	13.7	132S/M	5.64	7.5	3	2.9	0.0423	12.0	26.0	75.0	67.0	1,745	87.5	87.5	88.5	0.73	0.82	0.85	17.6
46	14.0	19.0	160M	7.73	6.6	2.2	2.7	0.1048	8.0	18.0	115.0	63.0	1,765	88.5	88.5	89.5	0.70	0.80	0.84	24.4
47	19.5	26.5	160L	10.76	6.6	2.5	2.6	0.1467	8.0	18.0	145.0	63.0	1,765	89.5	89.5	90.5	0.73	0.82	0.86	32.9
48	24.0	32.6	180M	13.28	6.4	2.5	2.5	0.1740	8.0	18.0	175.0	65.0	1,760	90.5	90.5	91.0	0.74	0.82	0.86	40.2
49	27.0	37.0	180L	14.86	7.6	3.1	3.1	0.2088	8.0	18.0	206.4	65.0	1,770	91.0	91.0	91.7	0.69	0.79	0.84	46.0
50	37.5	51.0	200M/L	20.64	6.8	2.2	2.6	0.3074	8.0	18.0	256.03	65.0	1,770	91.7	91.7	92.4	0.73	0.82	0.85	62.7
51	46.0	63.0	W225S/M	25.31	7.0	2.3	2.7	0.3743	8.0	18.0	280.0	65.0	1,770	92.4	92.4	93.0	0.74	0.82	0.85	76.4
52	56.0	76.0	225S/M	30.69	7.0	2.3	2.5	0.5406	18.0	40.0	362.46	67.0	1,777	93	93.0	93.0	0.73	0.81	0.85	93.0
53	68.0	92.3	250S/M	37.21	7.3	2.3	2.6	0.7756	8.0	18.0	445.42	68.0	1,780	93.0	93.0	93.2	0.72	0.81	0.85	113.0

Electrical tables

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

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current Il/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							
													Rated speed (rpm)	% of full load						Full load current In (A)
														Efficiency			Power factor			
	kW	HP							Hot	Cold				50	75	100	50	75	100	
IV poles																				
54	90.0	125.0	W280S/M	49.33	8.5	2.5	2.5	1.0791	14.0	31.0	548.1	68.0	1,777	93.1	93.2	93.2	0.77	0.84	0.87	146.0
55	108.0	147.0	W280S/M	59.13	7.5	2.8	2.7	1.0116	16.0	35.0	550.0	68.0	1,779	93.2	93.2	93.5	0.73	0.82	0.85	178.0
56	132.0	175.0	W315S/M	72.23	5.9	1.8	2.1	1.9090	12.0	26.0	780.0	75.0	1,780	93.5	93.5	94.5	0.71	0.80	0.83	221.0
57	158.0	215.0	W315S/M	86.41	6.1	2	2.2	2.4435	18.0	40.0	829.25	75.0	1,781	94.5	94.5	94.5	0.74	0.81	0.84	261.0
58	192.0	261.0	W315S/M	105.00	6.2	2.1	2.2	3.2835	18.0	40.0	990.0	75.0	1,781	94.5	94.5	94.5	0.75	0.83	0.85	314.0
59	220.0	300.0	315S/M	119.91	6.8	2.4	2.3	3.997	26.0	57.0	1,080	75.0	1,787	94.5	94.5	94.5	0.79	0.85	0.87	351.0
60	240.0	326.0	315S/M	130.74	7.0	2.5	2.4	4.3301	24.0	53.0	1,125	75.0	1,788	94.5	94.5	94.5	0.78	0.85	0.87	383.0
61	288.0	391.0	315L	156.80	6.8	2.6	2.5	5.3048	22.0	48.0	1,310	77.0	1,789	96.1	96.2	96.2	0.75	0.83	0.86	457.0
62	345.0	470.0	315L	187.83	7.8	3.1	2.8	6.8521	20.0	44.0	1,622.59	77.0	1,789	94.4	94.5	94.5	0.76	0.84	0.87	551.0
63	415.0	564.0	355M/L	225.94	6.2	2.1	2.2	10.5603	27.0	59.0	1,840	81.0	1,789	94.5	94.5	94.5	0.78	0.84	0.86	670.0
VI poles																				
64	0.24	0.32	71M	0.21	3.4	1.7	1.7	0.0008	28.0	62.0	8.0	59.0	1,105	52.5	52.5	57.5	0.48	0.61	0.72	0.76
65	0.34	0.46	80M	0.29	4.1	1.7	2.2	0.0016	32.0	70.0	10.0	59.0	1,135	57.5	57.5	62.0	0.47	0.60	0.70	1.03
66	0.5	0.68	80M	0.43	3.8	1.7	1.8	0.0021	33.0	73.0	12.0	59.0	1,120	62.0	62.0	66.0	0.53	0.67	0.76	1.31
67	0.74	0.99	90S	0.64	4.2	1.7	1.8	0.0033	42.0	92.0	16.0	59.0	1,135	66.0	66.0	72.0	0.53	0.67	0.74	1.82
68	1.00	1.36	90S	0.87	3.8	1.7	1.8	0.0033	32.0	70.0	17.0	59.0	1,115	72.0	72.0	75.0	0.56	0.69	0.76	2.30
69	1.50	2.00	100L	1.28	6.0	2.5	2.5	0.0081	36.0	79.0	30.0	67.0	1,140	75.0	75.0	77.0	0.66	0.77	0.83	3.08
70	2.00	2.70	112M	1.69	5.4	2.2	2.5	0.0195	40.0	88.0	37.0	67.0	1,155	77.0	77.0	78.5	0.54	0.68	0.75	4.46
71	3.00	4.00	132S/M	2.50	7.6	2.1	2.5	0.0605	48.0	106.0	74.0	67.0	1,170	78.5	78.5	83.5	0.73	0.81	0.85	5.55
72	4.10	5.60	132S/M	3.43	7.4	2.2	2.5	0.0656	43.0	95.0	78.0	67.0	1,165	83.5	83.5	83.5	0.74	0.82	0.85	7.58
73	5.40	7.30	132S/M	4.51	8.2	2.5	2.8	0.0656	20.0	44.0	78.0	67.0	1,165	83.5	83.5	85	0.71	0.80	0.84	9.92

