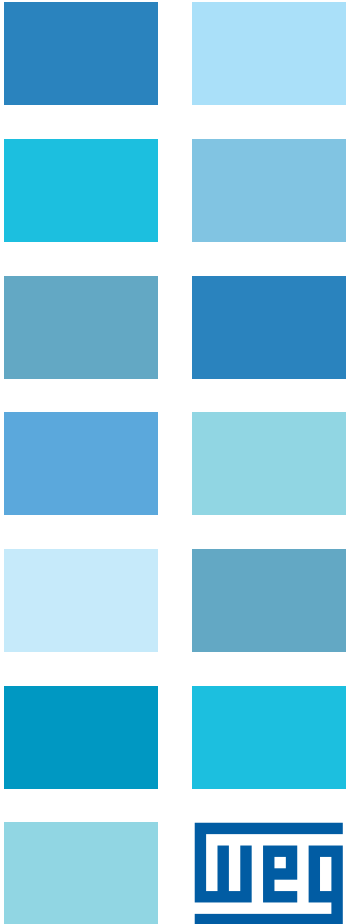
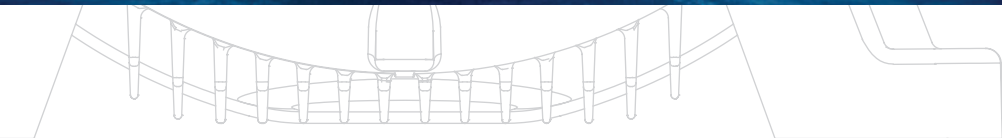
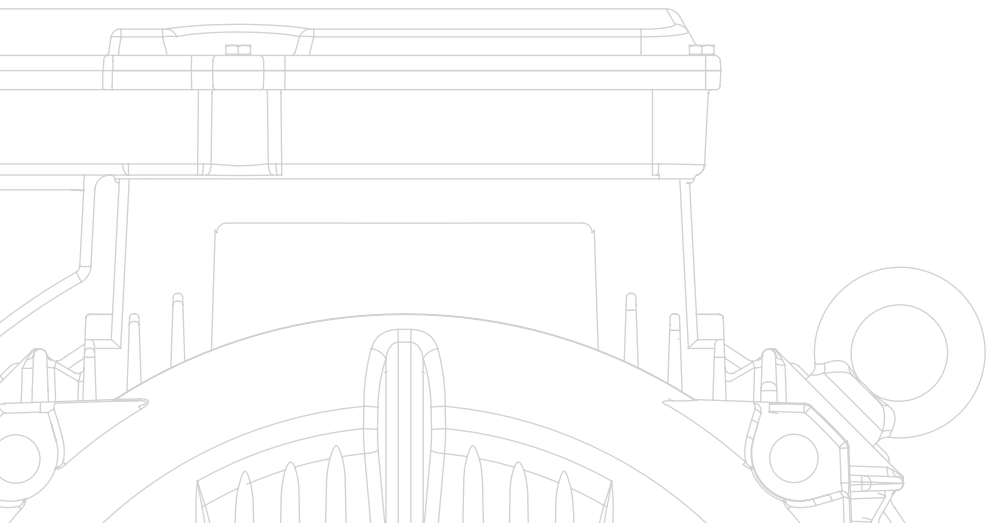


W22 Marine

Low Voltage Three Phase Motors



The WEG Group

WEG is a globally-accepted Supplier of high performance electric motors for the marine industry. Supported by more than 30,000 employees and daily production of more than 60,000 motors, WEG is one of the largest suppliers of electric motors in the world.

With exports to over 135 Countries and revenues exceeding US\$ 3.5 Billion, WEG's global presence is backed by its strategically located manufacturing locations, a branch network established in 28 countries and a network of distributors and representatives spanning all 5 continents.

WEG has developed successful, long-lasting relationships with countless customers operating in the marine market - relationships of which we are justifiably proud - that are built on our commitment to meet or exceed client's expectations thus assuring continued reliable operation of their vessels.



Availability = Global service network + Spare parts



Partnership = Local single contact point + Project management



Competitiveness = World class technologies + Class approvals



WEGnology = Know-how + One-stop shop

Whenever you need a reliable supplier of products for **marine applications**, count on **WEG**.





Serving the **Marine Industry** Globally

Our global structure allows us to be closer to our customers. Over 32 subsidiaries established in key countries are prepared to provide you with technical and commercial support; our manufacturing plants strategically located in the main markets can serve you with short deliveries; and our network of over 1,250 Authorized Service Agents located in the five continents are fully equipped to give you prompt after sales and service support.



Company Overview

- Manufacturing plants in 9 countries
- 32 subsidiaries present in 28 countries
- Over 1,250 Authorized Service Agents across five continents

Marine Certifications



U.K.



France



USA



Norway



Germany



Italy



Russia



China



Japan




Korea

Table of Contents

- General Information** 05
- Standards and Classification Societies** 06
 - Essential and Non-Essential Services 06
- Documentation requirements for Marine Motors** 07
 - Motors Covered by Type Approval Certification 07
 - Motors Not Covered by Type Approval Certification 08
- Product Specification** 09
- Electrical Data**
 - Standard Efficiency IE1 - Ambient Temperature 45°C 10
 - High Efficiency IE2 - Ambient Temperature 45°C 18
 - Premium Efficiency IE3 - Ambient Temperature 45°C 26
 - Standard Efficiency IE1 - Ambient Temperature 50°C 34
 - High Efficiency IE2 - Ambient Temperature 50°C 42
 - Premium Efficiency IE3 - Ambient Temperature 50°C 50
- Mechanical Data**
 - Foot Mounted Motors (Top Terminal Box) 58
 - Foot Mounted Motors (Side Terminal Box) 60
 - Flange Mounted Motors 62
 - Drip Cover Data 62
 - Terminal Box Drawings 63





W22 Marine Motors

Reliability is of the utmost importance for electric motors utilized in the extreme operating conditions associated with marine applications: humid, salt-laden and corrosive atmospheres. Based on a comprehensive range of standard products, WEG supplies electric motors in accordance with international standards and in compliance with the requirements of the main Classification Societies.

Utilized across the marine industry on offshore platforms, ocean going vessels, passenger ships etc., WEG motors are found both on deck and below deck operating in a wide range of applications such as: pumping systems, fans & ventilation, winches & hoists, oil separators, steering gear, thrusters, hydraulic power packs, starting air compressors amongst many others.

As a compliment to our wide range of standard machines, WEG can provide solutions to suit special requirements, enabling us to develop or adapt products to meet the specific requirements of ship owners, shipyards and original equipment manufacturers.

2
2
24
23
24
21
20
19
18
17
6
15
14
13
12
11
10
9
8
7
6
5
4

Standards and Classification Societies

The W22 range of marine motors are supplied in compliance with the general rules of the main marine classification societies, members of IACS (International Association of Classification Societies).

Code	Name	Country
ABS	American Bureau of Shipping	USA
BV	Bureau Veritas	France
CCS	China Classification Society	China
DNV.GL	Det Norske Veritas / Germanischer Lloyd	Norway / Germany
KRS	Korean Register of Shipping	Korea
LR	Lloyd's Register	United Kingdom
NK	Nippon Kaiji Kyokai	Japan
RINA	Registro Italiano Navale	Italy
RMRS	Russian Maritime Register of Shipping	Russia

“Essential” and “Non-Essential” Services

Depending on the motor’s intended application, the classification societies normally define equipment for either “Essential Service” or “Non-Essential Service”.

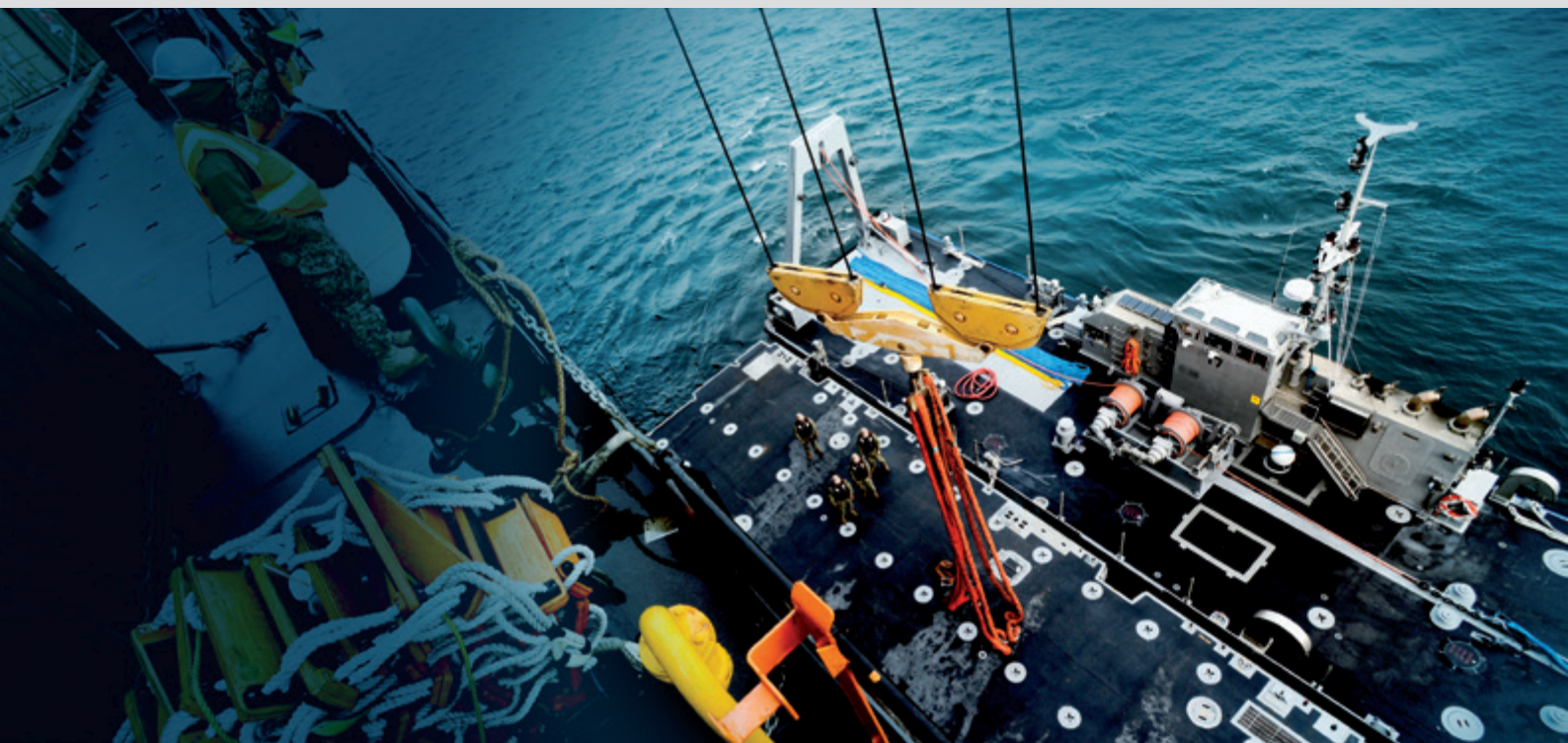
Essential Service

“Essential” or “Primary Essential Services” are those services that need to be in continuous operation for maintaining the vessel’s manoeuvrability with regard to propulsion and steering.

Essential services are also those services that need not necessarily be in continuous operation for maintaining the vessel’s manoeuvrability, but which are necessary for maintaining the vessel’s functions and the safety of people - emergency services included. Examples of equipment which can be classed as Essential Service: Propulsion motors and shaft generators, motors for steering gear, anchor winches, thruster motors (e.g. for drill ships), lubrication and cooling pumps and engine starting compressors.

Non-Essential Service

“Non-Essential Services” are all other applications that are not listed for essential services and which do not represent any potential danger to the safety or steering of the vessel. They are implemented according to the instructions of the classification society, but no separate testing is necessary (factory certificates are accepted).



Documentation Requirements for Marine Motors ⁽¹⁰⁾

Motors Covered by Type Approval Certification

Classification Society	Ambient (°C)	Max. Permitted Temp Rise (K)	Duty ⁽¹⁾	Output	Routine Test Report ⁽²⁾	Type Approval Certificate ⁽⁶⁾	Additional Classification Society's Certificate based on WEG Test Reports ⁽³⁾	Specific Classification Society's Certificate based on Witnessed Tests ⁽⁴⁾	Shaft Material		Documentation not required by Classification Societies ⁽⁵⁾
									Shaft Test Report 3.2 by Class. Society ⁽⁹⁾	Shaft Test Report 3.1 by WEG ⁽⁹⁾	
ABS	45	75/100	NE								X
			E	< 100 kW	X	X					
			E	≥ 100 kW			X		X ⁽⁷⁾	X	
BV	45	75/100	NE								X
			E	< 100 kW	X	X					
			E	≥ 100 kW			X		X ⁽⁷⁾	X	
DNV.GL	45	75/100	NE								X
			E	< 100 kW	X	X					
			E	100 ≤ kW ≤ 300	X	X			X ⁽⁷⁾	X	
			E	> 300 kW				X	X ⁽⁷⁾	X	
RINA	45	75/100	NE								X
			E	< 100 kW	X	X					
			E	≥ 100 kW			X ⁽⁸⁾		X ⁽⁷⁾	X	
RMRS	45	75/100	E	< 20 kW	X	X					
			E	20 ≤ kW ≤ 300			X				
			E	> 300 kW				X ⁽⁸⁾			
CCS	45	75/100	NE								X
			E	< 50 kW	X	X					
			E	≥ 50 kW				X	X ⁽⁷⁾	X	

Notes:

- (1) Some Marine Classification Societies define the motors as being for "Essential Service" - E, or "Non-Essential service" - NE. Where the class of service is not specified by the client, WEG will consider the motors to be for Non-Essential Service.
- (2) Unwitnessed Routine Test on all motors in the batch according to requirements of each classification society.
- (3) Unwitnessed Routine Test on all motors in the batch according to requirements of each classification society. It is necessary to provide for WEG the Shipyard, Hull Number and Application of motor(s) to permit issue of the Certificate.
- (4) Witnessed Type Test on the first motor and Witnessed Routine Test on the remaining motors, according to requirements of each classification society. It is necessary to provide for WEG the Shipyard, Hull Number and Application of the motor(s) to permit issue of the Certificate.
- (5) A Works/Conformity certificate is issued by WEG. Upon request WEG can supply a Line Test Report.
- (6) The motor is supplied with a copy of Type Approval Certificate (TAC).
- (7) Only for propulsion services and additionally in the case of DNV.GL when the torque is >100 kNm.
- (8) The motor is supplied with the certificate number on the nameplate or marine society logo (as applicable).
- (9) According to Standard EN 10204:2004.
- (10) Documentation requirements respecting the general rules of the marine societies for steel vessels.



Documentation Requirements for Marine Motors ⁽¹⁰⁾

Motors Not Covered by Type Approval Certification

Classification Society	Ambient Temp. (°C)	Max. Permitted Temp Rise (K)	Duty ⁽¹⁾	Output	Routine Test Report ⁽²⁾	Specific Classification Society's Certificate based on Witnessed Tests ^{(3) (6)}	Shaft Material		Documentation not required by Classification Societies ⁽⁵⁾	
							Inspection Certificate 3.2 ⁽⁴⁾ by Class. Society	Test Report 3.1 by WEG ⁽⁴⁾		
ABS	45	75/100	NE						X	
			E	< 100 kW	X					
			E	≥ 100 kW		X	X ⁽⁷⁾	X		
BV	45	75/100	NE						X	
			E	< 100 kW	X					
			E	≥ 100 kW		X	X ⁽⁷⁾	X		
DNV.GL	45	75/100	NE						X	
			E	< 100 kW	X					
			E	≥ 100 kW		X	X ⁽⁷⁾	X		
LRS	45	75/100	NE						X	
			E	< 100 kW	X					
			E	100 ≤ kW < 250		X	X ⁽⁷⁾	X ⁽⁹⁾		
			E	≥ 250 kW		X	X			
RMRS	45	75/100	E	All		X ⁽⁶⁾				
RINA	45	75/100	NE						X	
			E	< 100 kW	X					
			E	≥ 100 kW		X ⁽⁶⁾	X ⁽⁷⁾	X		
CCS	45	75/100	NE						X	
			E	< 50 kW	X					
			E	≥ 50 kW		X	X ⁽⁷⁾	X		
NK	45	75/100	NE						X	
			E	< 100 kW	X			X		
			E	≥ 100 kW		X	X			
KRS	50	70/90	NE						X	
			E	< 100 kW	X			X		
			E	≥ 100 kW		X	X			

Notes:

- (1) Some Marine Classification Societies define the motors as being for "Essential Service" - E, or "Non-Essential service" - NE. Where the class of service is not specified by the client, WEG will consider the motors to be for Non-Essential Service.
- (2) Unwitnessed Routine Test on all motors in the batch according to requirements of each classification society.
- (3) Witnessed Type Test on the first motor and Witnessed Routine Test on the remaining motors, according to requirements of each classification society. It is necessary to provide for WEG the Shipyard, Hull Number and Application of the motor(s) to permit issue of the Certificate.
- (4) According to Standard EN 10204:2004.
- (5) A Works/Conformity certificate is issued by WEG. Upon request WEG can supply a Line Test Report.
- (6) A Specific Certificate is issued by the classification society for each batch of motors and a copy should be send to the client.
- (7) Only for propulsion services and additionally in the case of LRS, for dynamic positioning services, and for DNV.GL when the torque is >100 kNm.
- (8) The motor is supplied with the specific certificate number on the nameplate or marine society logo (as applicable).
- (9) According to standard EN 10204:2004. For LRS, the shaft has to be either:
 - made at works which have been approved by LRS (consult a list of approved manufacturers on: <https://www.cdlive.lr.org/e.g. Hoselmann>), or
 - the certificate should contain a declaration that the products comply with the requirements of LRS Rules or the applicable National or International standard.
- (10) Documentation requirements respecting the general rules of the marine societies for steel vessels.