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

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current Il/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							
													Rated speed (rpm)	% of full load						Full load current In (A)
														Efficiency			Power factor			
	kW	HP							Hot	Cold				50	75	100	50	75	100	
II poles																				
74	90.0	125.0	W280S/M	24.62	7.8	2.7	2.9	0.4568	30.0	66.0	520.0	79.0	3,560	92.9	93.0	93.0	0.81	0.87	0.89	143.0
75	108.0	147.0	W280S/M	29.55	8.1	2.9	2.9	0.5414	25.0	55.0	565.0	79.0	3,560	92.9	93.0	93.0	0.82	0.87	0.89	171.0
76	132.0	175.0	W315S/M	35.96	7.2	2.1	2.7	1.2443	24.0	53.0	815.0	81.0	3,575	93.0	93.0	94.1	0.82	0.88	0.89	207.0
77	158.0	215.0	W315S/M	43.11	7.0	2.0	2.5	1.4664	29.0	64.0	875.0	81.0	3,570	94.1	94.1	94.1	0.85	0.89	0.9	245.0
78	191.0	260.0	315S/M	52.01	6.5	1.8	2.5	2.2447	34.0	75.0	1,015	81.0	3,577	94.1	94.1	94.1	0.84	0.88	0.89	299.0
79	240.0	326.0	315S/M	65.28	7.9	2.2	2.9	2.7685	23.0	51.0	1,115	81.0	3,581	94.0	94.1	94.1	0.82	0.87	0.89	376.0
80	290.0	394.0	315L	78.83	9.2	2.8	3.2	3.5916	19.0	42.0	1,330	82.0	3,583	94.0	94.1	94.1	0.83	0.88	0.90	449.0
81	367.0	499.0	355M/L	99.82	7.4	2.4	2.4	5.2547	30.0	66.0	1,700	87.0	3,581	94.1	94.1	94.1	0.87	0.90	0.91	562.0
82	415.0	565.0	355M/L	112.78	8.3	2.6	2.4	6.0053	23.0	51.0	1,825	87.0	3,584	94.1	94.1	94.1	0.84	0.88	0.88	658.0
IV poles																				
83	90.0	125.0	W280S/M	49.22	8.0	2.8	2.8	1.0757	29.0	64.0	560.0	68.0	1,781	93.1	93.2	93.2	0.72	0.81	0.85	149.0
84	108.0	147.0	W280S/M	59.10	8.0	3.1	2.9	1.2102	20.0	44.0	595.0	68.0	1,780	93.1	93.2	93.5	0.71	0.80	0.84	180.0
85	132.0	175.0	W315S/M	72.03	7.2	2.4	2.6	2.5962	20.0	44.0	890.0	75.0	1,785	93.4	93.5	94.5	0.70	0.79	0.83	221.0
86	158.0	215.0	W315S/M	86.26	7.2	2.5	2.6	2.8253	20.0	44.0	925.0	75.0	1,784	94.5	94.5	94.5	0.70	0.79	0.83	264.0
87	191.0	260.0	315S/M	103.99	7.4	2.7	2.6	4.2191	35.0	77.0	1,115	75.0	1,789	94.5	94.5	94.5	0.78	0.85	0.87	305.0
88	240.0	326.0	315S/M	130.67	7.3	2.7	2.5	5.3294	32.0	70.0	1,255	75.0	1,789	94.4	94.5	94.5	0.80	0.86	0.88	379.0
89	288.0	391.0	315L	156.89	7.5	2.6	2.4	5.6364	25.0	55.0	1,365	77.0	1,788	96.0	96.2	96.2	0.78	0.85	0.87	452.0
90	345.0	470.0	315L	187.83	7.8	3.1	2.8	6.8521	20.0	44.0	1,505	77.0	1,789	95.3	95.4	95.4	0.76	0.84	0.87	545.0
91	415.0	565.0	355M/L	225.82	6.9	2.7	2.4	11.0972	23.0	51.0	1,930	81.0	1,790	94.5	94.5	94.5	0.77	0.84	0.86	670.0

Electrical tables

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

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current Il/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							
													Rated speed (rpm)	% of full load						Full load current In (A)
														Efficiency			Power factor			
	kW	HP							Hot	Cold				50	75	100	50	75	100	
II poles																				
1	0.16	0.22	63M	0.05	7.0	5.9	6.1	0.0002	21.0	46.0	6.3	56.0	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	20.0	44.0	6.3	56.0	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	16.0	35.0	6.3	56.0	3,285	64.0	64.0	70.0	0.64	0.77	0.84	0.76
4	0.50	0.68	71M	0.14	6.0	2.6	2.8	0.0004	16.0	35.0	8.1	61.0	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	16.0	35.0	9.0	61.0	3,380	72.0	72.0	74.0	0.72	0.83	0.88	1.49
6	1.00	1.36	80M	0.28	6.4	2.0	2.7	0.0009	8.0	18.0	12.2	65.0	3,450	74.0	74.0	78.5	0.71	0.82	0.88	1.90
7	1.50	2.00	80M	0.42	6.6	2.5	2.8	0.0011	8.0	18.0	13.9	65.0	3,440	78.5	78.5	81.0	0.74	0.84	0.89	2.73
8	2.00	2.70	90S	0.56	7.9	2.8	2.9	0.0010	12.0	26.0	17.4	65.0	3,445	84.9	81.5	81.5	0.77	0.85	0.88	3.66
9	3.00	4.00	90L	0.84	8.2	3.6	3.1	0.0024	8.0	18.0	21.4	65.0	3,470	81.5	81.5	84.5	0.81	0.87	0.90	5.18
10	4.10	5.60	100L	1.14	8.2	2.3	3.2	0.005	8.0	18.0	30.3	78.0	3,500	84.5	84.5	84.5	0.83	0.89	0.92	6.92
11	5.40	7.30	112M	1.50	8.2	2.3	3.0	0.0063	8.0	18.0	35.8	78.0	3,505	84.5	84.5	86.0	0.86	0.90	0.92	8.96
12	7.40	9.90	132S/M	2.04	8.3	2.6	3.0	0.0163	16.0	35.0	56	78.0	3,525	86.0	86.0	87.5	0.86	0.90	0.92	12.1
13	10.1	13.7	132S/M	2.80	8.1	2.7	2.9	0.0218	22.0	48.0	68	78.0	3,510	87.5	87.5	87.5	0.88	0.91	0.92	16.5
14	11.0	15.0	132S/M	3.04	9.9	3.5	3.5	0.0277	21.0	46.0	82.3	78.0	3,530	90.2	90.2	90.2	0.88	0.91	0.92	17.4
15	14.0	19.0	160M	3.86	6.8	2.3	2.8	0.0404	8.0	18.0	110	72.0	3,530	87.5	87.5	88.5	0.76	0.84	0.88	23.6
16	19.5	26.5	160M	5.39	7.2	2.5	2.9	0.0514	6.0	13.0	120	72.0	3,525	88.5	88.5	89.5	0.78	0.86	0.89	32.1
17	24.0	32.6	160L	6.62	8.1	2.7	3.2	0.0625	7.0	15.0	135	72.0	3,530	89.5	89.5	89.5	0.77	0.85	0.88	40.0
18	27.0	37.0	180M	7.42	7.5	2.1	2.9	0.0919	6.0	13.0	165	72.0	3,545	89.5	89.5	90.2	0.78	0.85	0.88	44.6
19	37.5	51.0	200M/L	10.29	6.4	2.8	2.6	0.1611	12.0	26.0	230.0	77.0	3,550	90.2	90.2	91.5	0.78	0.85	0.87	61.8
20	46.0	63.0	200M/L	12.62	6.5	2.8	2.5	0.1865	8.0	18.0	250.0	77.0	3,550	91.5	91.5	91.7	0.78	0.85	0.87	75.7
21	56.0	76.0	225S/M	15.34	7.3	2.1	2.7	0.2601	8.0	18.0	340.0	79.0	3,555	91.7	91.7	92.4	0.78	0.85	0.88	90.4
22	68.0	92.3	250S/M	18.63	7.2	2.4	2.7	0.3384	12.0	26.0	415.0	79.0	3,555	92.4	92.4	93.0	0.79	0.86	0.88	109.0
23	90.0	125.0	W280S/M	24.69	6.9	2.5	2.5	0.5075	13.0	29.0	520.0	79.0	3,550	93.0	93.0	93.0	0.83	0.88	0.90	141.0
24	108.0	147.0	W280S/M	29.63	7.3	2.5	2.6	0.4568	19.0	42.0	520.0	79.0	3,550	93.0	93.0	93.0	0.82	0.87	0.89	171.0
25	129.0	176.0	W315S/M	35.23	5.8	1.7	2.3	0.9776	26.0	57.0	745.0	81.0	3,566	94.4	95.0	94.8	0.81	0.86	0.88	203.0
26	152.0	206.0	W315S/M	41.47	8.4	1.9	2.5	1,1998	22.0	48.0	800.0	81.0	3,570	94.9	95.4	95.2	0.83	0.88	0.89	235.0
27	186.0	252.0	W315S/M	50.75	6.5	1.9	2.3	1,7331	23.0	51.0	945.0	81.0	3,570	94.1	94.1	94.1	0.86	0.89	0.90	288.0
28	215.0	292.0	315S/M	58.51	7.1	2.2	2.6	2,6937	27.0	59.0	1,100	81.0	3,579	94.1	94.1	94.1	0.85	0.89	0.90	333.0
29	230.0	315.0	315S/M	62.58	7.7	2.3	2.8	2,6937	25.0	55.0	1,100	81.0	3,580	95.7	95.8	95.8	0.83	0.88	0.9	350.0
30	288.0	391.0	315L	78.33	6.9	2.5	2.9	3,4245	21.0	46.0	1,300	82.0	3,581	95.6	96.2	96.2	0.84	0.89	0.90	436.0
31	362.0	492.0	355M/L	98.46	7.5	2.4	2.4	5,1474	30.0	66.0	1,680	87.0	3,581	94.1	94.1	94.1	0.86	0.90	0.91	559.0
32	415.0	564.0	355M/L	112.78	8.5	2.6	2.7	6,0053	25.0	55.0	1,820	87.0	3,584	94.1	94.1	94.1	0.85	0.89	0.90	643.0
IV poles																				
33	0.16	0.22	63M	0.09	3.6	2.1	2.3	0.0002	36.0	79.0	6.1	55.0	1,665	62.0	62.0	66.0	0.44	0.57	0.67	0.47
34	0.24	0.32	63M	0.14	3.7	2.6	2.3	0.0002	28.0	62.0	6.2	55.0	1,635	66.0	66.0	68.0	0.44	0.58	0.68	0.68
35	0.34	0.46	71M	0.20	4.7	2.0	2.3	0.0007	24.0	53.0	8.2	59.0	1,695	68.0	68.0	70.0	0.54	0.68	0.77	0.83
36	0.50	0.68	71M	0.29	4.4	2.0	2.0	0.0007	24.0	53.0	9.0	59.0	1,665	70.0	70.0	74.0	0.59	0.73	0.80	1.11
37	0.74	0.99	80M	0.42	5.8	2.4	2.6	0.0021	20.0	44.0	11.9	59.0	1,715	74.0	74.0	77.0	0.62	0.75	0.82	1.54
38	1.00	1.36	80M	0.57	5.8	2.5	2.5	0.0026	20.0	44.0	13.5	59.0	1,705	77.0	77.0	79.0	0.66	0.78	0.84	1.98
39	1.50	2.00	90S	0.85	5.6	2.6	2.8	0.0030	23.0	51.0	16.8	59.0	1,710	79.0	79.0	81.5	0.64	0.76	0.83	2.91
40	2.00	2.70	90L	1.14	6.6	3.1	3.1	0.0045	12.0	26.0	20.9	59.0	1,715	81.5	81.5	83.0	0.65	0.77	0.83	3.81
41	3.00	4.00	100L	1.69	7.2	2.8	3.1	0.0081	16.0	35.0	30.5	67.0	1,730	83.0	83.0	85.0	0.67	0.79	0.84	5.51
42	4.10	5.60	100L	2.33	6.6	2.7	2.8	0.0081	14.0	31.0	30.4	67.0	1,715	85.0	85.0	85.0	0.67	0.79	0.84	7.53
43	5.40	7.30	112M	3.03	7.1	3	3.2	0.0127	12.0	26.0	38.5	67.0	1,735	85.0	85.0	87.0	0.66	0.77	0.83	9.81
44	7.40	9.90	132S/M	4.12	7.0	2.9	2.7	0.0370	24.0	53.0	69.0	67.0	1,750	87.0	87.0	87.5	0.75	0.83	0.86	12.9
45	10.1	13.7	132S/M	5.64	7.5	3	2.9	0.0423	12.0	26.0	75.0	67.0	1,745	87.5	87.5	88.5	0.73	0.82	0.85	17.6
46	14.0	19.0	160M	7.73	6.6	2.2	2.7	0.1048	8.0	18.0	115.0	63.0	1,765	88.5	88.5	89.5	0.7	0.8	0.84	24.4
47	19.5	26.5	160L	10.76	6.6	2.5	2.6	0.1467	8.0	18.0	145.0	63.0	1,765	89.5	89.5	90.5	0.73	0.82	0.86	32.9
48	24.0	32.6	180M	13.28	6.4	2.5	2.5	0.1740	8.0	18.0	175.0	65.0	1,760	90.5	90.5	91.0	0.74	0.82	0.86	40.2
49	27	37.0	180L	14.86	7.6	3.1	3.1	0.2088	8.0	18.0	206.4	65.0	1,770	91.0	91.0	91.7	0.69	0.79	0.84	46.0
50	37.5	51.0	200M/L	20.64	6.8	2.2	2.6	0.3074	8.0	18.0	256.03	65.0	1,770	91.7	91.7	92.4	0.73	0.82	0.85	62.7
51	46.0	63.0	W225S/M	25.31	7.0	2.3	2.7	0.3743	8.0	18.0	280.0	65.0	1,770	92.4	92.4	93.0	0.74	0.82	0.85	76.4
52	56.0	76.0	225S/M	30.69	7.0	2.3	2.5	0.5406	18.0	40.0	362.46	67.0	1,777	93.0	93.0	93.0	0.73	0.81	0.85	93.0
53	68.0	92.3	250S/M	37.21	7.3	2.3	2.6	0.7756	8.0	18.0	445.42	68.0	1,780	93.0	93.0	93.2	0.72	0.81	0.85	113.0

Electrical tables

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

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current Il/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							
													Rated speed (rpm)	% of full load						Full load current In (A)
														Efficiency			Power factor			
	kW	HP							Hot	Cold				50	75	100	50	75	100	
IV poles																				
54	90.0	125.0	W280S/M	49.33	8.5	2.5	2.5	1.0791	14.0	31.0	548.1	68.0	1,777	93.1	93.2	93.2	0.77	0.84	0.87	146.0
55	108.0	147.0	W280S/M	59.13	7.5	2.8	2.7	1.0116	16.0	35.0	550.0	68.0	1,779	93.2	93.2	93.5	0.73	0.82	0.85	178.0
56	132.0	175.0	W315S/M	72.23	5.9	1.8	2.1	1.9090	12.0	26.0	780.0	75.0	1,780	93.5	93.5	94.5	0.71	0.80	0.83	221.0
57	158.0	215.0	W315S/M	86.41	6.1	2.0	2.2	2.4435	18.0	40.0	829.25	75.0	1,781	94.5	94.5	94.5	0.74	0.81	0.84	261.0
58	192.0	261.0	W315S/M	105.00	6.2	2.1	2.2	3.2835	18.0	40.0	990.0	75.0	1,781	94.5	94.5	94.5	0.75	0.83	0.85	314.0
59	220.0	300.0	315S/M	119.91	6.8	2.4	2.3	3.9970	26.0	57.0	1,080	75.0	1,787	94.5	94.5	94.5	0.79	0.85	0.87	351.0
60	240.0	326.0	315S/M	130.74	7.0	2.5	2.4	4.3301	24.0	53.0	1,125	75.0	1,788	94.5	94.5	94.5	0.78	0.85	0.87	383.0
61	288.0	391.0	315L	156.80	6.8	2.7	2.6	5.3048	22.0	48.0	1,310	77.0	1,789	96.1	96.2	96.2	0.75	0.83	0.86	457.0
62	345.0	470.0	315L	187.83	7.8	3.1	2.8	6.8521	20.0	44.0	1,622.59	77.0	1,789	94.4	94.5	94.5	0.76	0.84	0.87	551.0
63	415.0	564.0	355M/L	225.94	6.2	2.1	2.2	10.5603	27.0	59.0	1,840	81.0	1,789	94.5	94.5	94.5	0.78	0.84	0.86	670.0
VI poles																				
64	0.24	0.32	71M	0.21	3.4	1.7	1.7	0.0008	28.0	62.0	8.0	59.0	1,105	52.5	52.5	57.5	0.48	0.61	0.72	0.76
65	0.34	0.46	80M	0.29	4.1	1.7	2.2	0.0016	32.0	70.0	10.0	59.0	1,135	57.5	57.5	62.0	0.47	0.60	0.70	1.03
66	0.50	0.68	80M	0.43	3.8	1.7	1.8	0.0021	33.0	73.0	12.0	59.0	1,120	62.0	62.0	66.0	0.53	0.67	0.76	1.31
67	0.74	0.99	90S	0.64	4.2	1.7	1.8	0.0033	42.0	92.0	16.0	59.0	1,135	66.0	66.0	72.0	0.53	0.67	0.74	1.82
68	1.00	1.36	90S	0.87	3.8	1.7	1.8	0.0033	32.0	70.0	17.0	59.0	1,115	72.0	72.0	75.0	0.56	0.69	0.76	2.30
69	1.50	2.00	100L	1.28	6.0	2.5	2.5	0.0081	36.0	79.0	30.0	67.0	1,140	75.0	75.0	77.0	0.66	0.77	0.83	3.08
70	2.00	2.70	112M	1.69	5.4	2.2	2.5	0.0195	40.0	88.0	37.0	67.0	1,155	77.0	77.0	78.5	0.54	0.68	0.75	4.46
71	3.00	4.00	132S/M	2.50	7.6	2.1	2.5	0.0605	48.0	106.0	74.0	67.0	1,170	78.5	78.5	83.5	0.73	0.81	0.85	5.55
72	4.10	5.60	132S/M	3.43	7.4	2.2	2.5	0.0656	43.0	95.0	78.0	67.0	1,165	83.5	83.5	83.5	0.74	0.82	0.85	7.58
73	5.40	7.30	132S/M	4.51	8.2	2.5	2.8	0.0656	20.0	44.0	78.0	67.0	1,165	83.5	83.5	85.0	0.71	0.80	0.84	9.92