Product Specification

Standard Features

- Three phase, low voltage induction motors
- Squirrel cage rotor (aluminium die cast)
- Efficiency levels: IE1, IE2 or IE3
- Cooling method: IC411 (Totally Enclosed Fan Cooled)
- Construction: Cast iron FC-200 (EN GJL 200)
- Rated outputs: 0.12kW up to 500kW
- Frame sizes: 63-355A/B
- Number of poles: 2, 4, 6 and 8
- Degree of protection: IP55
- Insulation class: "F" (temperature rise class B)
- Frequency: 50 or 60Hz
- Rated voltages: 220-240/380-415//440-460V (frames 63-100L), 380-415/660//440-460V (frames 112M and above)
- Ambient temperature: 45°C / 50°C (per classification society)
- Altitude: up to 1000m a.s.l.
- Design N
- Service factor: S1 continuous duty
- Thermal protection: 3 x PTC thermistors standard on frame sizes 160 and above
- Regreasing nipples: standard for frame sizes 225 and above
- Stainless steel rating plate
- Anti-condensation drain holes
- External earth terminal
- Metric cable entries in terminal box
- Balancing with 1/2 key, vibration severity grade A according to IEC 60034-14
- Suitable for inverter duty applications
- Paint colour: RAL 5009 blue

Optional Features

- Efficiency level: IE4 Super Premium (from frame size 132)
- Cooling method: IC410 (Totally Enclosed Non Ventilated)
- Degree of protection: IP56, IP65 or IP66
- Number of poles: 10, 12, 2-speeds etc.
- Non-standard voltages
- Anti-condensation heaters
- Insulation class: "H"
- Design H
- Service factor 1.15
- Thermal protection: RTD's (Pt100), thermostats, thermocouples
- Roller bearings for frame size 160 and above
- Non-standard shaft extensions / flanges
- Cable glands
- Drip proof canopy for vertical mounting
- Brakes (up to frame 250)
- Forced ventilation / encoders / insulated bearings for VFD applications
- Reduced balancing meeting vibration severity grade B according IEC 60034-14
- Special marine paint finishes according ISO 12944

Other options available on request.



Electrical Data

W22 Marine Motors - Standard Efficiency - IE1 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*		Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque T _b /T _n	Inertia J (kgm ²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V							
									Hot	Cold			Rated speed (rpm)	% of full load						Full load current I _n (A)
														Efficiency			Power factor			
														50	75	100	50	75	100	
0.12	0.12	0.16	63	0.42	3.8	2.3	2.3	0.0001	27	59	4.3	52	2720	45.5	53.5	56.0	0.55	0.68	0.80	0.39
0.18	0.18	0.25	63	0.62	5.0	2.4	2.4	0.0002	10	21	4.7	52	2790	52.0	57.0	59.0	0.54	0.67	0.77	0.57
0.25	0.25	0.33	63	0.88	4.3	2.5	2.3	0.0002	25	54	5.1	52	2720	52.0	57.0	60.0	0.50	0.65	0.76	0.79
0.37	0.37	0.50	71	1.28	4.9	2.3	2.4	0.0003	16	35	5.5	56	2770	62.0	66.5	67.0	0.60	0.75	0.84	0.95
0.55	0.55	0.75	71	1.89	5.0	2.5	2.5	0.0004	7	15	6.5	56	2780	64.0	70.0	70.0	0.56	0.71	0.82	1.38
0.75	0.71	0.97	80	2.44	5.3	2.6	2.7	0.0007	14	30	9.5	59	2775	67.9	71.7	72.3	0.60	0.74	0.83	1.71
1.1	1.05	1.42	80	3.56	6.6	2.7	2.7	0.0009	7	15	13.5	59	2815	73.5	76.3	76.6	0.62	0.75	0.83	2.38
1.5	1.43	1.94	90S	4.79	6.6	2.8	2.7	0.0020	7	15	15.0	68	2850	76.5	78.9	78.6	0.61	0.75	0.82	3.20
2.2	2.09	2.84	90L	6.98	7.1	2.7	3.0	0.0026	7	15	16.7	68	2860	80.2	81.8	81.6	0.61	0.75	0.84	4.40
3	2.85	3.87	100L	9.5	7.0	2.4	2.9	0.0059	9	19	23.5	67	2880	80.5	82.5	82.1	0.67	0.80	0.86	5.83
4	3.8	5.2	112M	12.6	7.1	2.5	3.1	0.0081	9	19	31.0	64	2885	81.2	84.1	84.9	0.69	0.81	0.86	7.51
5.5	5.5	7.5	132S	18.1	6.5	2.4	3.0	0.0180	11	24	42.0	68	2910	85.0	86.0	86.0	0.71	0.81	0.87	10.6
7.5	7.5	10	132S	24.7	6.4	2.3	2.6	0.0234	11	24	65.0	68	2900	85.5	86.5	86.5	0.72	0.82	0.87	14.4
9.2	9.2	12.5	132M	30.2	7.5	2.7	3.1	0.0234	8	18	65.0	68	2910	87.0	87.5	87.5	0.70	0.81	0.86	17.6
11	10.5	14.3	160M	34.2	7.1	2.1	2.8	0.0409	11	24	97.0	67	2935	87.5	88.6	88.5	0.69	0.80	0.85	20.1
15	14.3	19.4	160M	46.6	7.5	2.3	2.9	0.0517	9	19	108	67	2935	89.1	90.0	89.6	0.69	0.80	0.85	27.1
18.5	17.6	23.9	160L	57.1	8.1	2.5	3.2	0.0626	7	15	122	67	2945	90.1	90.7	90.4	0.68	0.79	0.85	33.1
22	20.9	28.4	180M	67.9	7.7	2.3	3.2	0.1084	7	15	156	67	2940	90.3	91.2	90.9	0.74	0.84	0.88	37.7
30	28.5	38.8	200L	92.3	6.6	2.2	2.5	0.1526	18	39	220	72	2950	91.4	92.1	91.7	0.74	0.84	0.87	51.6
37	35.2	47.8	200L	114	6.8	2.3	2.5	0.1950	16	35	232	72	2950	91.9	92.4	92.1	0.74	0.84	0.87	63.4
45	45	60	225S/M	145	6.9	2.0	2.8	0.2471	10	22	356	75	2960	91.8	92.6	92.4	0.78	0.86	0.89	79.0
55	55	75	250S/M	178	6.7	2.2	2.7	0.3736	12	26	413	75	2960	92.2	93.0	92.8	0.79	0.86	0.89	96.1
75	75	100	280S/M	241	6.8	1.8	2.8	0.8492	28	62	630	77	2975	92.5	93.5	93.3	0.78	0.86	0.88	132
90	90	125	280S/M	289	7.0	2.0	2.8	0.9804	20	44	664	77	2975	93.0	93.8	93.7	0.80	0.87	0.89	156
110	110	150	315S/M	353	6.8	1.8	2.7	1.52	26	57	848	77	2980	93.3	94.3	94.0	0.78	0.85	0.88	192
132	132	175	315S/M	423	6.7	1.8	2.6	1.66	24	53	879	77	2980	93.5	94.3	94.3	0.79	0.86	0.89	227
150	150	200	315S/M	482	7.0	2.2	3.0	1.95	20	44	880	77	2975	94.0	94.5	94.5	0.77	0.85	0.87	263
160	160	220	315S/M	513	7.6	2.0	2.8	2.04	21	46	950	77	2980	94.0	94.5	94.5	0.80	0.87	0.90	272
185	185	250	315S/M	593	7.7	2.0	2.8	2.23	14	31	993	77	2980	94.4	94.6	94.6	0.77	0.84	0.88	321
200	200	270	315L	641	7.7	2.1	2.8	2.46	17	37	1135	78	2980	94.4	94.7	94.6	0.80	0.87	0.90	339
220	190	258	315L	609	8.1	2.2	2.9	2.45	17	37	1135	78	2980	94.2	94.8	94.6	0.78	0.87	0.90	322
250	247	335	315L	793	7.4	2.5	2.6	3.70	20	43	1340	78	2975	94.3	94.8	94.8	0.82	0.89	0.91	413
260	260	350	315L	835	7.0	2.4	2.5	3.70	20	44	1340	78	2975	94.5	94.8	94.8	0.83	0.89	0.91	435
280	266	361	315L	852	9.0	2.9	2.9	4.16	14	30	1443	78	2980	94.4	94.9	94.8	0.82	0.89	0.90	450
300	300	400	315L	962	7.5	2.5	2.5	4.15	12	26	1500	78	2980	94.8	95.0	95.0	0.84	0.88	0.90	506
315	285	387	315L	913	7.9	2.6	2.6	4.14	12	26	1500	78	2980	94.6	95.1	95.0	0.82	0.89	0.90	481
355	355	480	355M/L	113	7.9	2.2	2.8	6.01	14	31	1830	80	2985	94.6	95.0	94.8	0.86	0.90	0.91	594

Note:

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) * 9555 / n (rpm)$.

W22 Marine Motors - Standard Efficiency - IE1 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	
kW	kW	HP																		
II pole																				
0.12	0.12	0.16	2690	48.0	55.0	58.8	0.59	0.74	0.84	0.37	56	3360	44.7	52.1	57.7	0.50	0.61	0.72	0.36	
0.18	0.18	0.25	2760	54.0	58.0	59.5	0.59	0.73	0.82	0.56	56	3440	49.5	55.0	58,4 ⁽¹⁾	0.52	0.64	0.73	0.53	
0.25	0.25	0.33	2685	54.0	59.0	60.0	0.56	0.71	0.81	0.78	56	3360	50.5	56.4	59,8 ⁽¹⁾	0.50	0.61	0.71	0.74	
0.37	0.37	0.5	2740	64.6	67.5	66.6	0.67	0.81	0.88	0.96	56	3395	61.4	66.7	68,7 ⁽¹⁾	0.59	0.72	0.81	0.84	
0.55	0.55	0.75	2740	65.4	70.0	70.0	0.61	0.76	0.84	1.42	60	3410	64.0	68.9	72.0	0.54	0.68	0.77	1.25	
0.75	0.71	0.97	2750	70.2	72.7	72.4	0.67	0.80	0.87	1.72	60	3405	65.9	72.2	76.1	0.61	0.73	0.81	1.45	
1.1	1.05	1.42	2790	74.9	76.7	76.4	0.68	0.81	0.87	2.40	62	3440	72.1	76.2	78,2 ⁽¹⁾	0.61	0.74	0.82	2.06	
1.5	1.43	1.94	2830	77.6	79.5	79.2	0.68	0.80	0.86	3.19	62	3475	74.9	79.0	80,7 ⁽¹⁾	0.62	0.74	0.81	2.75	
2.2	2.09	2.84	2840	80.4	81.7	81.6	0.68	0.81	0.87	4.47	68	3470	79.3	81.6	82.2	0.61	0.74	0.82	3.89	
3	2.85	3.87	2865	81.6	83.3	83.1	0.73	0.84	0.89	5.86	68	3495	78.7	82.1	83.4	0.68	0.79	0.85	5.05	
4	3.8	5.2	2870	82.3	84.3	84.5	0.75	0.85	0.89	7.68	71	3495	79.6	83.0	84,4 ⁽¹⁾	0.69	0.80	0.86	6.57	
5.5	5.5	7.5	2895	85.4	86.0	86.0	0.77	0.85	0.89	10.9	69	3520	83.3	85.7	86.3	0.70	0.82	0.87	9.19	
7.5	7.5	10	2890	86.3	86.5	86.5	0.78	0.86	0.89	14.8	72	3515	84.3	86.3	87.5	0.71	0.82	0.87	12.5	
9.2	9.2	12.5	2900	87.9	88.0	88.0	0.76	0.85	0.89	17.8	72	3525	85.6	87.7	88.3	0.70	0.81	0.86	15.2	
11	10.5	14.3	2925	88.2	88.8	88.3	0.75	0.84	0.88	20.5	72	3555	87.6	88.2	88.7	0.67	0.79	0.85	17.5	
15	14.3	19.4	2945	89.7	89.9	89.3	0.74	0.84	0.87	28.0	72	3545	88.5	89.9	90.1	0.67	0.79	0.84	23.7	
18.5	17.6	23.9	2940	90.6	90.9	90.3	0.73	0.83	0.88	33.7	72	3550	89.5	90.8	91.0	0.66	0.79	0.85	28.6	
22	20.9	28.4	2930	90.6	91.0	90.4	0.78	0.86	0.89	39.5	72	3545	89.5	90.9	91.2	0.73	0.83	0.87	33.1	
30	28.5	38.8	2945	91.7	92.0	91.4	0.78	0.86	0.88	53.8	76	3555	90.5	91.7	91.9	0.72	0.83	0.87	44.7	
37	35.2	47.8	2945	92.2	92.4	91.8	0.79	0.86	0.88	66.2	76	3555	91.2	92.2	92.4	0.72	0.82	0.87	55.0	
45	45	60	2955	91.9	92.5	92.5	0.82	0.88	0.90	82.1	79	3560	90.1	91.5	92.0	0.75	0.86	0.89	69.0	
55	55	75	2955	92.3	92.9	92.5	0.83	0.88	0.90	100	79	3565	90.8	92.1	92.6	0.76	0.86	0.89	83.8	
75	75	100	2970	92.7	93.5	93.1	0.81	0.88	0.89	138	79	3575	90.6	92.1	93.0	0.76	0.86	0.88	116	
90	90	125	2970	93.1	93.7	93.5	0.83	0.89	0.90	162	81	3580	91.3	92.7	93.2	0.77	0.87	0.90	135	
110	110	150	2975	93.6	94.4	93.9	0.82	0.87	0.89	200	81	3580	91.8	93.1	93.5	0.75	0.85	0.88	168	
132	132	175	2975	93.8	94.2	94.1	0.83	0.88	0.90	237	81	3580	92.1	93.5	93.9	0.76	0.86	0.89	198	
150	150	200	2975	94.2	94.5	94.5	0.80	0.85	0.88	274	81	3575	93.9	94.6	94.6	0.76	0.85	0.88	226	
160	160	220	2975	94.2	94.5	94.4	0.83	0.89	0.91	283	81	3580	92.7	93.8	94.1	0.77	0.87	0.90	237	
185	185	250	2975	94.6	94.6	94.5	0.80	0.86	0.89	334	81	3580	93.1	94.1	94.4	0.73	0.84	0.88	280	
200	200	270	2980	94.5	94.7	94.6	0.83	0.89	0.91	353	84	3580	93.6	94.4	94.6	0.77	0.87	0.90	295	
220	190	258	2980	94.3	94.8	94.6	0.81	0.89	0.91	335	84	3580	93.4	94.4	94.6	0.76	0.86	0.90	280	
250	247	335	2970	94.1	94.7	94.7	0.84	0.90	0.92	431	84	3575	93.7	94.6	94.7	0.80	0.87	0.90	364	
260	260	350	2970	94.3	94.7	94.7	0.85	0.90	0.92	453	84	3575	93.9	94.7	94.7	0.81	0.88	0.90	383	
280	266	361	2975	94.4	94.9	94.8	0.84	0.90	0.90	474	84	3580	93.5	94.4	94.7	0.79	0.88	0.90	392	
300	300	400	2975	94.8	94.9	94.9	0.86	0.89	0.91	528	84	3575	94.3	95.1	95.1	0.79	0.86	0.89	445	
315	285	387	2975	94.6	95.0	94.9	0.84	0.90	0.91	501	84	3575	94.2	94.8	94.6	0.83	0.89	0.90	420	
355	355	480	2980	94.6	94.9	94.6	0.88	0.91	0.91	627	84	3585	93.5	94.3	94.5	0.83	0.90	0.92	512	

Notes:

(1) Motors do not comply with IE1 (60 Hz) efficiency values from IEC 60034-30-1 at 45°C.