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

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current Il/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							
													Rated speed (rpm)	% of full load						Full load current In (A)
														Efficiency			Power factor			
	kW	HP							Hot	Cold				50	75	100	50	75	100	
II poles																				
74	90.0	125.0	W280S/M	24.62	7.8	2.7	2.9	0.4568	30.0	66.0	520.0	79.0	3,560	92.9	93.0	93.0	0.81	0.87	0.89	143.0
75	108.0	147.0	W280S/M	29.55	8.1	2.9	2.9	0.5414	25.0	55.0	565.0	79.0	3,560	92.9	93.0	93.0	0.82	0.87	0.89	171.0
76	132.0	175.0	W315S/M	35.96	7.2	2.1	2.7	1.2443	24.0	53.0	815.0	81.0	3,575	93.0	93.0	94.1	0.82	0.88	0.89	207.0
77	158.0	215.0	W315S/M	43.11	7.0	2.0	2.5	1.4664	29.0	64.0	875.0	81.0	3,570	94.1	94.1	94.1	0.85	0.89	0.90	245.0
78	191.0	260.0	315S/M	52.01	6.5	1.8	2.5	2.2447	34.0	75.0	1,015	81.0	3,577	94.1	94.1	94.1	0.84	0.88	0.89	299.0
79	240.0	326.0	315S/M	65.28	7.9	2.2	2.9	2.7685	23.0	51.0	1,115	81.0	3,581	94.0	94.1	94.1	0.82	0.87	0.89	376.0
80	290.0	394.0	315L	78.83	9.2	2.8	3.2	3.5916	19.0	42.0	1,330	82.0	3,583	94.0	94.1	94.1	0.83	0.88	0.90	449.0
81	367.0	499.0	355M/L	99.82	7.4	2.4	2.4	5.2547	30.0	66.0	1,700	87.0	3,581	94.1	94.1	94.1	0.87	0.90	0.91	562.0
82	415.0	565.0	355M/L	112.78	8.3	2.6	2.4	6.0053	23.0	51.0	1,825	87.0	3,584	94.1	94.1	94.1	0.84	0.88	0.88	658.0
IV poles																				
83	90.0	125.0	W280S/M	49.22	8.0	2.8	2.8	1.0757	29.0	64.0	560.0	68.0	1,781	93.1	93.2	93.2	0.72	0.81	0.85	149.0
84	108.0	147.0	W280S/M	59.10	8.0	3.1	2.9	1.2102	20.0	44.0	595.0	68.0	1,780	93.1	93.2	93.5	0.71	0.80	0.84	180.0
85	132.0	175.0	W315S/M	72.03	7.2	2.4	2.6	2.5962	20.0	44.0	890.0	75.0	1,785	93.4	93.5	94.5	0.70	0.79	0.83	221.0
86	158.0	215.0	W315S/M	86.26	7.2	2.5	2.6	2.8253	20.0	44.0	925.0	75.0	1,784	94.5	94.5	94.5	0.70	0.79	0.83	264.0
87	191.0	260.0	315S/M	103.99	7.4	2.7	2.6	4.2191	35.0	77.0	1,115	75.0	1,789	94.5	94.5	94.5	0.78	0.85	0.87	305.0
88	240.0	326.0	315S/M	130.67	7.3	2.7	2.5	5.3294	32.0	70.0	1,255	75.0	1,789	94.4	94.5	94.5	0.80	0.86	0.88	379.0
89	288.0	391.0	315L	156.89	6.9	2.6	2.5	5.6364	25.0	55.0	1,365	77.0	1,788	96.0	96.2	96.2	0.78	0.85	0.87	452.0
90	345.0	470.0	315L	187.83	7.7	3.1	2.8	6.8521	20.0	44.0	1,505	77.0	1,789	95.3	95.4	95.4	0.76	0.84	0.87	545.0
91	415.0	565.0	355M/L	225.82	6.9	2.7	2.4	11.0972	23.0	51.0	1,930	81.0	1,790	94.5	94.5	94.5	0.77	0.84	0.86	670.0

Electrical tables

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

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current Il/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							
													Rated speed (rpm)	% of full load						Full load current In (A)
														Efficiency			Power factor			
	kW	HP							Hot	Cold				50	75	100	50	75	100	
II poles																				
1	0.17	0.23	63M	0.05	6.8	5.8	5.7	0.0002	21.0	46.0	6.3	56.0	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	20.0	44.0	6.3	56.0	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	16.0	35.0	6.3	56.0	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	16.0	35.0	8.1	61.0	3,405	70.0	70.0	72.0	0.69	0.81	0.87	1.11
5	0.80	1.08	71M	0.23	5.6	2.6	2.5	0.0004	16.0	35.0	9.0	61.0	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	8.0	18.0	12.2	65.0	3,440	74.0	74.0	78.5	0.72	0.83	0.88	1.99
7	1.54	2.10	80M	0.44	6.4	2.2	2.8	0.0011	8.0	18.0	13.9	65.0	3,435	78.5	78.5	81.0	0.74	0.84	0.89	2.80
8	2.10	2.85	90S	0.59	7.9	2.8	2.9	0.0010	12.0	26.0	17.4	65.0	3,435	84.9	81.5	81.5	0.77	0.85	0.88	3.84
9	3.10	4.20	90L	0.87	7.9	3.5	3.0	0.0024	8.0	18.0	21.4	65.0	3,460	81.5	81.5	84.5	0.82	0.88	0.90	5.35
10	4.20	5.70	100L	1.17	8.0	2.5	3.1	0.0050	8.0	18.0	30.3	78.0	3,495	84.5	84.5	84.5	0.84	0.90	0.92	7.09
11	5.60	7.60	112M	1.56	8.0	2.4	3.0	0.0063	8.0	18.0	35.8	78.0	3,505	84.5	84.5	86.0	0.86	0.91	0.93	9.19
12	7.70	10.5	132S/M	2.13	8.0	2.5	2.9	0.0163	16.0	35.0	56.0	78.0	3,515	86.0	86.0	87.5	0.86	0.90	0.92	12.6
13	10.5	14.3	132S/M	2.91	7.7	2.6	2.7	0.0218	21.0	46.0	68.0	78.0	3,515	87.5	87.5	87.5	0.88	0.91	0.92	17.1
14	12.5	17.0	132S/M	3.46	8.8	3.3	3.2	0.0277	21.0	46.0	82.3	78.0	3,520	91.4	91.2	89.7	0.91	0.94	0.94	19.5
15	15.4	20.9	160M	4.27	6.1	1.9	2.5	0.0404	8.0	18.0	110.0	72.0	3,515	87.5	87.5	88.5	0.78	0.86	0.88	26.0
16	20.0	27.2	160M	5.53	7.0	2.2	2.7	0.0514	6.0	13.0	120.0	72.0	3,520	88.5	88.5	89.5	0.79	0.86	0.89	33.0
17	25.0	34.0	160L	6.91	7.9	2.9	3.0	0.0625	6.0	13.0	135.0	72.0	3,525	89.5	89.5	89.5	0.78	0.86	0.89	41.2
18	28.6	38.9	180M	7.87	7.1	1.9	2.7	0.0919	6.0	13.0	165.0	72.0	3,540	89.5	89.5	90.2	0.79	0.86	0.88	47.3
19	39.0	53.0	200M/L	10.72	6.2	2.7	2.5	0.1611	12.0	26.0	230.0	77.0	3,545	90.2	90.2	91.5	0.79	0.85	0.87	64.3
20	48.0	65.2	200M/L	13.21	6.3	2.5	2.5	0.1865	8.0	18.0	250.0	77.0	3,540	91.5	91.5	91.7	0.79	0.85	0.88	78.1
21	61.0	83.0	225S/M	16.74	6.6	2	2.5	0.2601	8.0	18.0	340.0	79.0	3,550	91.7	91.7	92.4	0.8	0.86	0.88	98.4
22	72.0	98.0	250S/M	19.75	6.8	2.3	2.5	0.3384	8.0	18.0	415.0	79.0	3,550	92.4	92.4	93.0	0.8	0.86	0.88	115.0
23	94.2	128.0	W280S/M	25.88	6.6	2.4	2.4	0.5075	11.0	24.0	520.0	79.0	3,545	93.0	93.0	93.0	0.84	0.89	0.9	147.0
24	113.0	154.0	W280S/M	31.05	6.9	2.4	2.5	0.4568	17.0	37.0	520.0	79.0	3,545	93.0	93.0	93.0	0.83	0.88	0.89	179.0
25	132.0	175.0	W315S/M	36.07	5.7	1.6	2.2	0.9776	25.0	55.0	745.0	81.0	3,564	94.4	95.0	94.7	0.81	0.86	0.88	208.0
26	158.0	215.0	W315S/M	43.13	8.4	1.9	2.4	1.1998	20.0	44.0	800.0	81.0	3,568	94.9	95.4	95.1	0.83	0.88	0.89	245.0
27	192.0	261.0	W315S/M	52.46	6.3	1.9	2.2	1.7331	21.0	46.0	945.0	81.0	3,565	94.1	94.1	94.1	0.87	0.90	0.90	297.0
28	222.0	302.0	315S/M	60.43	6.9	2.1	2.5	2.6937	25.0	55.0	1,100	81.0	3,578	94.1	94.1	94.1	0.85	0.89	0.90	344.0
29	240.0	326.0	315S/M	65.31	7.7	2.2	2.7	2.6937	23.0	51.0	1,100	81.0	3,579	95.7	95.8	95.8	0.84	0.89	0.90	365.0
30	300.0	400.0	315L	81.62	6.9	2.4	2.8	3.4245	19.0	42.0	1,300	82.0	3,580	95.6	96.2	96.2	0.85	0.89	0.90	455.0
31	378.0	513.0	355M/L	102.84	7.3	2.3	2.3	5.1474	27.0	59.0	1,680	87.0	3,580	94.1	94.1	94.1	0.87	0.90	0.91	579.0
32	425.0	578.0	355M/L	115.50	8.3	2.5	2.7	6.0053	24.0	53.0	1,820	87.0	3,584	94.1	94.1	94.1	0.85	0.89	0.90	658.0
IV poles																				
33	0.17	0.23	63M	0.10	3.5	2.0	2.0	0.0002	32.0	70.0	6.1	55.0	1,655	62.0	62.0	66.0	0.46	0.59	0.69	0.49
34	0.25	0.33	63M	0.15	3.7	2.3	2.1	0.0002	28.0	62.0	6.2	55.0	1,625	66.0	66.0	68.0	0.46	0.59	0.70	0.69
35	0.35	0.48	71M	0.20	4.5	2.0	2.1	0.0007	24.0	53.0	8.2	59.0	1,690	68.0	68.0	70.0	0.55	0.69	0.77	0.85
36	0.53	0.72	71M	0.31	4.3	2.0	2.0	0.0007	24.0	53.0	9.0	59.0	1,655	70.0	70.0	74.0	0.61	0.74	0.81	1.16
37	0.80	1.08	80M	0.46	5.5	2.1	2.4	0.0021	20.0	44.0	11.9	59.0	1,700	74.0	74.0	77.0	0.65	0.77	0.84	1.62
38	1.05	1.43	80M	0.60	5.5	2.2	2.4	0.0026	16.0	35.0	13.5	59.0	1,695	77.0	77.0	79.0	0.68	0.79	0.85	2.05
39	1.54	2.10	90S	0.88	5.5	2.6	2.7	0.0030	20.0	44.0	16.8	59.0	1,705	79.0	79.0	81.5	0.65	0.77	0.83	2.99
40	2.10	2.85	90L	1.19	6.4	2.9	2.8	0.0045	12.0	26.0	20.9	59.0	1,715	81.5	81.5	83.0	0.66	0.78	0.84	3.95
41	3.10	4.20	100L	1.75	6.9	2.7	3.0	0.0081	16.0	35.0	30.5	67.0	1,725	83.0	83.0	85.0	0.69	0.79	0.84	5.70
42	4.20	5.70	100L	2.39	6.4	2.9	2.8	0.0081	13.0	29.0	30.4	67.0	1,710	85.0	85.0	85.0	0.68	0.79	0.84	7.72
43	5.60	7.60	112M	3.15	6.9	3.1	3.0	0.0127	12.0	26.0	38.5	67.0	1,730	85.0	85.0	87.0	0.67	0.78	0.84	10.1
44	7.70	10.50	132S/M	4.31	6.7	2.6	2.6	0.0370	20.0	44.0	69.0	67.0	1,740	87.0	87.0	87.5	0.76	0.83	0.86	13.4
45	10.5	14.3	132S/M	5.88	7.3	2.9	2.8	0.0423	12.0	26.0	75.0	67.0	1,740	87.5	87.5	88.5	0.74	0.82	0.86	18.1
46	15.4	20.9	160M	8.52	6.0	2.0	2.4	0.1048	6.0	13.0	115.0	63.0	1,760	88.5	88.5	89.5	0.73	0.82	0.85	26.6
47	20.0	27.2	160L	11.04	6.4	2.2	2.4	0.1467	6.0	13.0	145.0	63.0	1,765	89.5	89.5	90.5	0.74	0.83	0.86	33.7
48	25.0	34.0	180M	13.87	6.2	2.4	2.4	0.1740	8.0	18.0	175.0	65.0	1,755	90.5	90.5	91.0	0.75	0.83	0.86	41.9
49	28.6	38.9	180L	15.78	7.2	3.0	3.0	0.2088	8.0	18.0	206.4	65.0	1,765	91.0	91.0	91.7	0.70	0.8	0.84	48.7
50	39.0	53.0	200M/L	21.46	6.5	2.1	2.5	0.3074	6.0	13.0	256.03	65.0	1,770	91.7	91.7	92.4	0.74	0.82	0.85	65.2
51	48.0	65.2	W225S/M	26.41	6.8	2.2	2.5	0.3743	8.0	18.0	280.0	65.0	1,770	92.4	92.4	93.0	0.75	0.83	0.86	78.8
52	61.0	83.0	225S/M	33.57	6.5	2.1	2.4	0.5406	14.0	31.0	362.46	67.0	1,770	93.0	93.0	93.0	0.75	0.83	0.86	100.0
53	72.0	98.0	250S/M	39.46	6.8	2.2	2.4	0.7756	8.0	18.0	445.42	68.0	1,777	93.0	93.0	93.2	0.74	0.82	0.85	119.0