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - Standard Efficiency - IE1 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*			Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/Tn	Inertia J (kgm ²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V							Full load current In (A)
														Rated speed (rpm)	% of full load						
															Efficiency			Power factor			
															50	75	100	50	75	100	
IV pole																					
0.12	0.12	0.16	63	0.85	3.5	1.8	2.0	0.0003	38	83	5.2	44	1350	46.0	53.0	55.0	0.51	0.64	0.75	0.42	
0.18	0.17	0.23	63	1.18	3.9	2.0	2.0	0.0006	16	35	6.2	44	1380	49.6	55.1	57.0	0.51	0.63	0.73	0.59	
0.25	0.24	0.32	71	1.66	3.8	1.9	2.0	0.0006	28	61	5.5	43	1380	51.3	58.1	61.5	0.48	0.61	0.71	0.82	
0.37	0.35	0.48	71	2.42	3.7	2.1	2.1	0.0007	28	61	7.0	43	1380	56.9	61.9	66.0	0.49	0.62	0.72	1.11	
0.55	0.55	0.75	80	3.71	4.9	2.0	2.4	0.0024	8	17	9.5	44	1415	65.0	70.0	71.0	0.57	0.72	0.81	1.38	
0.75	0.75	1	80	5.03	4.9	2.1	2.3	0.0030	7	15	10.5	44	1425	70.0	72.0	72.3	0.58	0.72	0.81	1.85	
1.1	1.1	1.5	90S	7.35	5.8	1.8	2.4	0.0052	7	15	14.5	49	1430	72.5	75.5	75.5	0.60	0.74	0.82	2.57	
1.5	1.4	1.9	90L	9.66	5.7	2.0	2.5	0.0066	8	17	17.0	49	1415	73.8	77.3	77.7	0.56	0.71	0.81	3.28	
2.2	2.1	2.8	100L	14.1	5.8	2.5	2.7	0.0090	9	19	23.0	53	1415	78.3	80.2	80.1	0.58	0.72	0.81	4.65	
3	3	4	100L	20.2	6.5	3.1	3.2	0.0082	8	18	30.0	53	1420	79.0	81.5	81.5	0.57	0.72	0.81	6.56	
4	3.8	5.2	112M	25.1	6.5	2.2	2.6	0.0180	9	19	33.0	56	1445	81.8	83.7	83.6	0.63	0.76	0.82	8.00	
5.5	5.5	7.5	132S	35.9	7.5	2.1	2.5	0.0453	7	15	47.0	60	1465	84.0	85.5	85.5	0.63	0.77	0.84	11.1	
7.5	7.1	9.7	132M	46.6	6.7	2.1	2.6	0.0601	8	17	64.5	60	1460	85.0	87.0	87.1	0.61	0.74	0.81	14.6	
9.2	8.7	11.9	160M	57.2	6.2	2.1	2.5	0.0767	9	19	93.0	61	1460	86.2	87.7	87.5	0.62	0.75	0.81	17.8	
11	10.5	14.3	160M	68.7	6.2	2.2	2.6	0.0906	9	19	96.0	61	1460	86.5	88.1	88.1	0.62	0.75	0.81	21.2	
15	14.3	19.4	160L	93.2	7.1	2.7	2.9	0.1325	8	17	121	61	1465	88.7	89.7	89.4	0.63	0.76	0.82	28.2	
18.5	17.6	23.9	180M	114	6.9	2.5	2.9	0.1398	12	26	152	61	1465	89.4	90.5	90.3	0.64	0.77	0.83	33.9	
22	20.9	28.4	180L	136	6.9	2.5	3.0	0.1653	10	21	164	61	1465	89.6	90.9	90.8	0.63	0.77	0.83	40.0	
30	28.5	38.8	200L	185	6.9	2.4	2.7	0.2802	13	28	212	65	1470	91.0	91.8	91.6	0.65	0.78	0.83	54.1	
37	37	50	225S/M	240	6.7	2.3	2.7	0.3944	10	22	342	66	1475	92.0	92.4	92.2	0.71	0.81	0.85	68.1	
45	45	60	225S/M	292	6.9	2.4	2.7	0.4684	10	22	363	66	1475	92.2	92.2	92.6	0.72	0.82	0.86	81.6	
55	55	75	250S/M	356	6.5	2.1	2.5	0.7731	12	26	431	66	1475	92.9	93.2	93.1	0.73	0.82	0.85	100	
75	75	100	280S/M	483	6.6	2.0	2.6	1.48	22	48	639	69	1485	93.0	93.5	93.5	0.73	0.81	0.85	136	
90	90	125	280S/M	579	6.8	2.1	2.7	1.79	20	44	673	69	1485	93.2	93.8	93.8	0.75	0.83	0.86	159	
110	110	150	315S/M	705	6.4	2.0	2.4	2.55	26	57	887	71	1490	93.6	94.3	94.1	0.75	0.83	0.86	196	
132	132	175	315S/M	846	6.9	2.3	2.4	3.11	22	48	953	71	1490	93.9	94.5	94.3	0.74	0.83	0.86	235	
150	150	200	315S/M	962	7.0	2.5	2.8	3.34	18	40	1012	71	1490	94.0	94.5	94.5	0.74	0.82	0.86	266	
160	160	220	315S/M	1026	7.3	2.4	2.5	3.54	18	40	1012	71	1490	94.1	94.6	94.5	0.73	0.82	0.86	284	
185	185	250	315S/M	1186	6.9	2.4	2.3	3.98	17	37	1071	71	1490	94.3	94.7	94.6	0.74	0.82	0.86	328	
200	200	270	315L	1283	6.9	2.4	2.3	4.41	16	35	1216	74	1490	94.4	94.8	94.7	0.76	0.84	0.85	359	
220	220	300	315L	1411	7.7	2.6	2.4	4.85	14	31	1330	74	1490	94.5	94.9	94.8	0.74	0.83	0.86	389	
250	250	340	315L	1603	7.8	2.7	2.5	5.40	12	26	1399	74	1490	94.6	94.9	94.8	0.75	0.83	0.86	443	
260	260	350	315L	1667	7.8	2.7	2.5	5.40	12	26	1399	74	1490	94.6	94.9	94.8	0.75	0.83	0.86	460	
280	280	380	315L	1796	7.9	2.7	2.5	6.16	12	26	1496	74	1490	94.6	95.0	94.9	0.74	0.82	0.86	495	
300	285	387	355M/L	1827	7.6	2.3	2.5	8.59	18	39	1560	76	1490	94.6	95.0	94.9	0.72	0.82	0.85	510	
315	299	406	355M/L	1917	7.6	2.5	2.5	8.94	14	30	1670	76	1490	94.5	95.0	94.9	0.71	0.82	0.86	529	
330	314	426	355M/L	2013	7.2	2.3	2.5	9.84	17	37	1769	76	1490	94.5	95.0	94.9	0.73	0.83	0.86	555	
355	337	457	355M/L	2161	7.3	2.5	2.4	10.73	15	32	1888	76	1490	94.6	94.9	94.9	0.73	0.83	0.86	596	
370	370	500	355M/L	2373	7.3	2.6	2.4	11.70	11	24	1971	76	1490	94.9	95.1	94.9	0.75	0.83	0.86	654	
400	380	516	355M/L	2436	7.7	2.7	2.5	11.70	11	24	1971	76	1490	94.7	95.0	95.0	0.72	0.82	0.86	671	

Note:
 * Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).
 ** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) \cdot 9555 / n (rpm)$.

W22 Marine Motors - Standard Efficiency - IE1 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	
kW	kW	HP																		
0.12	0.12	0.16	1330	49.6	55.0	55.1	0.56	0.69	0.79	0.42	48	1670	46.7	53.4	56,6 ⁽¹⁾	0.49	0.59	0.69	0.39	
0.18	0.17	0.23	1360	49.9	54.9	57.0	0.56	0.67	0.78	0.58	48	1705	50.9	57.1	58,6 ⁽¹⁾	0.46	0.56	0.65	0.56	
0.25	0.24	0.32	1350	55.4	59.8	61.5	0.53	0.67	0.76	0.81	48	1705	51.5	59.6	62,7 ⁽¹⁾	0.45	0.56	0.65	0.74	
0.37	0.35	0.48	1355	60.6	63.6	66.0	0.54	0.68	0.77	1.10	47	1700	57.3	63.4	65,7 ⁽¹⁾	0.46	0.58	0.67	1.00	
0.55	0.55	0.75	1400	68.0	71.3	70.9	0.63	0.78	0.85	1.39	47	1725	64.9	70.7	72,9 ⁽¹⁾	0.55	0.69	0.78	1.21	
0.75	0.75	1	1410	72.2	72.5	72.1	0.64	0.76	0.84	1.88	48	1735	69.6	73.7	74,6 ⁽¹⁾	0.56	0.69	0.79	1.60	
1.1	1.1	1.5	1415	73.0	75.5	75.5	0.66	0.79	0.85	2.60	51	1740	70.3	75.1	79.0	0.57	0.71	0.79	2.21	
1.5	1.4	1.9	1405	74.1	77.1	77.6	0.63	0.77	0.85	3.29	51	1725	73.2	78.5	81,0 ⁽¹⁾	0.55	0.68	0.76	2.92	
2.2	2.1	2.8	1405	78.9	80.3	80.0	0.65	0.78	0.84	4.73	51	1725	77.5	81.0	82,7 ⁽¹⁾	0.56	0.70	0.78	4.07	
3	3	4	1410	80.0	81.5	81.5	0.64	0.77	0.84	6.66	54	1730	77.7	80.6	81.5	0.56	0.69	0.78	5.92	
4	3.8	5.2	1435	82.1	83.5	83.2	0.68	0.81	0.85	8.16	54	1745	81.2	84.1	84,8 ⁽¹⁾	0.61	0.76	0.82	6.86	
5.5	5.5	7.5	1460	85.0	85.5	85.5	0.70	0.81	0.86	11.4	56	1770	84.2	86.3	87.0	0.63	0.76	0.83	9.58	
7.5	7.1	9.7	1455	85.8	87.1	86.9	0.68	0.80	0.84	14.8	58	1765	84.0	86.8	87.6	0.61	0.73	0.80	12.8	
9.2	8.7	11.9	1455	87.0	87.8	87.2	0.67	0.79	0.83	18.3	58	1765	85.6	87.8	88.3	0.59	0.73	0.80	15.5	
11	10.5	14.3	1455	87.5	88.3	87.8	0.67	0.79	0.84	21.6	58	1765	86.1	88.3	88.9	0.60	0.74	0.80	18.5	
15	14.3	19.4	1460	89.3	89.8	89.1	0.68	0.79	0.84	29.0	64	1770	88.4	90.0	90.2	0.61	0.74	0.81	24.6	
18.5	17.6	23.9	1460	90.2	90.7	90.2	0.70	0.82	0.86	34.5	64	1770	89.2	90.7	90.9	0.63	0.76	0.82	29.6	
22	20.9	28.4	1460	90.5	91.1	90.7	0.69	0.81	0.86	40.7	64	1770	89.4	91.1	91.4	0.62	0.76	0.82	35.0	
30	28.5	38.8	1465	91.5	91.8	91.3	0.70	0.81	0.85	55.8	66	1770	90.6	91.8	92.0	0.63	0.76	0.82	47.4	
37	37	50	1470	92.3	92.4	91.9	0.76	0.84	0.86	71.1	66	1775	91.1	92.4	92.5	0.69	0.81	0.85	59.1	
45	45	60	1470	92.5	92.2	92.3	0.76	0.85	0.87	85.1	67	1775	91.1	92.3	93.0	0.69	0.81	0.86	70.9	
55	55	75	1470	93.1	93.1	92.7	0.77	0.84	0.86	105	67	1775	92.1	93.2	93.3	0.70	0.81	0.85	87.0	
75	75	100	1480	93.3	93.5	93.3	0.77	0.83	0.86	142	68	1785	91.8	93.0	93.3	0.68	0.78	0.83	122	
90	90	125	1480	93.6	93.9	93.6	0.79	0.85	0.88	166	73	1785	92.1	93.4	93.6	0.72	0.83	0.86	139	
110	110	150	1490	93.8	94.3	93.9	0.79	0.85	0.87	205	73	1790	92.5	93.5	93.8	0.72	0.83	0.86	171	
132	132	175	1490	94.2	94.5	94.2	0.78	0.85	0.87	245	75	1790	92.8	93.9	94.1	0.71	0.82	0.86	205	
150	150	200	1490	94.5	94.6	94.6	0.78	0.85	0.88	274	75	1790	93.3	94.4	94.6	0.71	0.82	0.86	231	
160	160	220	1490	94.4	94.7	94.4	0.77	0.84	0.87	296	75	1790	93.2	94.1	94.3	0.71	0.82	0.86	248	
185	185	250	1490	94.5	94.7	94.4	0.78	0.84	0.87	342	75	1790	93.5	94.4	94.5	0.70	0.82	0.86	286	
200	200	270	1490	94.6	94.8	94.5	0.79	0.86	0.88	365	78	1790	93.8	94.7	94.8	0.73	0.84	0.87	304	
220	220	300	1490	94.7	94.9	94.7	0.78	0.85	0.87	406	78	1790	93.9	94.6	94.8	0.71	0.82	0.86	339	
250	250	340	1490	95.4	94.9	94.7	0.79	0.85	0.87	461	78	1790	94.0	95.0	95.1	0.72	0.82	0.86	384	
260	260	350	1490	95.4	94.9	94.7	0.79	0.85	0.87	479	78	1790	94.0	95.0	95.1	0.72	0.82	0.86	399	
280	280	380	1490	95.6	95.0	94.8	0.77	0.84	0.87	516	78	1790	94.6	95.1	95.0	0.70	0.82	0.86	430	
300	285	387	1490	94.6	94.9	94.8	0.75	0.85	0.87	525	78	1790	94.2	94.8	95.0	0.70	0.81	0.85	443	
315	299	406	1490	94.6	95.0	94.9	0.75	0.84	0.87	550	78	1790	94.1	94.8	95.0	0.68	0.80	0.85	465	
330	314	426	1485	94.5	94.9	94.9	0.71	0.80	0.84	598	78	1790	94.0	94.7	94.9	0.68	0.80	0.85	489	
355	337	457	1490	94.6	94.9	94.8	0.76	0.85	0.87	621	78	1790	94.2	94.8	95.0	0.69	0.81	0.86	518	
370	370	500	1490	94.5	94.7	94.8	0.78	0.85	0.87	682	78	1790	94.1	94.8	95.0	0.72	0.82	0.86	568	
400	380	516	1490	94.6	94.9	94.8	0.75	0.84	0.87	700	78	1790	94.2	94.8	95.0	0.68	0.80	0.85	591	

Notes:

(1) Motors do not comply with IE1 (60 Hz) efficiency values from IEC 60034-30-1 at 45°C.