Electrical tables

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

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current Il/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							
													Rated speed (rpm)	% of full load						Full load current In (A)
														Efficiency			Power factor			
	kW	HP							Hot	Cold				50	75	100	50	75	100	
IV poles																				
54	94.2	128.0	W280S/M	51.66	8.5	2.4	2.3	1.0791	12.0	26.0	548.1	68.0	1,776	93.1	93.2	93.2	0.78	0.85	0.87	152.0
55	113.0	154.0	W280S/M	61.94	7.1	2.6	2.6	1.0116	12.0	26.0	550.0	68.0	1,777	93.2	93.2	93.5	0.74	0.82	0.85	187.0
56	138.0	188.0	W315S/M	75.60	5.7	1.8	2.0	1.9090	12.0	26.0	780.0	75.0	1,778	93.5	93.5	94.5	0.73	0.81	0.83	231.0
57	165.0	224.0	W315S/M	90.29	5.8	1.9	2.0	2.4435	16.0	35.0	829.25	75.0	1,780	94.5	94.5	94.5	0.75	0.82	0.84	273.0
58	200.0	270.0	W315S/M	109.44	5.9	2.0	2.0	3.2835	16.0	35.0	990.0	75.0	1,780	94.5	94.5	94.5	0.76	0.83	0.85	327.0
59	230.0	315.0	315S/M	125.43	6.5	2.3	2.2	3.9970	23.0	51.0	1,080	75.0	1,786	94.5	94.5	94.5	0.80	0.86	0.87	367.0
60	250.0	340.0	315S/M	136.26	6.7	2.4	2.3	4.3301	22.0	48.0	1,125	75.0	1,787	94.5	94.5	94.5	0.79	0.85	0.87	399.0
61	300.0	400.0	315L	163.42	6.8	2.6	2.5	5.3048	20.0	44.0	1,310	77.0	1,788	96.1	96.2	96.2	0.76	0.84	0.87	470.0
62	362.0	492.0	315L	197.20	7.4	3.0	2.6	6.8521	18.0	40.0	1,622.59	77.0	1,788	94.4	94.5	94.5	0.77	0.84	0.87	578.0
63	425.0	578.0	355M/L	231.39	6.1	2.2	2.2	10.5603	26.0	57.0	1,840	81.0	1,789	94.5	94.5	94.5	0.78	0.84	0.86	686.0
VI poles																				
64	0.25	0.33	71M	0.22	3.3	1.7	1.7	0.0008	27.0	59.0	8.0	59.0	1,095	52.5	52.5	57.5	0.49	0.63	0.73	0.78
65	0.35	0.48	80M	0.30	3.9	1.7	2.1	0.0016	32.0	70.0	10.0	59.0	1,130	57.5	57.5	62.0	0.48	0.61	0.71	1.04
66	0.53	0.72	80M	0.46	3.7	1.6	1.7	0.0021	32.0	70.0	12.0	59.0	1,115	62.0	62.0	66.0	0.55	0.69	0.77	1.37
67	0.80	1.08	90S	0.70	3.9	1.7	1.8	0.0033	42.0	92.0	16.0	59.0	1,115	66.0	66.0	72.0	0.56	0.69	0.76	1.92
68	1.05	1.43	90S	0.93	3.6	1.6	1.9	0.0033	28.0	62.0	17.0	59.0	1,105	72.0	72.0	75.0	0.58	0.71	0.77	2.39
69	1.54	2.10	100L	1.32	5.8	2.2	2.4	0.0081	36.0	79.0	30.0	67.0	1,135	75.0	75.0	77.0	0.67	0.78	0.83	3.16
70	2.10	2.85	112M	1.79	5.3	1.9	2.4	0.0195	40.0	88.0	37.0	67.0	1,145	77.0	77.0	78.5	0.56	0.69	0.77	4.56
71	3.10	4.20	132S/M	2.58	7.4	2.1	2.4	0.0605	48.0	106.0	74.0	67.0	1,170	78.5	78.5	83.5	0.74	0.82	0.85	5.73
72	4.20	5.70	132S/M	3.51	7.3	2.2	2.4	0.0656	42.0	92.0	78.0	67.0	1,165	83.5	83.5	83.5	0.75	0.82	0.85	7.76
73	5.60	7.60	132S/M	4.68	7.9	2.4	2.7	0.0656	20.0	44.0	78.0	67.0	1,165	83.5	83.5	85.0	0.72	0.81	0.84	10.3

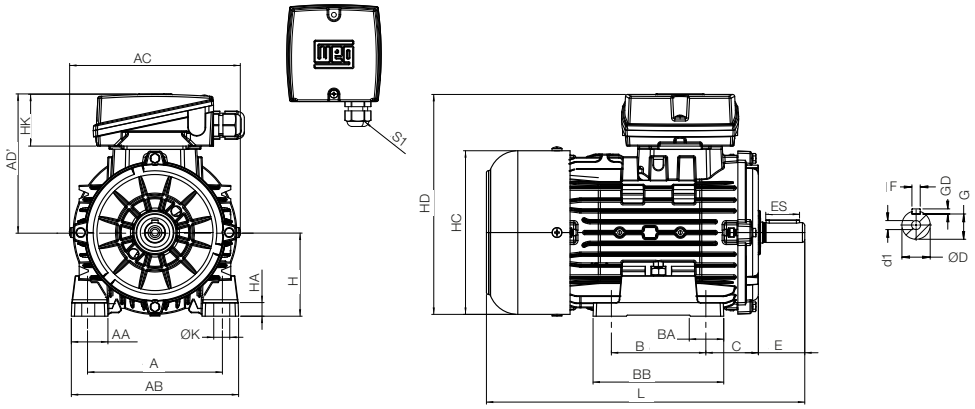
W20 Marine - Super Premium Efficiency - 60 Hz - 440 V - S2 30min

#ref	Output		Frame	Full load torque (kgfm)	Locked rotor current Il/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							
													Rated speed (rpm)	% of full load						Full load current In (A)
														Efficiency			Power factor			
	kW	HP							Hot	Cold				50	75	100	50	75	100	
II poles																				
74	94.2	128.0	W280S/M	25.81	7.5	2.6	2.7	0.4568	28.0	62.0	520.0	79.0	3,555	92.9	93.0	93.0	0.82	0.87	0.89	149.0
75	113.0	154.0	W280S/M	30.96	7.7	2.7	2.8	0.5414	24.0	53.0	565.0	79.0	3,555	92.9	93.0	93.0	0.82	0.88	0.89	179.0
76	138.0	188.0	W315S/M	37.65	6.8	2.0	2.5	1.2443	24.0	53.0	815.0	81.0	3,570	93.0	93.0	94.1	0.83	0.88	0.89	216.0
77	165.0	224.0	W315S/M	45.02	6.7	2.0	2.4	1.4664	26.0	57.0	875.0	81.0	3,570	94.1	94.1	94.1	0.85	0.89	0.90	256.0
78	200.0	270.0	315S/M	54.47	6.2	1.8	2.4	2.2447	31.0	68.0	1,015	81.0	3,576	94.1	94.1	94.1	0.85	0.89	0.89	313.0
79	250.0	340.0	315S/M	68.02	7.6	2.1	2.8	2.7685	21.0	46.0	1,115	81.0	3,580	94.0	94.1	94.1	0.83	0.88	0.89	392.0
80	300.0	400.0	315L	81.57	8.9	2.7	3.1	3.5916	18.0	40.0	1,330	82.0	3,582	94.0	94.1	94.1	0.83	0.89	0.90	465.0
81	378.0	513.0	355M/L	102.84	7.2	2.3	2.3	5.2547	28.0	62.0	1,700	87.0	3,580	94.1	94.1	94.1	0.87	0.90	0.91	579.0
82	425.0	578.0	355M/L	115.5	8.1	2.5	2.3	6.0053	22.0	48.0	1,825	87.0	3,584	94.1	94.1	94.1	0.85	0.88	0.88	673.0
IV poles																				
83	94.2	128.0	W280S/M	51.55	7.7	2.8	2.8	1.0757	27.0	59.0	560.0	68.0	1,780	93.1	93.2	93.2	0.73	0.82	0.85	156.0
84	113.0	154.0	W280S/M	61.87	7.7	2.8	2.7	1.2102	16.0	35.0	595.0	68.0	1,779	93.1	93.2	93.5	0.72	0.81	0.85	187.0
85	138.0	188.0	W315S/M	75.34	6.9	2.3	2.4	2.5962	20.0	44.0	890.0	75.0	1784	93.4	93.5	94.5	0.71	0.80	0.83	231.0
86	165.0	224.0	W315S/M	90.13	6.9	2.4	2.4	2.8253	19.0	42.0	925.0	75.0	1,783	94.5	94.5	94.5	0.71	0.80	0.83	276.0
87	200.0	270.0	315S/M	108.89	7.1	2.6	2.5	4.2191	33.0	73.0	1,115	75.0	1,789	94.5	94.5	94.5	0.79	0.85	0.87	319.0
88	250.0	340.0	315S/M	136.19	7.0	2.6	2.4	5.3294	30.0	66.0	1,255	75.0	1,788	94.4	94.5	94.5	0.81	0.86	0.88	394.0
89	300.0	400.0	315L	163.51	6.6	2.5	2.4	5.6364	23.0	51.0	1,365	77.0	1,787	96.0	96.2	96.2	0.79	0.85	0.87	470.0
90	362.0	492.0	315L	197.20	7.4	3.0	2.6	6.8521	18.0	40.0	1,505	77.0	1,788	95.3	95.4	95.4	0.77	0.84	0.87	572.0
91	425.0	578.0	355M/L	231.26	6.7	2.6	2.4	11.0972	22.0	48.0	1,930	81.0	1,790	94.5	94.5	94.5	0.77	0.84	0.86	686.0

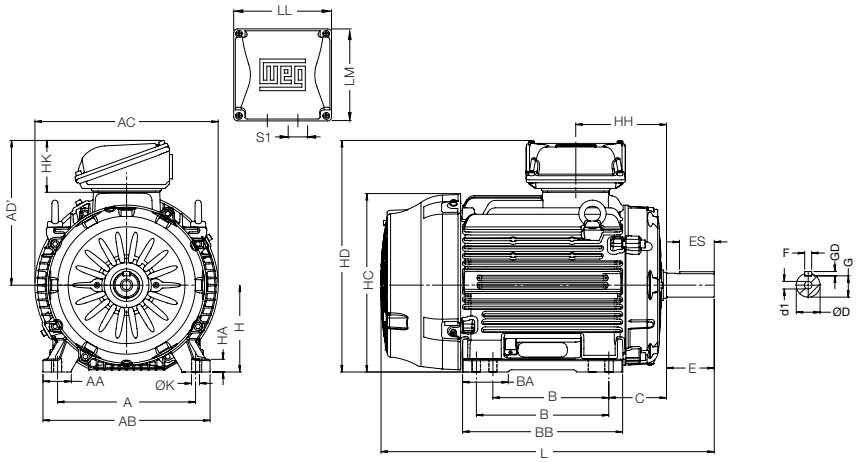
Mechanical data

Foot mounted motors, terminal box top

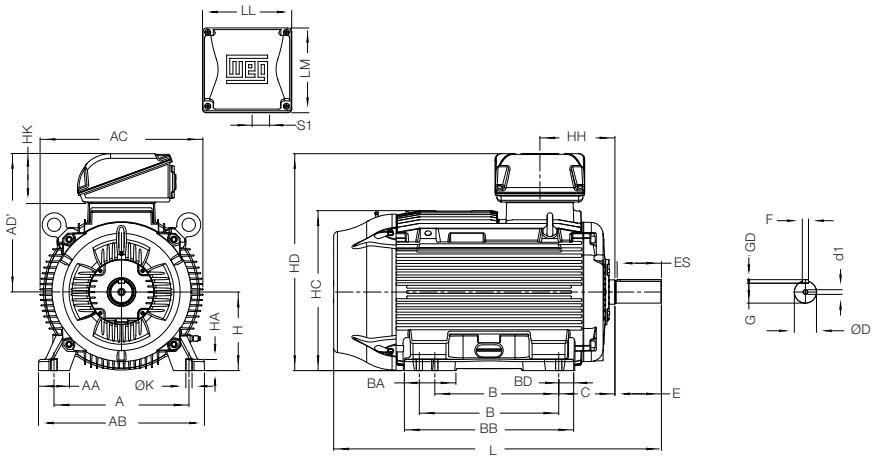
Frames 63 to 132



Frames 160M to W315S/M



Frames 315S/M to 355M/L



Mechanical data

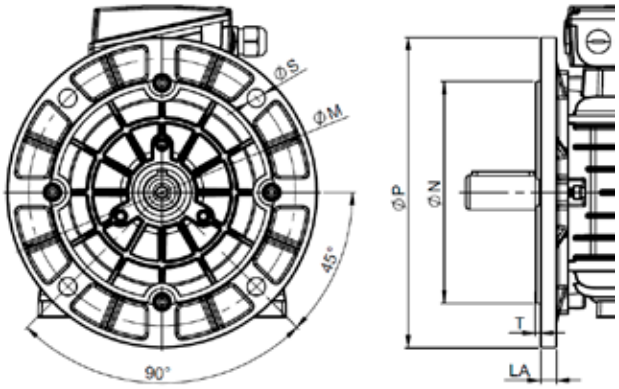
Frames	A	AA	AB	AC	B	BA	BB	C	E	D	H	HD	HA	K	S1	d1	F	GD	G	ES	L
63M	100	22	119	133	80	27.6	100	40	23	11	63	166.7	7	7	1xM20+ 1xM16	M4	4	4	8.5	16	205
71M	112	30.6	130.6	151	90	24.2	105.6	45	30	14	71	183.2	9			M5	5	5	11	22	256.3
80M	125	33	159	159	100	32	125	50	40	19	80	213.2	13	10		M6	6	6	15.5	32	264/306/335
90S/L	140	40	180	180	100/125	34/35	130/155	56	50	24	90	230.7	12		1xM25+ 1xM16	M8	8	7	20	40	340/370
100L	160	46	200	200	140	40	175	63	60	28	100	252	13	12		M10			24	50	375/410
112M	190	51	228	228		38		70			112	286	14		2xM32						420.4
132S/M	216	62.2	262	264	140/178	35.6	219	89	80	38	132	324	15			M12	10	8	33	70	466/491
160M	254	36	292	358	210	-	246	108	110	42k6	160	437.5	17	14.5	2xM40x1.5	DM16	12	8	37	80	621
160L					254		290														665
180M	279	51	329	389	241		288	121		48k6	180	473.5	19				14	9	42.5		684.5
180L					279		325														722.5
200M/L	318	65	385	414	267/305	105	369	133		55m6	200	533.5	30	18.5	2xM50x1.5	DM20	16	10	49		767.5
W225S/M	356	80	436	414	286/311	85	369	149	140		225	501	25	18.5	2xM50x1.5	DM20	18	11	53	125	817
225S/M*				488		102	395		110			622	28				16	10	49	100	856.5
225S/M									140	60m6							18	11	53	125	886.5
250S/M*	406	100	506	528	331/349	135	447	168			250	667	30	24	2xM63x1.5						965.5
250S/M										70m6									58		
W280S/M*	457		557		368/419	143	509	190		65m6	280	697									994
W280S/M									170	80m6							20	12	67.5		1,024
W315S/M*	508	120	630	627	406/457	167	561	216	140	65m6	315	790	35	28			18	11	58		1,073/1,123
W315S/M									170	85m6							22	14	71	160	1,103/1,153
315S/M*						184	626		140	65m6		849	48				18	11	58	125	1,246
315S/M									170	85m6							22	14	71	160	1,276
315L*					508	219	752		140	70m6		891					18	11	58	125	1,356
315L									170	90m6							22	14	71	160	1,386
355M/L*	610	140	750	736	560/630	230	760	254	170	90m6	355	981	50		2xM80x2.0		20	12	67.5	125	1,442
355M/L									210	100m6						DM24	28	16	90	200	1,482

(*) Shaft dimensions for the 2-pole motor.