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - Standard Efficiency - IE1 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*		Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/Tn	Inertia J (kgm ²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V							
									Hot	Cold			Rated speed (rpm)	% of full load			Full load current In (A)			
														Efficiency				Power factor		
kW	kW	HP											50	75	100	50	75	100		
VI pole																				
0.12	0.11	0.15	63	1.22	2.6	1.8	1.7	0.0007	46	100	6.7	43	865	41.9	46.9	48.0	0.43	0.53	0.64	0.52
0.18	0.18	0.25	71	1.91	3.1	2.2	2.2	0.0009	30	65	9.0	43	900	46.0	53.0	55.0	0.38	0.49	0.58	0.81
0.25	0.25	0.33	71	2.67	3.1	2.2	2.2	0.0008	30	65	11.5	43	895	48.0	55.0	57.0	0.38	0.48	0.58	1.09
0.37	0.35	0.48	80	3.68	3.7	1.8	1.8	0.0019	16	35	12.1	43	910	53.4	60.0	62.6	0.49	0.62	0.73	1.11
0.55	0.52	0.7	80	5.31	4.6	2.4	2.4	0.0030	10	21	15.5	43	935	58.7	64.8	66.8	0.49	0.61	0.71	1.58
0.75	0.75	1	90S	7.79	4.2	1.8	2.1	0.0044	17	37	18.0	45	920	68.0	70.0	70.0	0.51	0.65	0.75	2.06
1.1	1.05	1.42	90L	10.7	4.9	2.1	2.2	0.0060	9	19	22.0	45	930	69.0	72.2	72.9	0.46	0.58	0.70	2.97
1.5	1.5	2	100L	15.6	4.4	1.9	2.2	0.0093	21	46	27.0	44	920	76.0	77.0	76.0	0.52	0.66	0.73	3.90
2.2	2.2	3	112M	22.4	5.1	2.3	2.5	0.0165	17	37	37.0	48	940	78.0	78.5	78.0	0.53	0.66	0.74	5.50
3	2.9	3.9	132S	28.5	5.5	2.1	2.3	0.0340	20	43	55.0	53	955	80.6	82.1	81.3	0.56	0.69	0.76	6.66
4	3.8	5.2	132M	37.8	6.0	2.4	2.5	0.0435	19	41	59.0	53	960	80.5	82.5	82.6	0.52	0.65	0.73	9.10
5.5	5.2	7.1	132M	52.0	6.4	2.4	3.0	0.0606	19	41	72.0	52	960	82.1	84.3	84.6	0.49	0.62	0.71	12.6
7.5	7.1	9.7	160M	70.6	5.6	2.0	2.4	0.0966	12	26	103	56	965	84.6	85.9	85.4	0.62	0.75	0.82	14.7
9.2	8.74	11.8	160L	86.5	5.9	2.1	2.5	0.1229	10	21	113	56	965	85.5	86.7	86.2	0.63	0.76	0.82	17.8
11	10.5	14.3	160L	103	6.0	2.2	2.5	0.1489	11	24	127	56	965	86.6	87.6	87.3	0.63	0.76	0.82	21.2
15	14.3	19.4	180L	140	7.1	2.4	2.8	0.2299	6	13	166	56	970	87.6	88.6	88.3	0.70	0.82	0.86	27.2
18.5	17.6	23.9	200L	172	5.9	2.2	2.5	0.2989	12	26	190	60	975	88.1	89.2	89.0	0.62	0.75	0.81	35.2
22	20.9	28.4	200L	204	6.3	2.3	2.5	0.3692	13	28	218	60	975	89.1	90.1	89.8	0.64	0.77	0.82	41.0
30	30	40	225S/M	293	6.8	2.1	2.7	0.7192	12	26	359	63	980	91.0	91.5	91.2	0.74	0.83	0.86	55.2
37	35.2	47.8	250S/M	341	7.1	2.2	2.5	1.01	14	30	425	64	985	91.4	92.0	91.8	0.72	0.83	0.86	64.4
45	45	60	280S/M	437	6.0	1.9	2.3	1.80	18	40	576	65	985	92.0	92.5	92.2	0.69	0.79	0.83	84.9
55	55	75	280S/M	534	6.0	2.2	2.5	2.13	20	44	607	65	985	92.7	92.7	92.6	0.64	0.75	0.81	106
75	71.3	96.8	315S/M	688	6.7	2.1	2.5	3.81	22	48	837	67	990	92.7	93.3	93.1	0.66	0.78	0.82	135
90	90	125	315S/M	869	6.2	2.0	2.2	4.36	18	40	883	67	990	93.4	93.6	93.4	0.70	0.80	0.83	168
110	110	150	315S/M	1062	6.2	2.0	2.2	5.07	20	44	941	67	990	93.7	94.0	93.8	0.70	0.80	0.83	204
132	132	175	315S/M	1274	6.2	2.1	2.2	6.00	18	40	1012	67	990	94.0	94.2	94.1	0.73	0.82	0.85	238
150	143	194	315L	1380	6.8	2.2	2.7	6.50	23	50	1100	68	990	93.7	94.5	94.4	0.63	0.75	0.80	273
160	160	220	315L	1544	6.5	2.2	2.3	7.22	14	31	1203	68	990	94.1	94.4	94.4	0.69	0.79	0.83	295
185	185	250	315L	1786	7.1	2.3	2.4	8.86	12	26	1346	68	990	94.2	94.5	94.6	0.70	0.79	0.83	340
200	200	270	315L	1930	7.3	2.4	2.5	10.10	12	26	1488	68	990	94.3	94.6	94.6	0.70	0.80	0.83	368
220	220	300	315L	2123	6.8	2.3	2.3	11.00	15	33	1563	68	990	94.4	94.7	94.7	0.70	0.80	0.83	404
250	250	340	355M/L	2413	6.0	2.1	2.1	12.00	32	70	1752	73	990	94.4	94.7	94.7	0.65	0.75	0.80	476
260	260	350	355M/L	2509	6.0	2.0	2.0	12.00	32	70	1752	73	990	94.4	94.7	94.7	0.65	0.75	0.80	495
280	280	380	355M/L	2702	6.2	2.1	2.1	13.20	28	62	1839	73	990	94.5	94.8	94.8	0.64	0.75	0.80	533
300	300	400	355M/L	2895	6.2	2.2	2.2	14.30	30	66	1900	73	990	94.4	94.7	94.6	0.63	0.74	0.79	579
315	285	387	355M/L	2750	6.4	2.3	2.3	14.30	30	65	1900	73	990	94.2	94.7	94.6	0.61	0.73	0.78	557

Note:

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) * 9555 / n (rpm)$.

W22 Marine Motors - Standard Efficiency - IE1 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	
kW	kW	HP																		
0.12	0.11	0.15	855	47.5	51.0	50.5	0.46	0.57	0.69	0.48	47	1080	44.4	51.1	52.9	0.38	0.46	0.57	0.46	
0.18	0.18	0.25	885	49.3	55.1	55.9	0.41	0.52	0.62	0.79	47	1115	46.9	53.6	57.0	0.35	0.44	0.52	0.76	
0.25	0.25	0.33	880	51.8	57.3	57.6	0.41	0.53	0.63	1.05	47	1110	49.9	56.3	59.4	0.36	0.44	0.53	1.00	
0.37	0.35	0.48	895	55.7	61.8	64.6	0.53	0.66	0.78	1.06	47	1120	52.0	59.2	62.7	0.46	0.57	0.67	1.05	
0.55	0.52	0.7	925	60.6	65.9	67.7	0.53	0.65	0.75	1.56	47	1145	57.7	64.4	66.9	0.46	0.57	0.66	1.48	
0.75	0.75	1	905	70.1	70.6	70.0	0.56	0.70	0.78	2.09	49	1130	68.3	72.0	73.0	0.49	0.61	0.70	1.85	
1.1	1.05	1.42	920	70.1	73.9	75.8	0.52	0.64	0.75	2.81	48	1140	69.8	74.2	76.4	0.44	0.55	0.65	2.65	
1.5	1.5	2	910	77.6	77.2	75.2	0.57	0.70	0.76	3.99	52	1130	76.8	79.0	78.8	0.51	0.63	0.70	3.41	
2.2	2.2	3	930	79.8	78.9	77.7	0.58	0.71	0.78	5.52	52	1145	78.4	80.5	80.4	0.51	0.64	0.72	4.77	
3	2.9	3.9	950	81.0	82.6	82.3	0.59	0.71	0.78	6.75	55	1160	78.4	81.7	82.8	0.51	0.63	0.72	6.00	
4	3.8	5.2	960	81.4	82.7	82.6	0.58	0.70	0.77	9.08	55	1165	81.3	83.8	84.6	0.50	0.63	0.71	7.94	
5.5	5.2	7.1	955	83.6	85.0	84.6	0.54	0.67	0.75	12.5	55	1165	81.9	84.8	85.7	0.47	0.60	0.69	11.1	
7.5	7.1	9.7	960	85.6	86.0	84.9	0.67	0.79	0.84	15.2	55	1170	84.5	86.6	86.9	0.59	0.73	0.80	12.9	
9.2	8.74	11.8	960	86.3	86.9	86.0	0.68	0.80	0.84	18.4	59	1170	85.4	87.4	87.6	0.60	0.73	0.80	15.7	
11	10.5	14.3	960	87.3	87.7	86.8	0.67	0.79	0.84	21.9	59	1170	86.2	88.3	88.9 ⁽¹⁾	0.61	0.73	0.80	18.5	
15	14.3	19.4	970	88.2	88.6	87.9	0.74	0.85	0.89	27.8	59	1175	87.3	89.0	89.5	0.67	0.80	0.85	23.6	
18.5	17.6	23.9	970	89.2	89.6	88.9	0.68	0.80	0.84	35.8	59	1175	88.0	89.8	90.2	0.60	0.74	0.80	30.6	
22	20.9	28.4	970	90.0	90.4	89.6	0.70	0.81	0.85	41.7	62	1175	88.9	90.6	91.0	0.63	0.76	0.82	35.2	
30	30	40	975	91.2	91.3	90.7	0.78	0.85	0.87	57.8	62	1180	90.4	91.3	91.7	0.71	0.82	0.86	48.0	
37	35.2	47.8	980	91.6	91.9	91.3	0.75	0.85	0.87	67.3	66	1185	91.0	92.0	92.1	0.70	0.81	0.86	55.8	
45	45	60	980	92.3	92.5	91.9	0.74	0.82	0.85	87.5	68	1185	91.2	92.3	92.4	0.67	0.79	0.83	73.6	
55	55	75	980	93.0	92.7	92.3	0.69	0.78	0.83	109	68	1185	91.7	92.8	92.9	0.62	0.74	0.80	92.9	
75	71.3	96.8	990	93.3	93.5	93.0	0.70	0.81	0.85	137	69	1190	92.0	93.0	93.2	0.63	0.75	0.81	119	
90	90	125	990	93.7	93.6	93.1	0.74	0.83	0.84	175	69	1185	92.7	93.5	93.5	0.68	0.79	0.84	144	
110	110	150	989	93.6	93.7	93.7	0.74	0.83	0.84	212	70	1190	93.1	93.9	94.1	0.67	0.79	0.83	177	
132	132	175	985	94.3	94.2	93.9	0.78	0.85	0.87	245	70	1190	93.4	94.2	94.3	0.71	0.82	0.86	204	
150	143	194	990	93.7	94.3	94.2	0.67	0.78	0.83	278	70	1195	93.5	94.5	94.5	0.61	0.74	0.79	240	
160	160	220	985	94.3	94.4	94.2	0.73	0.81	0.84	307	70	1190	93.5	94.4	94.5	0.66	0.78	0.83	256	
185	185	250	990	94.4	94.5	94.4	0.74	0.81	0.84	354	77	1190	93.7	94.5	94.7	0.66	0.78	0.83	295	
200	200	270	990	94.5	94.6	94.4	0.74	0.82	0.84	383	77	1190	93.7	94.6	94.7	0.67	0.79	0.83	319	
220	220	300	990	94.6	94.7	94.5	0.74	0.82	0.84	421	77	1190	93.8	94.6	94.8	0.67	0.79	0.83	351	
250	250	340	990	94.6	94.7	94.6	0.69	0.78	0.82	490	77	1190	93.8	94.5	94.7	0.62	0.74	0.80	414	
260	260	350	990	94.6	94.7	94.6	0.69	0.78	0.82	509	77	1190	93.8	94.5	94.7	0.62	0.74	0.80	431	
280	280	380	990	94.7	94.8	94.7	0.68	0.78	0.82	548	77	1190	94.0	94.8	94.9	0.61	0.74	0.80	463	
300	300	400	990	94.7	94.7	94.5	0.65	0.75	0.80	603	77	1190	93.9	94.6	94.7	0.57	0.70	0.77	516	
315	285	387	990	94.5	94.8	94.6	0.63	0.74	0.79	579	77	1190	93.7	94.5	94.7	0.55	0.68	0.76	497	

Notes:

(1) Motors do not comply with IE1 (60 Hz) efficiency values from IEC 60034-30-1 at 45°C.

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - Standard Efficiency - IE1 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*		Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque TI/Tn	Breakdown torque Tb/Tn	Inertia J (kgm ²)	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			
														50	75	100	50	75	100	
VIII pole																				
0.12	0.12	0.16	71	1.74	2.2	2.1	2.0	0.0008	84	183	10.7	41	660	36.3	43.4	45.6	0.37	0.45	0.53	0.72
0.18	0.18	0.25	80	2.47	2.8	2.2	2.4	0.0020	29	63	12.6	42	695	36.2	44.1	48.6	0.45	0.53	0.62	0.86
0.25	0.25	0.33	80	3.49	3.8	2.1	2.2	0.0027	32	59	13.0	42	685	46.0	51.0	53.0	0.45	0.56	0.66	1.03
0.37	0.37	0.5	90S	5.16	3.0	1.9	1.8	0.0038	27	70	15.4	43	685	50.6	56.5	57.4	0.44	0.55	0.64	1.45
0.55	0.55	0.75	90L	7.79	3.3	1.9	2.0	0.0058	25	54	16.5	43	675	58.0	60.0	60.0	0.43	0.56	0.66	2.01
0.75	0.75	1	100L	10.1	3.5	1.8	2.4	0.0077	33	72	23.8	50	705	62.0	67.2	67.8	0.42	0.53	0.62	2.58
1.1	1.1	1.5	100L	15.0	4.0	1.7	2.3	0.0116	27	59	28.5	50	700	69.3	72.3	71.2	0.45	0.57	0.66	3.38
1.5	1.5	2	112M	20.4	4.2	2.2	2.2	0.0174	26	56	33.4	46	700	73.7	75.4	73.5	0.48	0.61	0.70	4.21
2.2	2.2	3	132S	29.6	6.1	2.5	2.8	0.0592	22	48	55.3	48	710	75.8	78.0	77.1	0.55	0.68	0.77	5.35
3	2.8	3.8	132M	38.3	6.4	2.3	2.7	0.0715	18	39	65.0	48	710	78.4	79.9	79.3	0.53	0.67	0.75	6.92
4	3.8	5.2	160M	50.4	4.9	2.1	2.2	0.0878	17	37	101	51	720	79.1	81.7	81.7	0.50	0.64	0.71	9.46
5.5	5.2	7.1	160M	69.4	4.9	2.1	2.2	0.1141	16	35	110	51	720	81.3	83.3	83.1	0.50	0.64	0.72	12.6
7.5	7.1	9.7	160L	94.6	5.1	2.3	2.3	0.1492	16	35	130	51	720	83.7	85.4	85.2	0.50	0.63	0.72	16.8
9.2	8.7	11.8	180M	115	6.6	2.1	2.5	0.2037	10	21	156	51	725	85.6	86.6	86.2	0.62	0.75	0.81	18.1
11	10.5	14.3	180L	138	6.7	2.2	2.5	0.2444	10	21	175	51	725	86.6	87.6	87.2	0.65	0.77	0.83	20.9
15	14.3	19.4	200L	188	4.8	2.0	2.1	0.3341	22	48	205	53	725	86.9	88.2	88.1	0.56	0.69	0.75	31.2
18.5	18.5	25	225S/M	241	6.4	1.8	2.4	0.6183	18	40	339	56.0	735	87.4	87.9	88.4	0.66	0.77	0.82	36.8
22	22	30	225S/M	286	6.4	1.8	2.4	0.7214	16	35	358	56.0	735	87.9	88.4	88.9	0.69	0.79	0.83	43.0
30	30	40	250S/M	390	6.9	1.9	2.4	1.06	13	29	433	56.0	735	88.7	89.2	89.7	0.67	0.78	0.83	58.2
37	37	50	280S/M	478	5.0	1.6	2.0	1.81	26	57	575	59.0	740	89.1	89.6	90.1	0.64	0.75	0.79	75.0
45	45	60	280S/M	581	5.4	1.7	2.0	2.26	21	46	617	59.0	740	89.5	90.0	90.5	0.64	0.75	0.79	90.8
55	52	71	315S/M	675	5.6	1.6	2.1	3.66	30	65	745	62	740	92.3	93.1	93.0	0.63	0.75	0.80	101
75	75	100	315S/M	968	5.3	1.6	2.0	4.76	30	66	913	62.0	740	90.0	90.5	91.0	0.66	0.76	0.80	149
90	90	125	315S/M	1162	5.8	1.8	2.1	5.67	26	57	982	62.0	740	90.7	91.2	91.7	0.66	0.76	0.80	177
110	110	150	315L	1420	5.8	1.8	2.1	6.93	24	53	1180	68.0	740	91.1	91.6	92.1	0.64	0.75	0.80	215
132	132	175	315L	1704	6.2	2.0	2.2	8.75	23	51	1290	68.0	740	91.4	91.9	92.4	0.63	0.74	0.79	261
150	150	200	355M/L	1924	7.0	1.5	2.0	13.80	35	77	1571	70.0	745	91.8	92.3	92.8	0.64	0.75	0.80	308
160	160	220	355M/L	2052	6.2	1.4	2.2	13.80	48	106	1571	70.0	745	91.8	92.3	92.8	0.62	0.74	0.79	315
185	185	250	355M/L	2373	6.0	1.4	2.1	15.90	46	101	1653	70.0	745	92.3	92.8	93.3	0.64	0.75	0.80	358
200	200	270	355M/L	2565	6.2	1.5	2.2	18.40	44	97	1725	70.0	745	92.3	92.8	93.3	0.63	0.74	0.79	392
220	220	300	355M/L	2822	6.3	1.4	2.1	19.90	42	92	1839	70.0	745	92.3	92.8	93.3	0.64	0.75	0.80	425

Note:
 * Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).
 ** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula C(Nm) = Power (kW)*9555 / n (rpm).