Mechanical data

Flange mounted motors

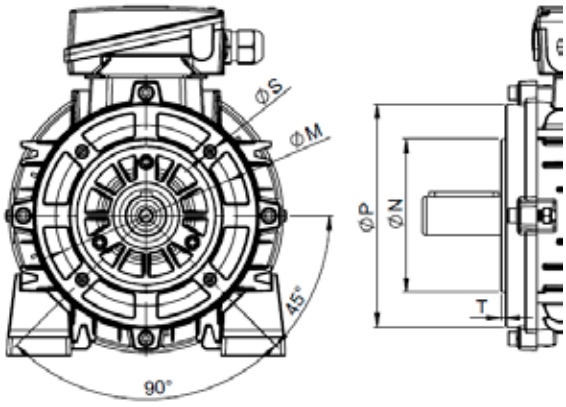
“FF” flange



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	FF-400	18	400	350	448				
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 aluminum 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 aluminum flanges and -0.5 mm for polymeric.

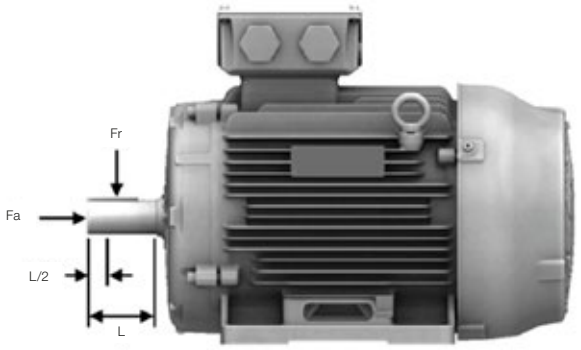
Sound pressure level details

Sound pressure levels at 50 Hz			
Frame	IE3/IE4		
IEC	2P	4P	6P
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	57	-
180	67	62	-
200	72	63	-
W225	74	64	-
225	74	70	-
250	74	64	-
W280	74	64	-
W315	77	71	-
315	78	73	-
355	80	78	-

Sound pressure levels at 60 Hz			
Frame	IE3/IE4		
IEC	2P	4P	6P
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	61	-
180	72	65	-
200	77	65	-
W225	79	67	-
225	78	73	-
250	79	68	-
W280	79	68	-
W315	81	75	-
315	82	77	-
355	87	81	-

Permissible loads (axial and radial thrust of the bearings)

Axial load							
Maximum permissible axial load 50 Hz L10 20,000 hours in Newton							
Frame	Poles	Horizontal		Vertical with shaft upwards		Vertical with shaft downwards	
		Pushing	Pulling	Pushing	Pulling	Pushing	Pulling
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	0.4	2.3	1.0	1.8
	4	1.1	2.4	0.8	2.9	1.6	2.2
160L	2	0.6	2.0	0.4	2.4	1.0	1.7
	4	1.1	2.4	0.7	3.0	1.6	2.1
180M	2	1.0	2.4	0.8	2.9	1.5	2.1
	4	1.6	3.0	1.1	3.8	2.4	2.5



Axial load							
Maximum permissible axial load 50 Hz L10 20,000 hours in Newton							
Frame	Poles	Horizontal		Vertical with shaft upwards		Vertical with shaft downwards	
		Pushing	Pulling	Pushing	Pulling	Pushing	Pulling
180L	2	1.0	2.4	0.7	2.9	1.6	2.1
	4	1.6	2.9	1.0	3.9	2.5	2.4
200M	2	1.3	2.7	0.9	3.4	2.0	2.3
	4	2.1	3.4	1.5	4.3	2.9	2.9
200L	2	1.3	2.7	0.9	3.4	2.1	2.2
	4	2.1	3.4	1.4	4.4	3.0	2.8
W225S/M	2	1.4	3.2	0.9	4.0	2.2	2.7
	4	2.2	4.0	1.6	5.1	3.2	3.4
225S/M	2	1.4	3.2	0.7	4.2	2.4	2.5
	4	2.2	4.0	1.3	5.4	3.6	3.1
250S/M	2	1.3	3.1	0.5	4.5	2.7	2.3
	4	2.0	3.8	0.8	5.8	4.0	2.6
W280S/M	2	3.2	5.0	2.4	6.4	4.6	4.2
	4	5.5	7.3	4.2	9.3	7.5	6.0
W315S/M	2	2.8	4.9	1.1	7.6	5.5	3.2
	4	6.2	8.3	3.9	11.9	9.8	6.0
315L	2	2.5	4.6	0.0	9.0	6.9	1.6
	4	5.6	8.0	1.9	13.7	11.3	4.3
355M/L	2	3.0	5.1	0.0	10.1	8.0	1.8
	4	6.8	9.6	2.5	16.5	13.7	5.3

Radial load							
Maximum permissible radial load in kN 50 Hz L10 20,000 hours							
Position		Horizontal		Vertical with shaft upwards		Vertical with shaft downwar ds	
Frame	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
	6	0.4	0.6	0.4	0.6	0.4	0.6
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
	6	0.6	1.0	0.6	1.0	0.6	1.0
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
	6	1.0	1.0	1.0	1.1	1.0	1.1
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
	6	1.0	1.0	1.0	1.0	1.0	1.0
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
	6	1.4	1.6	1.4	1.6	1.4	1.6
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
	6	1.4	1.5	1.4	1.5	1.4	1.5
160M	2	1.1	1.2	0.7	0.8	1.5	1.7
	4	1.7	1.9	1.2	1.4	1.9	2.1
160L	2	1.1	1.2	0.6	0.7	1.6	1.7
	4	1.7	1.9	1.1	1.2	1.9	2.2
180M	2	1.9	2.1	1.3	1.4	2.1	2.3
	4	2.4	2.7	1.8	2.0	2.6	2.9
180L	2	1.9	2.1	1.2	1.3	2.2	2.4
	4	2.4	2.6	1.7	1.8	2.7	2.9
200M	2	2.4	2.6	1.7	1.8	2.6	2.8
	4	3.0	3.3	2.5	2.8	3.2	3.5
200L	2	2.4	2.6	1.5	1.7	2.6	2.9
	4	3.0	3.3	2.4	2.7	3.3	3.6
W225S/M	2	2.7	2.9	1.6	1.8	3.0	3.2
	4	3.2	3.6	2.5	2.8	3.5	3.9

Radial load							
Maximum permissible radial load in kN 50 Hz L10 20,000 hours							
Position		Horizontal		Vertical with shaft upwards		Vertical with shaft downwar ds	
Frame	Poles	L	L/2	L	L/2	L	L/2
225S/M	2	2.8	3.0	1.3	1.4	3.1	3.4
	4	3.3	3.6	2.1	2.3	3.7	4.1
250S/M	2	2.6	2.8	0.8	0.9	3.1	3.4
	4	3.2	3.5	1.3	1.4	3.8	4.1
W280S/M	2	4.8	5.3	4.3	4.7	5.3	5.7
	4	7.1	7.8	7.4	8.1	7.7	8.4
W315S/M	2	4.8	5.2	2.0	2.2	5.6	6.1
	4	8.6	9.4	7.2	7.8	9.7	10.6
315L	2	4.2	4.5	0.0	0.0	3.2	3.4
	4	8.0	8.6	3.5	3.7	8.4	9.0
355M/L	2	5.0	5.4	0.0	0.0	3.6	3.8
	4	10.1	11.0	4.4	4.8	10.6	11.5

WEG GLOBAL PRESENCE

67 manufacturing sites
in 18 countries

COMMERCIAL OPERATIONS AND TECHNICAL SUPPORT IN

41 countries

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- Argentina
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- Brazil
- Canada
- Chile
- China
- Colombia
- Denmark
- Ecuador
- Egypt
- Finland
- France
- Germany
- Ghana
- India
- Indonesia
- Italy
- Japan
- Kazakhstan
- Malaysia
- Mexico
- Netherlands
- New Zealand
- Norway
- Peru
- Poland
- Portugal
- Saudi Arabia
- Singapore
- South Africa
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