W22 Marine Motors - Standard Efficiency - IE1 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*			380 V							460 V (60Hz)									
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	
kW	kW	HP																		

VIII pole

0.12	0.1	0.2	650	41.0	47.1	47.6	0.39	0.48	0.57	0.67	45	820	39.5	46.8	49.9	0.34	0.40	0.47	0.64
0.18	0.2	0.3	690	40.7	47.7	50.6	0.47	0.57	0.66	0.82	46	855	37.9	45.9	50.6	0.40	0.48	0.55	0.81
0.25	0.3	0.3	675	48.8	52.8	53.4	0.48	0.60	0.70	1.02	46	845	46.7	53.0	55.5	0.41	0.51	0.60	0.94
0.37	0.4	0.5	680	54.4	59.0	58.3	0.48	0.60	0.69	1.40	47	845	53.0	59.1	61.1	0.40	0.50	0.59	1.30
0.55	0.6	0.8	665	61.7	62.0	60.0	0.47	0.60	0.70	1.99	47	830	60.8	65.1	64.5	0.40	0.51	0.61	1.80
0.75	0.8	1	695	65.6	69.0	68.0	0.46	0.58	0.66	2.54	47	855	64.6	69.6	71.0	0.40	0.50	0.59	2.20
1.1	1.1	1.5	690	72.1	73.6	70.8	0.50	0.62	0.70	3.37	54	860	71.9	75.0	74.8	0.43	0.55	0.63	2.90
1.5	1.5	2	690	75.9	76.2	73.2	0.52	0.65	0.73	4.27	54	855	76.1	78.4	77.5	0.45	0.58	0.66	3.70
2.2	2.2	3	705	77.1	78.3	76.7	0.60	0.73	0.80	5.45	52	865	76.9	79.3	79.4	0.52	0.66	0.74	4.70
3	2.8	3.8	705	79.7	80.3	79.1	0.58	0.72	0.79	6.93	52	865	79.5	81.6	81.6	0.51	0.65	0.74	5.90
4	3.8	5.2	715	81.1	82.5	81.6	0.55	0.68	0.74	9.56	52	870	79.7	83.1	83.8	0.47	0.61	0.70	8.10
5.5	5.2	7.1	715	82.8	83.8	82.8	0.55	0.68	0.75	12.8	54	875	81.7	84.5	85.0	0.48	0.61	0.69	11.2
7.5	7.1	9.7	715	85.0	85.8	84.9	0.55	0.68	0.75	17.0	54	875	84.1	86.4	86.9	0.49	0.61	0.69	14.9
9.2	8.7	11.8	720	86.5	86.8	85.7	0.67	0.79	0.84	18.4	54	875	85.6	87.3	87.5	0.59	0.73	0.80	15.7
11	10.5	14.3	720	87.3	87.6	86.6	0.69	0.81	0.85	21.7	54	875	86.5	88.1	88.3	0.62	0.75	0.82	18.2
15	14.3	19.4	720	88.0	88.5	87.7	0.62	0.73	0.78	31.8	54	875	87.0	89.0	89.3	0.55	0.68	0.74	27.2
18.5	18.5	25	730	86.9	87.4	87.9	0.70	0.80	0.84	38.1	56	885	87.5	88.0	88.5	0.62	0.76	0.82	32.0
22	22	30	730	87.7	88.2	88.7	0.73	0.82	0.84	44.9	60	885	89.2	89.7	90.2	0.66	0.78	0.82	37.3
30	30	40	730	88.5	89.0	89.5	0.72	0.81	0.85	59.9	60	885	89.2	89.7	90.2	0.64	0.77	0.83	50.3
37	37	50	735	88.6	89.1	89.6	0.69	0.78	0.81	77.5	60	890	90.0	90.5	91.0	0.62	0.74	0.79	64.6
45	45	60	735	89.3	89.8	90.3	0.69	0.78	0.81	93.5	60	890	90.0	90.5	91.0	0.61	0.74	0.79	78.6
55	52	71	740	92.8	93.2	92.9	0.68	0.78	0.81	106	63	890	91.7	92.9	93.3	0.60	0.73	0.79	89.1
75	75	100	735	89.8	90.3	90.8	0.70	0.79	0.81	155	63	890	91.0	91.5	92.0	0.64	0.75	0.80	128
90	90	125	740	90.5	91.0	91.5	0.70	0.79	0.81	184	66	890	91.5	92.0	92.5	0.64	0.75	0.80	153
110	110	150	740	90.6	91.1	91.6	0.69	0.78	0.82	223	66	890	91.5	92.0	92.5	0.61	0.74	0.80	187
132	132	175	740	91.2	91.7	92.2	0.68	0.77	0.81	269	75	890	91.5	92.0	92.5	0.60	0.73	0.79	227
150	150	200	745	95.3	95.3	95.1	0.69	0.79	0.83	289	75	895	94.6	95.2	95.3	0.62	0.75	0.80	247
160	160	220	745	91.6	92.1	92.6	0.67	0.78	0.81	324	75	895	91.5	92.0	92.5	0.59	0.73	0.79	275
185	185	250	745	92.1	92.6	93.1	0.69	0.78	0.82	368	75	895	91.5	92.0	92.5	0.62	0.74	0.80	314
200	200	270	745	92.1	92.6	93.1	0.68	0.78	0.81	403	75	895	91.5	92.0	92.5	0.61	0.73	0.79	344
220	220	300	745	92.1	92.6	93.1	0.69	0.78	0.82	438	75	895	91.5	92.0	92.5	0.62	0.74	0.80	373

Note:

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - High Efficiency - IE2 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*		Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque Tl/Tn	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)
									Rated speed (rpm)	% of full load										
										Efficiency			Power factor							
										50			75	100	50	75	100			
II pole																				
0.12	0.12	0.16	63	0.41	4.8	3.0	2.9	0.0001	37	81	5.7	52	2790	53.0	60.0	61.0	0.53	0.66	0.75	0.38
0.18	0.18	0.25	63	0.62	5.3	2.3	2.4	0.0001	15	33	6.2	52	2790	57.0	62.0	64.0	0.57	0.70	0.79	0.51
0.25	0.25	0.33	63	0.86	5.0	2.2	2.2	0.0002	11	24	6.7	52	2770	58.0	63.0	65.0	0.57	0.70	0.80	0.69
0.37	0.37	0.5	71	1.25	5.8	2.5	2.6	0.0004	12	26	8.3	56	2830	68.0	70.0	71.0	0.60	0.75	0.84	0.90
0.55	0.55	0.75	71	1.89	5.8	2.4	2.4	0.0005	9	20	10.0	56	2780	70.0	72.0	74.1	0.68	0.82	0.88	1.25
0.75	0.75	1	80	2.56	6.5	2.8	2.8	0.0008	14	31	12.5	59	2800	76.0	78.5	79.5	0.67	0.80	0.86	1.58
1.1	1.1	1.5	80	3.75	6.5	2.8	2.8	0.0009	10	22	14.0	59	2800	78.0	80.0	80.0	0.67	0.79	0.85	2.33
1.5	1.5	2	90S	5.00	7.0	2.6	2.8	0.0021	7	15	17.5	62	2865	80.0	82.0	82.0	0.63	0.76	0.83	3.14
3	3	4	100L	9.90	8.0	2.4	2.8	0.0064	7	15	28.5	67	2880	84.0	85.0	85.0	0.70	0.81	0.86	5.92
4	3.8	5.2	112M	12.6	7.3	2.1	3.0	0.0088	10	22	38.0	64	2885	85.2	86.4	86.1	0.71	0.83	0.87	7.32
5.5	5.5	7.5	132S	18.1	6.8	2.2	3.0	0.0197	17	37	60.0	67	2910	86.5	88.0	88.0	0.68	0.79	0.85	10.6
7.5	7.13	9.7	132S	23.4	7.1	2.3	3.1	0.0251	13	28	63.0	68	2915	87.5	88.7	88.6	0.70	0.82	0.86	13.5
9.2	8.7	11.8	132M	28.6	7.9	2.6	3.4	0.0234	10	22	70.0	68	2920	88.0	89.2	89.1	0.68	0.80	0.85	16.6
11	11	15	160M	35.8	7.0	2.3	3.0	0.0446	13	29	104	67	2935	90.0	90.6	90.5	0.71	0.82	0.86	20.4
15	14.3	19.4	160M	46.6	7.3	2.4	3.2	0.0517	9	20	112	67	2935	90.5	91.5	91.3	0.69	0.81	0.85	26.5
18.5	17.6	23.9	160L	57.1	7.7	2.5	3.3	0.0625	8	17	124	67	2945	91.1	92.0	92.0	0.68	0.79	0.85	32.4
22	20.9	28.4	180M	67.8	7.7	2.3	3.2	0.0975	9	20	164	67	2945	91.7	92.5	92.3	0.74	0.84	0.88	37.1
30	30	40	200L	97.0	6.5	2.4	2.7	0.1703	17	37	226	72	2955	92.5	93.0	92.9	0.75	0.83	0.87	53.6
37	35.2	47.8	200L	114	7.2	2.5	2.7	0.1950	16	35	255	72	2950	92.7	93.5	93.4	0.74	0.84	0.87	62.4
45	42.8	58	225S/M	138	7.4	2.3	3.0	0.2490	12	26	356	75	2960	93.0	93.7	93.6	0.76	0.86	0.89	74.0
55	55	75	250S/M	178	7.0	2.2	2.8	0.3736	14	31	413	75	2960	93.6	93.9	93.9	0.79	0.86	0.89	95.0
75	75	100	280S/M	241	7.0	2.0	2.8	0.8541	28	62	630	77	2975	93.4	94.3	94.3	0.79	0.86	0.89	129
90	90	125	280S/M	289	7.0	2.0	2.8	0.9386	25	55	653	77	2975	94.0	94.6	94.6	0.79	0.86	0.89	154
110	110	150	315S/M	353	7.3	2.0	2.9	1.67	24	53	874	77	2980	94.3	94.9	94.9	0.79	0.86	0.89	188
132	132	175	315S/M	423	7.3	2.0	2.9	1.96	21	46	931	77	2980	94.5	95.1	95.1	0.80	0.87	0.90	223
132	132	180	315S/M	423	7.3	2.0	2.9	1.96	21	46	931	77	2980	94.5	95.1	95.1	0.80	0.87	0.90	223
150	143	194	315S/M	458	7.8	2.3	3.0	1.95	23	50	940	77	2980	94.1	94.8	94.8	0.76	0.85	0.88	246
160	160	220	315S/M	513	7.5	2.2	2.9	2.24	23	51	995	77	2980	94.8	95.3	95.3	0.80	0.87	0.90	269
185	185	250	315S/M	593	7.6	2.2	3.1	2.46	16	35	1032	77	2980	94.9	95.5	95.4	0.80	0.86	0.89	314
200	200	270	315L	641	7.5	2.3	2.8	2.68	21	46	1200	78	2980	95.0	95.5	95.4	0.82	0.88	0.90	336
220	209	284	315L	670	8.2	2.5	3.0	2.97	14	30	1228	78	2980	94.9	95.5	95.5	0.78	0.87	0.90	350
250	238	323	315L	763	8.2	2.5	3.0	3.42	17	37	1316	78	2980	95.0	95.5	95.5	0.82	0.90	0.91	394
280	266	361	315L	852	8.3	2.4	3.0	4.16	12	26	1442	78	2980	95.1	95.6	95.6	0.82	0.90	0.91	441
300	285	387	315L	913	7.9	2.6	2.6	4.16	18	39	1442	86	2980	95.1	95.6	95.6	0.82	0.89	0.90	478
315	299	406	355M/L ⁽⁵⁾	957	8.2	2.2	2.7	5.60	23	50	1777	80	2985	95.0	95.6	95.6	0.85	0.91	0.92	491
330	314	426	355M/L	1005	7.4	2.5	2.5	6.03	20	43	1838	80	2985	95.2	95.6	95.6	0.86	0.91	0.90	525
355	337	457	355M/L ⁽⁵⁾	1079	8.3	2.3	3.0	6.00	14	30	1838	80	2985	95.1	95.6	95.6	0.85	0.91	0.91	559
370	370	500	355A/B ⁽⁵⁾	1184	7.9	2.5	2.8	6.76	40	88	2046	83	2985	95.8	96.1	96.4	0.85	0.89	0.90	616
400	400	550	355A/B ⁽⁵⁾	1280	7.6	2.4	2.8	6.76	31	68	2043	83	2985	95.8	96.2	96.4	0.85	0.89	0.91	658
450	450	610	355A/B ⁽⁵⁾	1440	7.5	2.5	2.7	7.40	31	68	2160	83	2985	95.8	96.2	96.6	0.85	0.90	0.91	739

Notes:

(5) Fitted with air deflector in the drive end side.

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) * 9555 / n (rpm)$.

W22 Marine Motors - High Efficiency - IE2 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*			380 V							460 V (60Hz)									
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	
kW	kW	HP																		
II pole																				
0.12	0.12	0.16	2765	54.7	60.8	60.9	0.57	0.71	0.79	0.38	56	3415	50.5	57.5	59.5	0.51	0.63	0.72	0.35	
0.18	0.18	0.25	2760	58.0	63.0	64.0	0.61	0.75	0.83	0.51	56	3435	55.9	59.4	65.0	0.55	0.65	0.74	0.46	
0.25	0.25	0.33	2740	60.3	64.1	65.0	0.63	0.76	0.84	0.69	56	3405	57.5	63.0	66,0 ⁽²⁾	0.56	0.67	0.76	0.62	
0.37	0.37	0.5	2805	69.0	70.1	70.3	0.66	0.79	0.87	0.90	56	3455	66.0	70.0	72.0	0.59	0.72	0.82	0.78	
0.55	0.55	0.75	2750	70.8	71.9	74.1	0.73	0.85	0.91	1.29	60	3410	68.0	72.0	74.0	0.65	0.79	0.86	1.08	
0.75	0.75	1	2770	77.7	78.0	78.0	0.66	0.81	0.87	1.68	60	3420	74.0	77.0	78.5	0.60	0.75	0.83	1.44	
1.1	1.1	1.5	2775	78.9	79.2	79.6	0.73	0.83	0.87	2.43	62	3430	77.0	79.0	82.5	0.66	0.78	0.84	2.03	
1.5	1.5	2	2840	80.5	81.6	81.6	0.68	0.79	0.85	3.25	62	3500	78.5	82.5	84.0	0.60	0.74	0.81	2.73	
3	3	4	2865	84.9	85.0	85.0	0.76	0.85	0.88	6.09	68	3495	82.5	85.5	87.5	0.67	0.80	0.86	5.12	
4	3.8	5.2	2875	85.8	86.5	85.9	0.76	0.87	0.90	7.47	68	3505	83.6	86.2	87,4 ⁽²⁾	0.69	0.81	0.86	6.35	
5.5	5.5	7.5	2900	87.1	88.0	87.6	0.74	0.83	0.88	10.8	71	3520	85.5	87.5	88.5	0.66	0.78	0.84	9.29	
7.5	7.13	9.7	2905	87.9	88.7	88.2	0.75	0.85	0.89	13.7	69	3525	86.0	88.4	89,4 ⁽²⁾	0.68	0.81	0.86	11.6	
9.2	8.7	11.8	2910	88.5	89.3	89.0	0.73	0.84	0.89	16.7	72	3530	87.2	89.3	90.1	0.66	0.79	0.85	14.3	
11	11	15	2930	90.3	90.5	90.1	0.75	0.85	0.88	21.1	72	3555	89.5	90.2	91.0	0.69	0.81	0.86	17.6	
15	14.3	19.4	2945	91.1	91.5	91.0	0.74	0.84	0.88	27.0	72	3545	89.6	91.2	91.6	0.66	0.79	0.85	22.9	
18.5	17.6	23.9	2935	91.4	91.9	91.7	0.72	0.82	0.87	33.4	72	3550	90.0	91.5	92.3	0.65	0.77	0.84	28.4	
22	20.9	28.4	2945	92.0	92.3	91.9	0.77	0.86	0.89	38.8	72	3550	90.9	92.2	92.4	0.72	0.83	0.87	32.6	
30	30	40	2950	92.7	92.9	92.6	0.79	0.85	0.88	55.9	72	3560	91.7	92.4	93.0	0.73	0.83	0.87	46.5	
37	35.2	47.8	2945	93.0	93.4	93.1	0.78	0.86	0.88	65.1	76	3555	92.2	93.0	93.0	0.72	0.83	0.87	54.5	
45	42.8	58	2955	93.2	93.6	93.3	0.80	0.89	0.90	77.3	76	3560	91.7	92.8	93.0	0.74	0.85	0.90	64.1	
55	55	75	2955	93.8	93.8	93.6	0.83	0.88	0.90	99.2	79	3565	92.4	93.0	93.6	0.76	0.86	0.90	81.9	
75	75	100	2970	93.6	94.3	94.1	0.82	0.88	0.90	135	79	3575	91.7	93.0	93.6	0.74	0.84	0.88	114	
90	90	125	2970	94.2	94.6	94.4	0.83	0.88	0.90	161	79	3580	92.4	93.6	94.5	0.76	0.86	0.90	133	
110	110	150	2975	94.5	94.9	94.8	0.83	0.88	0.90	196	81	3580	92.4	94.1	94.5	0.76	0.86	0.90	162	
132	132	175	2975	94.6	95.1	94.9	0.83	0.89	0.91	232	81	3580	93.0	94.1	95.0	0.74	0.85	0.89	196	
132	132	180	2975	94.6	95.1	94.9	0.83	0.89	0.91	232	81	3580	93.0	94.1	95.0	0.74	0.85	0.89	196	
150	143	194	2980	94.0	94.8	94.8	0.78	0.87	0.89	256	81	3580	93.0	94.6	94,9 ⁽²⁾	0.74	0.84	0.88	214	
160	160	220	2975	94.9	95.2	95.2	0.83	0.89	0.91	281	81	3580	91.0	93.6	95.0	0.77	0.87	0.90	235	
185	185	250	2975	95.0	95.5	95.3	0.83	0.88	0.90	328	81	3580	94.1	95.0	95.4	0.76	0.86	0.90	270	
200	200	270	2975	95.0	95.4	95.2	0.85	0.89	0.91	351	84	3580	94.1	95.0	95.4	0.79	0.88	0.90	292	
220	209	283	2975	95.0	95.4	95.3	0.81	0.89	0.91	366	84	3580	93.9	94.9	95,3 ⁽²⁾	0.76	0.86	0.90	305	
250	238	323	2980	95.1	95.4	95.4	0.84	0.91	0.91	415	84	3580	94.2	95.0	95,3 ⁽²⁾	0.79	0.88	0.91	343	
280	266	361	2975	95.1	95.5	95.4	0.85	0.91	0.91	465	84	3580	94.5	95.2	95.4	0.81	0.89	0.91	384	
300	285	387	2975	95.1	95.5	95.5	0.86	0.91	0.91	498	84	3580	94.9	95.4	95.4	0.81	0.89	0.91	412	
315	299	406	2980	94.4	95.2	95.5	0.87	0.92	0.92	517	84	3580	94.6	95.3	95.5	0.84	0.91	0.91	432	
330	314	426	2980	95.1	95.4	95.4	0.88	0.91	0.91	548	84	3580	94.7	95.3	95.5	0.84	0.90	0.91	452	
355	337	457	2980	95.2	95.5	95.4	0.87	0.92	0.91	590	84	3585	93.9	94.9	95,3 ⁽²⁾	0.83	0.91	0.92	482	
370	370	500	2980	95.8	96.0	96.2	0.86	0.90	0.91	642	84	3585	94.5	95.8	96.2	0.82	0.89	0.90	536	
400	400	550	2985	95.9	96.2	96.3	0.87	0.90	0.91	694	84	3585	95.0	95.8	96.2	0.82	0.89	0.91	573	
450	450	610	2985	95.9	96.2	96.5	0.87	0.91	0.91	779	89	3585	95.0	95.8	96.2	0.83	0.90	0.91	645	

Notes:

(2) Motors do not comply with IE2 (60Hz) efficiency values from IEC 60034-30-1 at 45°C. According to the standard they comply with IE1.

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - High Efficiency - IE2 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*			Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/Tn	Inertia J (kgm ²)	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			
															50	75	100	50	75	100	
kW	kW	HP							Hot	Cold											
IV pole																					
0.12	0.12	0.16	63	0.83	3.9	1.8	2.0	0.0004	51	112	7.0	44	1380	55.0	58.0	59.1	0.54	0.67	0.77	0.38	
0.18	0.18	0.25	63	1.26	4.1	2.0	2.0	0.0006	40	88	7.2	44	1370	53.0	59.0	64.7	0.50	0.63	0.72	0.59	
0.25	0.25	0.33	71	1.71	4.5	2.0	2.2	0.0007	68	150	10.2	43	1400	59.0	65.0	68.5	0.49	0.62	0.71	0.78	
0.37	0.37	0.5	71	2.56	4.3	2.0	2.0	0.0008	48	106	10.8	43	1380	63.0	66.0	72.7	0.50	0.64	0.74	1.06	
0.55	0.55	0.75	80	3.70	6.0	2.2	2.5	0.0029	18	40	15.0	44	1420	72.0	73.8	77.1	0.60	0.73	0.82	1.31	
0.75	0.75	1	80	5.08	6.0	2.6	2.6	0.0029	15	33	15.0	44	1410	79.0	79.6	79.8	0.63	0.76	0.81	1.63	
1.1	1.1	1.5	90S	7.30	6.5	2.1	2.6	0.0049	14	31	20.8	49	1440	81.0	81.8	81.8	0.62	0.75	0.81	2.40	
1.5	1.5	2	90L	9.95	6.3	2.0	2.8	0.0055	10	22	22.0	49	1440	81.5	83.0	83.0	0.57	0.71	0.80	3.26	
2.2	2.2	3	100L	14.7	7.0	3.1	3.2	0.0105	11	24	34.0	53	1435	83.0	84.5	84.5	0.60	0.73	0.81	4.64	
3	2.8	3.8	100L	19.1	6.8	3.4	3.5	0.0097	14	30	34.0	53	1425	84.4	85.8	85.7	0.61	0.74	0.81	5.93	
4	3.8	5.2	112M	25.1	6.9	2.1	2.8	0.0156	13	29	43.0	56	1445	85.5	86.8	86.8	0.60	0.73	0.79	8.00	
5.5	5.5	7.5	132S	36.0	7.3	1.9	3.0	0.0528	8	18	67.0	60	1460	87.5	88.0	88.1	0.68	0.80	0.86	10.5	
7.5	7.1	9.7	132M	46.8	7.5	2.1	3.2	0.0528	8	17	68.0	60	1455	88.2	89.2	89.1	0.69	0.81	0.85	13.5	
11	11	15	160M	71.5	6.4	2.3	2.8	0.1048	10	22	105	61	1470	89.0	90.2	90.2	0.65	0.76	0.83	21.2	
15	14.3	19.4	160L	93.2	6.5	2.4	3.0	0.1255	10	22	125	61	1465	90.2	91.2	91.0	0.63	0.76	0.82	27.5	
18.5	18.5	25	180M	121	6.6	2.4	2.8	0.1657	14	31	164	61	1465	91.5	91.8	91.6	0.68	0.78	0.83	35.1	
22	22	30	180L	143	6.8	2.6	2.9	0.2006	15	33	186	61	1465	92.2	92.5	92.3	0.70	0.80	0.85	40.5	
30	28.5	38.8	200L	185	6.6	2.3	2.7	0.2929	16	35	222	65	1470	92.3	93.1	92.9	0.66	0.78	0.82	54.0	
37	37	50	225S/M	240	6.6	2.2	2.7	0.4438	12	26	342	66	1475	93.0	93.2	93.2	0.74	0.83	0.86	66.6	
45	45	60	225S/M	292	6.8	2.4	2.7	0.5177	10	22	363	66	1475	93.2	93.7	93.6	0.74	0.83	0.86	80.7	
55	55	75	250S/M	356	6.4	2.2	2.7	0.8118	14	31	444	66	1475	93.6	93.9	94.0	0.75	0.84	0.87	97.1	
75	75	100	280S/M	483	7.2	2.0	2.7	1.64	22	48	639	69	1485	93.8	94.4	94.4	0.74	0.83	0.86	133	
90	90	125	280S/M	579	7.2	2.1	2.7	1.88	20	44	673	69	1485	94.1	94.7	94.7	0.76	0.84	0.87	158	
110	110	150	315S/M	705	6.6	2.3	2.5	2.57	26	57	887	71	1490	94.3	95.0	95.0	0.74	0.83	0.86	194	
132	132	175	315S/M	846	6.6	2.1	2.4	3.12	22	48	953	71	1490	94.6	95.2	95.2	0.76	0.84	0.87	230	
150	150	200	315S/M	962	6.2	2.2	2.4	3.34	30	66	983	71	1490	95.0	95.4	95.4	0.77	0.84	0.87	261	
160	152	206	315S/M	974	6.9	2.3	2.5	3.56	20	44	1012	71	1490	94.7	95.4	95.4	0.74	0.84	0.87	264	
185	185	250	315S/M	1186	6.8	2.4	2.4	3.99	18	40	1114	71	1490	94.9	95.6	95.6	0.75	0.83	0.86	325	
200	200	270	315L	1283	6.7	2.4	2.4	4.43	17	37	1216	74	1490	95.0	95.6	95.6	0.77	0.84	0.87	347	
220	220	300	315L	1411	7.0	2.6	2.4	4.89	14	31	1333	74	1490	95.2	95.7	95.7	0.76	0.84	0.87	381	
250	238	323	315L	1526	7.4	2.7	2.5	5.44	13	28	1399	74	1490	95.2	95.7	95.7	0.75	0.85	0.88	407	
260	247	335	355M/L	1579	7.2	2.2	2.5	7.73	18	40	1470	76	1490	95.2	95.8	95.8	0.71	0.82	0.85	438	
280	266	361	315L	1705	7.6	2.7	2.5	6.20	12	26	1496	74	1490	95.2	95.8	95.8	0.74	0.84	0.87	460	
300	285	387	355M/L	1827	7.6	2.3	2.5	8.59	18	39	1510	76	1490	95.4	95.8	95.8	0.72	0.82	0.85	505	
315	299	406	355M/L	1917	7.6	2.5	2.5	8.94	14	30	1643	76	1490	95.4	95.8	95.8	0.71	0.82	0.86	524	
330	330	450	355M/L	2116	6.8	2.2	2.4	9.84	17	37	1769	76	1490	95.5	95.8	95.8	0.75	0.83	0.86	578	
355	337	457	355M/L ⁽⁵⁾	2161	7.3	2.5	2.4	10.73	15	33	1752	76	1490	95.4	95.9	95.8	0.73	0.83	0.86	590	
370	352	478	355M/L ⁽⁵⁾	2257	7.4	2.5	2.5	11.63	15	33	1971	76	1490	95.4	95.9	95.8	0.73	0.83	0.86	615	
400	380	516	355M/L ⁽⁵⁾	2436	8.2	2.7	2.5	11.63	11	24	1888	76	1490	95.4	95.9	95.8	0.71	0.82	0.86	665	
450	428	581	355A/B ⁽⁵⁾	2744	7.8	2.6	3.0	13.22	20	44	2089	76	1490	95.6	96.2	96.2	0.67	0.79	0.84	763	
500	500	680	355A/B ⁽⁵⁾	3206	7.3	2.4	2.7	14.60	17	37	2246	76	1490	95.9	96.3	96.3	0.72	0.81	0.85	882	

Notes:

(5) Fitted with air deflector in the drive end side.

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) * 9555 / n (rpm)$.

W22 Marine Motors - High Efficiency - IE2 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	
kW	kW	HP																		
IV pole																				
0.12	0.12	0.16	1360	56.8	58.7	59.1	0.58	0.71	0.80	0.39	48	1695	54.5	58.5	62,0 ⁽²⁾	0.51	0.63	0.72	0.34	
0.18	0.18	0.25	1350	60.4	61.3	64.7	0.54	0.67	0.76	0.60	48	1690	58.5	62.0	64.0	0.51	0.63	0.72	0.49	
0.25	0.25	0.33	1380	60.0	65.0	68.5	0.53	0.66	0.74	0.80	48	1720	60.0	65.0	68,0 ⁽²⁾	0.48	0.59	0.67	0.75	
0.37	0.37	0.5	1360	64.8	66.5	72.7	0.55	0.68	0.78	1.06	47	1705	62.0	66.0	70,0 ⁽²⁾	0.48	0.60	0.70	0.97	
0.55	0.55	0.75	1410	73.0	73.1	77.1	0.65	0.77	0.85	1.34	47	1730	71.0	75.7	76.0	0.57	0.70	0.79	1.15	
0.75	0.75	1	1400	80.1	79.9	79.8	0.68	0.80	0.84	1.66	48	1720	78.5	80.0	82.5	0.61	0.74	0.79	1.41	
1.1	1.1	1.5	1432	81.9	81.8	81.5	0.67	0.78	0.83	2.47	51	1745	80.0	82.5	84.0	0.59	0.73	0.80	2.05	
1.5	1.5	2	1430	82.8	83.2	82.8	0.63	0.77	0.83	3.32	51	1745	81.5	84.0	84.0	0.55	0.69	0.78	2.87	
2.2	2.2	3	1425	83.5	84.3	84.3	0.65	0.77	0.83	4.80	51	1745	83.0	85.5	87.5	0.58	0.71	0.80	3.94	
3	2.8	3.8	1415	84.8	85.9	85.5	0.65	0.77	0.83	6.10	54	1735	83.6	86.2	87,4 ⁽²⁾	0.59	0.72	0.79	5.18	
4	3.8	5.2	1440	85.9	86.9	86.7	0.65	0.77	0.82	8.12	54	1745	85.4	87.2	87.6	0.57	0.70	0.78	6.98	
5.5	5.5	7.5	1455	88.1	87.7	87.7	0.73	0.83	0.88	10.8	56	1765	86.8	88.0	89.5	0.65	0.78	0.85	9.07	
7.5	7.1	9.7	1450	88.4	89.1	88.7	0.73	0.83	0.87	14.0	58	1760	88.4	89.9	90.3	0.65	0.78	0.84	11.7	
11	11	15	1465	89.5	90.2	89.8	0.69	0.79	0.85	21.9	58	1775	88.5	90.2	91.0	0.62	0.75	0.82	18.5	
15	14.3	19.4	1460	90.6	91.1	90.7	0.67	0.79	0.84	28.4	64	1770	89.6	91.2	91.6	0.60	0.73	0.80	24.4	
18.5	18.5	25	1460	91.8	91.7	91.2	0.72	0.81	0.85	36.3	64	1770	91.0	92.4	92.4	0.65	0.77	0.83	30.3	
22	22	30	1460	92.5	92.4	91.9	0.74	0.83	0.87	41.8	64	1770	91.7	92.4	92.4	0.66	0.79	0.85	35.2	
30	28.5	38.8	1465	92.6	93.1	92.5	0.70	0.81	0.85	55.0	66	1770	92.1	93.0	93.0	0.63	0.76	0.82	46.9	
37	37	50	1470	93.2	93.1	92.8	0.78	0.86	0.87	69.6	66	1775	92.4	93.0	93.6	0.71	0.83	0.87	57.0	
45	45	60	1470	93.5	93.6	93.2	0.78	0.86	0.88	83.4	67	1775	92.4	93.6	93.6	0.71	0.83	0.87	69.4	
55	55	75	1470	93.8	93.8	93.7	0.79	0.86	0.88	101	67	1775	93.0	93.6	94.1	0.72	0.83	0.87	84.3	
75	75	100	1480	94.2	94.5	94.2	0.78	0.86	0.87	139	68	1785	92.4	94.1	94.5	0.72	0.82	0.86	116	
90	90	125	1480	94.4	94.7	94.5	0.80	0.86	0.88	164	73	1780	93.0	94.1	94.5	0.74	0.84	0.88	136	
110	110	150	1490	94.6	94.9	94.9	0.78	0.86	0.88	200	73	1790	93.0	94.5	95.0	0.72	0.84	0.87	167	
132	132	175	1485	94.8	95.2	95.0	0.79	0.86	0.88	240	75	1790	93.6	94.5	95.0	0.73	0.84	0.87	200	
150	150	200	1490	95.2	95.4	95.2	0.80	0.85	0.88	272	75	1780	93.6	95.0	95.4	0.72	0.82	0.86	229	
160	152	206	1485	94.9	95.4	95.3	0.78	0.86	0.88	275	75	1790	93.7	94.7	95.0	0.72	0.83	0.87	230	
185	185	250	1485	95.1	95.6	95.5	0.79	0.85	0.87	338	75	1790	94.1	95.0	95.4	0.72	0.83	0.86	283	
200	200	270	1485	95.1	95.5	95.4	0.80	0.86	0.88	362	78	1790	94.1	95.0	95.4	0.74	0.84	0.88	299	
220	220	300	1490	95.4	95.7	95.6	0.80	0.86	0.88	397	78	1790	94.5	95.4	95.4	0.73	0.84	0.87	333	
250	238	323	1490	95.4	95.9	95.8	0.78	0.87	0.89	423	78	1790	94.3	95.3	95.7	0.72	0.83	0.88	353	
260	247	335	1490	95.4	95.8	95.7	0.75	0.84	0.86	456	78	1790	94.7	95.5	95.7	0.68	0.80	0.85	381	
280	266	361	1490	95.4	95.9	95.8	0.77	0.86	0.88	479	78	1790	94.7	95.5	95.7	0.71	0.83	0.87	400	
300	285	387	1490	95.4	95.7	95.7	0.75	0.85	0.87	520	78	1790	94.7	95.5	95.7	0.70	0.81	0.85	439	
315	299	406	1490	95.4	95.8	95.7	0.74	0.84	0.87	546	78	1790	95.1	95.7	95.8	0.75	0.85	0.87	450	
330	330	450	1485	95.5	95.7	95.7	0.74	0.79	0.85	616	78	1790	95.0	95.8	95.8	0.70	0.81	0.86	503	
355	337	457	1490	95.4	95.8	95.7	0.76	0.85	0.87	615	78	1790	95.0	95.6	95.8	0.69	0.81	0.86	513	
370	352	478	1490	94.9	95.5	95.7	0.76	0.85	0.87	641	78	1790	95.3	95.8	95.9	0.73	0.84	0.87	528	
400	380	516	1490	95.5	95.9	95.8	0.75	0.84	0.87	692	78	1790	95.0	95.6	95.8	0.69	0.81	0.86	578	
450	428	581	1490	95.8	96.2	96.2	0.71	0.82	0.86	785	78	1790	95.1	95.9	96.1	0.64	0.77	0.83	672	
500	500	680	1490	96.1	96.3	96.3	0.76	0.84	0.87	907	81	1790	95.4	96.2	96.2	0.69	0.81	0.85	767	

Notes:

(2) Motors do not comply with IE2 (60Hz) efficiency values from IEC 60034-30-1 at 45°C. According to the standard they comply with IE1.

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - High Efficiency - IE2 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*		Frame	Full load torque (Nm)**	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							
									Rated speed (rpm)	% of full load						Full load current I _n (A)				
										Efficiency			Power factor							
										50			75	100	50		75	100		
kW	kW	HP						Hot	Cold											
VI pole																				
0.12	0.12	0.16	63	1.27	3.0	1.9	2.0	0.0006	52	114	7.2	43	905	42.0	50.0	52.0	0.43	0.53	0.63	0.53
0.18	0.18	0.25	71	1.93	3.2	2.0	2.0	0.0008	96	211	9.5	43	890	52.0	58.0	59.0	0.40	0.51	0.61	0.72
0.25	0.24	0.32	71	2.64	3.2	2.0	2.2	0.0008	70	153	10.0	43	870	52.8	58.6	61.5	0.36	0.46	0.56	1.01
0.37	0.37	0.50	80	3.88	3.9	1.8	2.0	0.0022	27	59	10.5	43	910	63.0	67.0	67.6	0.51	0.66	0.76	1.05
0.55	0.55	0.75	80	5.77	4.1	2.0	2.2	0.0030	21	46	14.0	43	910	65.0	71.0	73.1	0.50	0.65	0.75	1.49
0.75	0.75	1	90S	7.75	4.5	2.0	2.1	0.0055	23	51	19.0	45	925	74.5	76.0	76.0	0.51	0.64	0.73	1.95
1.1	1	1.4	90L	10.7	4.8	2.4	2.3	0.0066	17	37	23.0	45	930	75.3	78.1	78.2	0.48	0.61	0.71	2.72
1.5	1.5	2	100L	15.3	5.0	2.0	2.4	0.0110	23	51	28.5	44	940	79.5	80.0	80.0	0.51	0.64	0.73	3.71
2.2	2.2	3	112M	21.8	7.1	3.5	3.9	0.0257	17	37	38.0	52	965	80.8	82.7	83.5	0.41	0.54	0.64	5.94
3	2.8	3.8	132S	28.3	5.9	2.1	2.5	0.0359	31	68	57.0	53	960	82.0	83.7	83.7	0.48	0.61	0.70	7.02
4	3.8	5.2	132M	37.8	6.2	2.2	2.6	0.0453	21	46	68.0	53	960	83.4	85.0	84.9	0.49	0.62	0.71	9.10
5.5	5.2	7.1	132M	52.0	6.6	2.3	2.8	0.0604	19	42	72.0	53	960	84.9	86.3	86.2	0.49	0.62	0.71	12.3
7.5	7.5	10	160M	73.9	5.8	2.0	2.6	0.1229	17	37	113	56	970	88.3	88.7	88.3	0.64	0.76	0.82	15.0
9.2	9.2	12.5	160L	90.6	6.0	2.2	2.6	0.1492	14	31	127	56	970	88.5	88.9	88.6	0.64	0.76	0.82	18.3
11	10.5	14.3	160L	103	6.3	2.4	2.8	0.1664	13	29	136	56	970	88.6	89.6	89.3	0.60	0.73	0.80	21.1
15	14.3	19.4	180L	140	7.3	2.5	3.2	0.2565	7	15	174	56	970	89.9	90.7	90.4	0.68	0.80	0.85	26.7
18.5	18.5	25	200L	181	5.7	2.1	2.5	0.3517	15	33	214	60	975	91.0	91.4	91.2	0.67	0.77	0.82	35.7
22	22	30	200L	216	6.0	2.2	2.7	0.4037	14	31	225	60	975	91.4	91.7	91.5	0.65	0.76	0.82	42.3
30	30	40	225S/M	291	6.8	2.1	2.5	0.7192	12	26	359	63	985	92.6	92.7	92.6	0.71	0.81	0.86	54.4
37	37	50	250S/M	359	6.7	2.2	2.5	1.10	16	35	438	64	985	93.0	93.2	93.0	0.73	0.82	0.86	66.8
45	45	60	280S/M	437	6.2	2.0	2.5	2.02	26	57	596	65	985	93.4	93.6	93.4	0.68	0.78	0.82	84.8
55	55	75	280S/M	534	6.2	2.0	2.4	2.36	22	48	629	65	985	93.6	93.9	93.8	0.68	0.79	0.83	102
75	71.3	96.8	315S/M	688	6.5	2.0	2.3	3.82	23	51	837	67	990	93.7	94.4	94.3	0.67	0.78	0.83	131
90	85.5	116	315S/M	825	6.3	2.0	2.2	4.53	22	48	893	67	990	94.2	94.7	94.5	0.69	0.80	0.84	155
110	110	150	315S/M	1062	6.1	2.0	2.2	5.45	20	44	966	67	990	94.5	94.9	94.8	0.72	0.80	0.84	199
132	125	170	315S/M	1206	6.7	2.3	2.5	6.35	17	37	1036	67	990	94.4	95.0	95.0	0.68	0.80	0.84	226
150	143	194	355M/L	1373	5.8	1.9	2.1	7.40	38	84	1340	73	995	93.7	94.7	94.9	0.62	0.74	0.78	277
160	160	220	315L	1544	6.6	2.2	2.4	7.61	14	31	1228	68	990	94.8	95.2	95.2	0.70	0.80	0.84	289
185	176	239	315L	1698	7.3	2.4	2.5	8.86	12	26	1358	68	990	94.9	95.4	95.4	0.67	0.79	0.83	320
200	190	258	315L	1833	7.4	2.5	2.6	10.12	12	26	1488	68	990	94.9	95.4	95.4	0.67	0.79	0.83	346
220	209	283	315L	2017	7.2	2.4	2.4	11.00	14	31	1621	68	990	95.0	95.5	95.5	0.67	0.79	0.83	380
250	238	323	355M/L	2297	6.2	2.1	2.3	13.91	34	75	1789	73	990	95.1	95.6	95.5	0.64	0.76	0.80	448
260	247	335	355M/L	2383	6.2	2.2	2.3	12.71	34	75	1789	73	990	95.1	95.6	95.5	0.64	0.76	0.80	466
280	266	361	355M/L	2567	6.4	2.3	2.3	13.86	27	59	1884	73	990	95.2	95.7	95.6	0.62	0.74	0.79	508
300	285	387	355M/L	2750	6.4	2.3	2.3	14.32	30	66	1900	73	990	95.2	95.7	95.6	0.61	0.73	0.78	551
315	299	406	355M/L ⁽⁵⁾	2871	6.4	2.3	2.3	15.02	28	62	1979	73	995	95.3	95.7	95.6	0.63	0.76	0.80	564
355	355	480	355A/B ⁽⁵⁾	3426	6.2	2.0	2.3	17.10	29	64	2200	73	990	95.3	95.7	95.8	0.63	0.74	0.79	677
370	352	478	355A/B ⁽⁵⁾	3397	6.2	2.3	2.4	17.99	25	55	2300	73	990	95.2	95.8	95.9	0.61	0.73	0.78	678
400	380	516	355A/B ⁽⁵⁾	3667	6.3	2.1	2.4	18.92	29	64	2346	73	990	95.2	95.8	95.9	0.61	0.73	0.78	733

Notes:

(5) Fitted with air deflector in the drive end side.

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = \text{Power (kW)} \cdot 9555 / n \text{ (rpm)}$.

W22 Marine Motors - High Efficiency - IE2 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	

VI pole

0.12	0.12	0.16	895	45.4	52.1	52.9	0.46	0.57	0.67	0.51	47	1115	46.0	50.5	52.5	0.40	0.48	0.56	0.51
0.18	0.18	0.25	875	54.2	59.0	58.7	0.43	0.55	0.65	0.72	47	1105	52.5	57.5	59.5	0.37	0.46	0.55	0.69
0.25	0.24	0.32	855	56.2	60.5	61.8	0.40	0.50	0.60	0.98	47	1055	56.5	61.8	63.9	0.37	0.47	0.56	0.98
0.37	0.37	0.5	895	65.2	67.7	67.6	0.56	0.70	0.80	1.06	47	1120	64.0	68.0	70.0	0.48	0.60	0.70	0.95
0.55	0.55	0.75	900	67.5	71.8	73.1	0.55	0.69	0.79	1.51	47	1115	66.0	72.0	74.0	0.47	0.59	0.70	1.33
0.75	0.75	1	915	75.8	75.9	75.9	0.55	0.68	0.76	1.98	49	1135	74.0	78.5	80.0	0.48	0.60	0.69	1.71
1.1	1	1.4	920	76.9	78.9	78.6	0.53	0.66	0.75	2.69	48	1140	76.5	79.7	80,1 ⁽²⁾	0.46	0.58	0.67	2.44
1.5	1.5	2	930	80.7	80.1	79.8	0.55	0.69	0.76	3.76	52	1145	80.0	81.5	84,0 ⁽²⁾	0.49	0.61	0.70	3.30
2.2	2.2	3	960	82.0	83.1	84.2	0.46	0.60	0.68	5.84	52	1170	81.7	84.8	87.5	0.40	0.52	0.61	5.17
3	2.8	3.8	955	82.9	84.0	83.5	0.53	0.65	0.73	7.10	55	1165	80.8	84.6	86.8	0.46	0.58	0.67	6.15
4	3.8	5.2	955	84.3	85.3	84.8	0.54	0.66	0.73	9.33	55	1165	83.5	86.3	87.4	0.47	0.59	0.68	8.03
5.5	5.2	7.1	955	85.8	86.6	86.1	0.54	0.67	0.74	12.4	55	1165	84.6	87.6	89,2 ⁽²⁾	0.48	0.60	0.68	10.8
7.5	7.5	10	965	88.7	88.6	87.7	0.68	0.79	0.84	15.5	55	1175	88.5	89.5	89.5	0.61	0.74	0.80	13.1
9.2	9.2	12.5	965	88.9	88.8	88.1	0.68	0.79	0.84	18.9	59	1175	88.5	89.5	90.2	0.60	0.74	0.80	16.0
11	10.5	14.3	965	89.3	89.7	89.0	0.64	0.76	0.82	21.7	59	1175	89.1	90.3	90.3	0.56	0.70	0.78	18.6
15	14.3	19.4	965	90.3	90.6	89.9	0.72	0.83	0.88	27.3	59	1175	89.9	91.0	91.1	0.65	0.78	0.84	23.3
18.5	18.5	25	970	91.5	91.4	90.8	0.71	0.80	0.84	36.9	59	1175	91.0	91.7	91.7	0.64	0.76	0.81	31.3
22	22	30	970	92.0	91.8	91.2	0.70	0.79	0.84	43.6	62	1175	91.0	91.7	92.4	0.62	0.75	0.81	36.9
30	30	40	980	92.8	92.5	92.1	0.75	0.83	0.87	56.9	62	1180	91.7	92.4	93.0	0.70	0.82	0.87	46.5
37	37	50	980	93.2	93.0	92.6	0.77	0.84	0.87	69.8	66	1185	92.4	93.0	93.0	0.70	0.82	0.86	58.1
45	45	60	980	93.7	93.6	93.1	0.72	0.81	0.84	87.4	68	1180	92.4	93.6	93.6	0.65	0.77	0.82	73.6
55	55	75	980	93.8	93.8	93.5	0.72	0.82	0.85	105	68	1185	93.0	93.6	93.6	0.65	0.77	0.83	88.9
75	71.3	96.8	990	94.1	94.4	94.1	0.71	0.81	0.84	136	69	1190	92.9	93.9	94.1	0.64	0.77	0.82	115
90	85.5	116	990	94.4	94.6	94.3	0.73	0.83	0.85	162	69	1190	93.5	94.4	94.5	0.66	0.78	0.83	136
110	110	150	990	94.7	94.9	94.5	0.76	0.82	0.85	208	70	1190	94.1	94.5	95.0	0.69	0.80	0.84	173
132	125	170	990	94.7	95.1	94.9	0.73	0.83	0.85	236	70	1190	94.0	94.9	95.0	0.66	0.78	0.84	197
150	143	194	990	94.3	94.9	94.8	0.66	0.77	0.81	281	70	1190	94.4	95.1	95.1	0.70	0.81	0.85	222
160	160	220	990	95.0	95.2	95.0	0.74	0.82	0.85	301	70	1190	94.5	95.0	95.4	0.66	0.79	0.84	251
185	176	239	990	95.1	95.4	95.3	0.71	0.82	0.84	333	77	1190	94.5	95.2	95.4	0.63	0.76	0.82	281
200	190	258	990	95.2	95.5	95.3	0.71	0.82	0.85	356	77	1190	94.5	95.2	95.4	0.63	0.76	0.82	304
220	209	283	985	95.2	95.4	95.3	0.71	0.81	0.84	396	77	1190	94.5	95.2	95.4	0.63	0.76	0.82	335
250	238	323	990	95.3	95.6	95.4	0.68	0.79	0.83	455	77	1190	94.5	95.3	95.4	0.62	0.76	0.81	385
260	247	335	990	95.3	95.6	95.4	0.68	0.79	0.83	473	77	1190	94.8	95.4	95.4	0.62	0.75	0.81	401
280	266	361	990	95.4	95.7	95.5	0.66	0.78	0.82	516	77	1190	94.8	95.4	95.4	0.59	0.73	0.79	442
300	285	387	990	95.5	95.8	95.6	0.63	0.74	0.79	573	77	1190	94.8	95.4	95.4	0.55	0.69	0.76	493
315	299	406	995	95.5	95.8	95.6	0.68	0.79	0.83	573	77	1190	95.1	95.7	95.7	0.63	0.76	0.80	490
355	355	480	990	95.4	95.7	95.7	0.64	0.75	0.79	713	77	1190	94.5	95.4	95.8	0.58	0.71	0.77	604
370	352	478	990	95.4	95.9	95.8	0.63	0.75	0.80	696	77	1190	95.3	95.7	95.6	0.63	0.75	0.79	584
400	380	516	990	95.5	96.0	95.9	0.65	0.76	0.81	743	77	1190	94.9	95.7	95.8	0.58	0.71	0.77	646

Notes:

(2) Motors do not comply with IE2 (60Hz) efficiency values from IEC 60034-30-1 at 45°C. According to the standard they comply with IE1.

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - High Efficiency - IE2 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*		Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque TI/Tn	Breakdown torque Tb/Tn	Inertia J (kgm ²)	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			
														50	75	100	50	75	100	
0.12	0.12	0.16	71	1.76	2.3	1.9	2.0	0.0008	172	378	9.5	41	650	40.0	48.0	50.0	0.35	0.43	0.52	0.67
0.18	0.18	0.25	80	2.57	3.1	1.9	2.1	0.0024	48	106	11.5	42	670	47.0	53.0	55.0	0.44	0.55	0.65	0.73
0.25	0.25	0.33	80	3.57	3.2	1.9	2.1	0.0029	42	92	13.5	42	670	49.0	55.0	57.0	0.43	0.55	0.66	0.96
0.37	0.37	0.5	90S	5.12	3.5	1.8	2.0	0.0044	37	81	18.0	43	690	56.0	62.0	62.0	0.41	0.52	0.62	1.39
0.55	0.55	0.75	90L	7.67	3.5	1.9	2.0	0.0060	31	68	22.0	43	685	61.0	64.0	64.0	0.44	0.56	0.66	1.88
0.75	0.75	1	100L	10.1	4.6	2.0	2.4	0.0110	42	92	28.5	50	710	71.0	74.0	74.0	0.40	0.52	0.62	2.36
1.1	1.1	1.5	100L	14.9	4.6	2.1	2.3	0.0127	29	64	30.5	50	705	71.0	75.0	75.0	0.40	0.53	0.62	3.41
1.5	1.5	2	112M	20.5	4.7	2.4	2.3	0.0202	29	64	39.0	46	700	77.0	79.0	79.0	0.44	0.57	0.67	4.09
2.2	2.2	3	132S	30.0	5.5	2.2	2.4	0.0592	25	55	62.0	48	700	81.0	81.5	81.0	0.52	0.65	0.72	5.44
3	2.8	3.8	132M	38.9	5.7	2.4	2.5	0.0740	19	34	66.0	48	700	81.5	82.6	82.2	0.52	0.65	0.72	6.95
4	3.8	5.2	160M	50.0	4.9	2.1	2.3	0.1053	29	64	107	51	725	83.3	85.2	85.1	0.51	0.63	0.71	9.08
5.5	5.2	7.1	160M	68.9	4.9	2.1	2.3	0.1404	21	46	120	51	725	84.6	86.1	85.7	0.50	0.64	0.72	12.2
7.5	7.1	9.7	160L	93.9	5.1	2.3	2.4	0.1756	22	48	139	51	725	85.5	87.1	87.1	0.50	0.64	0.72	16.4
9.2	8.7	11.8	180M	115	6.3	2.1	2.6	0.2033	11	24	156	51	725	87.6	88.2	87.7	0.61	0.74	0.81	17.7
11	10.5	14.3	180L	138	6.3	2.2	2.5	0.2439	11	24	175	51	725	87.7	88.5	88.2	0.62	0.76	0.81	21.1
15	14.3	19.4	200L	187	5.1	2.0	2.1	0.4220	30	66	226	53	730	89.8	90.5	90.2	0.56	0.69	0.75	30.4
18.5	17.6	23.9	225S/M	228	6.6	2.1	2.5	0.6183	17	37	339	56	735	91.3	91.9	91.8	0.63	0.76	0.81	34.1
22	20.9	28.4	225S/M	271	6.4	2.1	2.5	0.7203	16	35	358	56	735	91.4	92.1	92.0	0.65	0.77	0.81	40.4
30	28.5	38.8	250S/M	370	7.0	2.2	2.8	1.06	13	29	433	56	735	91.8	92.4	92.4	0.66	0.78	0.83	53.6
37	35.2	47.8	280S/M	454	5.8	1.9	2.2	2.25	26	57	614	59	740	92.7	93.5	93.5	0.61	0.74	0.79	68.6
45	42.8	58	280S/M	552	6.0	2.0	2.2	2.70	23	51	660	59	740	93.1	93.9	93.8	0.61	0.74	0.79	83.2
55	52.3	71	315S/M	675	6.1	1.9	2.2	4.02	32	70	851	62	740	93.5	94.2	94.2	0.64	0.76	0.80	100
75	71.3	96.8	315S/M	920	6.2	1.9	2.2	5.30	30	66	951	62	740	93.8	94.6	94.6	0.66	0.77	0.81	134
90	85.5	116	315S/M	1103	6.3	2.0	2.2	6.22	26	57	1020	62	740	94.1	94.8	94.7	0.66	0.77	0.81	160
110	105	142	315L	1355	6.3	2.0	2.2	7.83	28	62	1244	68	740	94.4	94.9	94.8	0.64	0.76	0.80	198
132	125	170	315L	1614	6.5	2.1	2.4	9.29	20	44	1352	68	740	94.6	95.2	95.1	0.62	0.74	0.79	240
160	152	206	355M/L	1949	6.2	1.6	2.4	14.39	54	119	1616	70	745	95.0	95.6	95.6	0.61	0.74	0.79	290
185	176	239	355M/L	2257	6.3	1.6	2.4	16.53	48	106	1691	70	745	95.0	95.6	95.6	0.59	0.72	0.77	344
200	190	258	355M/L	2436	6.5	1.7	2.4	18.37	48	106	1765	70	745	95.1	95.7	95.6	0.60	0.74	0.79	363
220	209	284	355M/L	2680	6.5	1.6	2.4	19.90	48	106	1875	70	745	95.2	95.8	95.7	0.61	0.73	0.78	404
280	266	361	355A/B ⁽⁵⁾	3411	7.8	2.1	3.0	25.03	44	97	2279	70	745	94.9	95.7	95.8	0.59	0.72	0.78	513

Notes:

(5) Fitted with air deflector in the drive end side.

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) * 9555 / n (rpm)$.



W22 Marine Motors - High Efficiency - IE2 - Ambient Temperature 45°C - - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	

VIII pole

0.12	0.12	0.16	635	42.9	50.1	50.8	0.37	0.47	0.56	0.64	45	815	42.0	48.0	52.5	0.32	0.40	0.47	0.61
0.18	0.18	0.25	660	49.3	54.4	54.9	0.47	0.59	0.69	0.72	46	830	48.0	52.5	57.5	0.39	0.48	0.57	0.69
0.25	0.25	0.33	660	51.1	56.2	56.8	0.47	0.59	0.70	0.96	46	830	50.5	55.0	59.5	0.40	0.49	0.58	0.91
0.37	0.37	0.5	680	59.5	63.8	62.4	0.44	0.56	0.67	1.34	47	850	57.5	64.0	66.0	0.37	0.47	0.56	1.26
0.55	0.55	0.75	675	63.3	65.1	63.5	0.47	0.61	0.70	1.88	47	845	62.0	66.0	68.0	0.40	0.51	0.61	1.66
0.75	0.75	1	705	73.0	75.0	73.9	0.44	0.57	0.65	2.37	47	865	72.0	75.5	75.5	0.38	0.49	0.58	2.15
1.1	1.1	1.5	700	73.6	76.2	74.9	0.45	0.57	0.66	3.38	54	860	72.0	75.5	77.0	0.38	0.49	0.58	3.09
1.5	1.5	2	695	78.8	79.6	78.5	0.49	0.61	0.70	4.15	54	855	77.0	80.0	82.5	0.42	0.54	0.62	3.68
2.2	2.2	3	695	81.8	81.5	79.9	0.57	0.69	0.75	5.58	52	855	80.0	82.5	84.0	0.49	0.62	0.70	4.70
3	2.8	3.8	695	82.5	82.6	81.2	0.57	0.68	0.74	7.21	52	855	82.1	83.9	84.1	0.49	0.62	0.70	6.08
4	3.8	5.2	720	84.2	85.3	84.6	0.54	0.67	0.73	9.35	52	880	83.7	86.2	86.6	0.47	0.60	0.69	7.98
5.5	5.2	7.1	720	85.4	86.2	85.2	0.54	0.67	0.74	12.5	54	875	85.1	87.3	87.6	0.47	0.60	0.69	10.8
7.5	7.1	9.7	720	86.5	87.3	86.8	0.54	0.68	0.75	16.6	54	875	84.9	87.4	88.4 ⁽²⁾	0.45	0.58	0.66	15.3
9.2	8.7	11.8	720	88.2	88.2	87.1	0.65	0.77	0.83	18.3	54	875	87.2	88.5	88.6	0.58	0.72	0.79	15.6
11	10.5	14.3	720	88.3	88.4	87.5	0.67	0.79	0.83	21.8	54	875	87.5	89.1	89.6	0.61	0.75	0.81	18.0
15	14.3	19.4	725	90.3	90.5	89.7	0.60	0.72	0.77	31.3	54	880	89.8	91.0	91.1	0.53	0.66	0.73	26.8
18.5	17.6	23.9	730	91.6	91.9	91.4	0.66	0.80	0.84	34.7	56	885	91.0	92.1	92.4	0.60	0.74	0.80	29.8
22	20.9	28.4	730	91.7	91.9	91.5	0.69	0.80	0.83	41.8	60	885	91.5	92.4	92.4	0.63	0.76	0.81	35.0
30	28.5	38.8	730	92.1	92.4	91.9	0.71	0.82	0.85	55.4	60	880	91.5	92.4	92.4	0.64	0.77	0.82	47.2
37	35.2	47.8	735	93.1	93.5	93.2	0.65	0.77	0.81	70.7	60	890	92.3	93.4	93.6	0.58	0.72	0.78	60.4
45	42.8	58	735	92.6	94.2	94.0	0.65	0.76	0.81	85.3	60	885	90.6	93.3	94.1	0.61	0.73	0.78	73.1
55	52.3	71	740	93.8	94.2	94.0	0.68	0.79	0.82	102	63	890	92.9	93.9	94.1	0.61	0.74	0.79	88.2
75	71.3	96.8	740	94.2	94.6	94.4	0.70	0.80	0.82	139	63	890	93.5	94.4	94.5	0.63	0.76	0.81	116
90	85.5	116	740	94.5	94.8	94.5	0.70	0.80	0.82	167	66	890	93.9	94.6	94.5	0.63	0.76	0.81	140
110	105	142	740	94.6	94.8	94.6	0.69	0.79	0.81	207	66	890	93.7	94.6	94.9	0.62	0.75	0.80	172
132	125	170	740	94.5	95.1	95.1	0.66	0.78	0.82	244	75	890	94.2	95.1	95.3	0.59	0.73	0.79	209
160	152	206	745	95.4	95.8	95.6	0.66	0.78	0.82	294	75	895	94.3	95.3	95.7	0.58	0.72	0.78	255
185	176	239	745	95.5	95.8	95.7	0.64	0.76	0.80	348	75	895	95.1	95.7	95.7	0.63	0.76	0.80	288
200	190	258	745	95.5	95.8	95.6	0.65	0.78	0.82	368	75	895	94.9	95.7	95.8	0.58	0.72	0.79	315
220	209	284	745	95.6	96.0	95.8	0.66	0.77	0.81	409	75	895	94.9	95.7	95.8	0.58	0.72	0.78	351
280	266	361	745	95.4	95.9	95.9	0.64	0.76	0.80	526	75	895	94.9	95.7	95.8	0.57	0.71	0.77	452

Notes:

(2) Motors do not comply with IE2 (60Hz) efficiency values from IEC 60034-30-1 at 45°C. According to the standard they comply with IE1.

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - Premium Efficiency - IE3 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*			Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque Tl/Tn	Inertia J (kgm ²)	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			
															50	75	100	50	75	100	
0.12	0.12	0.16	63	0.41	5.4	3.1	3.3	0.0001	30	66	6.2	52	2820	58.0	60.8	60.8	0.54	0.67	0.76	0.38	
0.18	0.18	0.25	63	0.61	5.2	3.0	3.2	0.0002	22	48	6.7	52	2815	61.0	65.9	65.9	0.53	0.65	0.74	0.53	
0.25	0.25	0.33	63	0.85	5.5	3.2	3.2	0.0002	17	37	7.2	52	2805	63.0	68.0	69.7	0.54	0.68	0.77	0.67	
0.37	0.37	0.5	71	1.25	6.0	2.5	2.5	0.0004	12	26	7.5	56	2820	73.0	73.8	73.8	0.66	0.79	0.85	0.85	
0.55	0.55	0.75	71	1.90	5.9	3.0	3.0	0.0005	18	40	8.5	56	2770	75.0	76.0	77.8	0.68	0.81	0.86	1.19	
0.75	0.75	1	80	2.54	7.5	3.5	3.5	0.0008	25	55	13.5	59	2825	80.0	82.0	81.0	0.63	0.76	0.82	1.63	
1.1	1.1	1.5	80	3.71	7.4	3.6	3.6	0.0009	23	51	15.0	59	2830	81.0	83.5	83.0	0.63	0.76	0.82	2.33	
1.5	1.5	2	90S	4.99	7.6	3.3	3.3	0.0020	15	33	18.5	62	2875	83.0	85.0	84.5	0.64	0.76	0.83	3.09	
2.2	2.2	3	90L	7.32	7.5	3.4	3.5	0.0026	12	26	23.5	62	2870	86.0	86.5	86.3	0.65	0.77	0.83	4.43	
3	3	4	100L	9.80	8.5	3.4	3.4	0.0064	15	33	35.0	67	2910	85.5	87.3	87.3	0.69	0.81	0.86	5.77	
4	4	5.5	112M	13.2	7.7	2.9	3.5	0.0081	22	48	41.0	64	2900	88.0	88.4	88.4	0.69	0.80	0.86	7.59	
5.5	5.5	7.5	132S	17.9	7.9	2.4	3.5	0.0180	16	35	62.0	67	2930	86.9	88.7	89.4	0.66	0.78	0.84	10.6	
7.5	7.5	10	132S	24.5	8.8	2.7	3.6	0.0234	10	22	65.0	67	2930	88.5	89.8	90.3	0.68	0.80	0.85	14.1	
9.2	9.2	12.5	132M	30.0	8.5	2.9	3.3	0.0303	16	35	75.0	67	2930	90.4	91.1	90.7	0.75	0.84	0.88	16.6	
11	11	15	160M	35.7	8.0	2.6	3.4	0.0482	12	26	105	67	2945	90.3	91.4	91.4	0.71	0.82	0.87	20.0	
15	15	20	160M	48.7	8.3	2.8	3.5	0.0551	8	18	112	67	2945	90.9	91.8	92.1	0.67	0.79	0.85	27.7	
18.5	17.6	23.9	160L	57.1	8.9	3.3	3.9	0.0663	6	13	125	67	2945	91.1	92.4	92.6	0.67	0.79	0.84	32.6	
22	20.9	28.4	180M	67.6	8.6	2.8	3.8	0.0968	6	13	165	67	2950	92.0	93.0	93.0	0.67	0.79	0.85	38.1	
30	30	40	200L	96.8	7.7	3.0	3.0	0.1703	16	35	225	72	2960	92.2	93.2	93.5	0.69	0.80	0.85	54.5	
37	37	50	200L	119	7.7	3.1	3.0	0.1881	13	29	250	72	2960	92.6	93.4	93.8	0.69	0.79	0.84	67.8	
45	42.8	58	225S/M	138	8.1	2.5	3.3	0.2861	13	28	380	74	2960	94.1	94.5	94.3	0.76	0.86	0.89	73.5	
55	55	75	250S/M	178	7.8	2.7	3.3	0.3736	19	42	430	74	2960	93.6	94.4	94.4	0.77	0.85	0.88	95.6	
75	75	100	280S/M	241	7.5	2.0	3.1	0.9386	36	79	630	77	2975	93.7	94.8	94.9	0.78	0.85	0.88	130	
90	90	125	280S/M	289	7.6	2.2	3.1	1.12	27	59	710	77	2975	94.3	95.2	95.2	0.81	0.87	0.90	152	
110	110	150	315S/M	353	7.5	1.9	3.0	1.66	38	84	900	77	2980	94.3	95.3	95.4	0.78	0.85	0.88	189	
132	132	175	315S/M	423	7.6	2.1	3.1	1.96	34	75	950	77	2980	94.5	95.4	95.6	0.78	0.86	0.89	224	
150	143	194	315S/M	458	7.9	2.4	3.3	2.18	20	44	990	77	2980	94.9	95.5	95.6	0.77	0.87	0.89	241	
160	152	206	315S/M	487	7.8	2.1	3.1	2.24	28	61	1035	77	2980	95.0	95.7	95.8	0.77	0.86	0.89	257	
185	176	239	315S/M	564	8.0	2.4	3.3	2.45	22	48	1090	77	2980	95.2	95.8	95.8	0.77	0.86	0.89	297	
220	209	283	315L	670	9.0	2.8	3.5	3.12	23	50	1220	78	2980	95.7	96.1	96.0	0.79	0.88	0.90	349	
280	266	361	315L	851	7.9	2.6	2.8	4.16	22	48	1390	78	2985	95.2	95.8	96.0	0.82	0.89	0.91	439	
315	299	406	355M/L ⁽⁵⁾	958	8.1	2.2	2.6	6.00	23	50	1800	80	2980	95.4	95.9	96.0	0.85	0.91	0.91	494	
330	314	426	355M/L ⁽⁵⁾	1006	8.1	2.4	2.6	6.00	28	61	1840	80	2980	95.1	95.7	96.0	0.85	0.91	0.91	517	
355	337	457	355M/L ⁽⁵⁾	1078	8.3	2.3	3.0	6.00	14	30	1840	80	2985	95.1	95.7	95.8	0.85	0.91	0.91	558	
370	352	478	355A/B ⁽⁵⁾	1126	8.3	2.6	3.0	6.76	40	88	2046	83	2985	95.5	96.2	96.4	0.83	0.90	0.90	584	

Notes:

(5) Fitted with air deflector in the drive end side.

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) * 9555 / n (rpm)$.

W22 Marine Motors - Premium Efficiency - IE3 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C			Rated Output 45°C*			380 V						460 V (60Hz)							
						Rated speed (rpm)	% of full load			Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load			Full load current In (A)			
							Efficiency		Power factor				Efficiency		Power factor				
kW	kW	HP		50	75	100	50	75	100			50	75	100	50	75	100		
II pole																			
0.12	0.12	0.16	2795	59.0	60.8	60.8	0.58	0.71	0.79	0.38	56	3430	55.0	62.0	62.0	0.54	0.65	0.73	0.33
0.18	0.18	0.25	2790	62.6	65.9	65.9	0.57	0.70	0.79	0.53	56	3430	57.5	64.0	65.6	0.54	0.66	0.74	0.47
0.25	0.25	0.33	2780	64.6	68.7	69.7	0.59	0.73	0.81	0.67	56	3415	64.0	68.0	69.5	0.53	0.65	0.74	0.61
0.37	0.37	0.5	2795	73.6	74.3	73.8	0.71	0.82	0.87	0.88	56	3440	70.0	73.4	73.4	0.64	0.76	0.82	0.77
0.55	0.55	0.75	2740	75.6	75.7	77.8	0.73	0.84	0.88	1.22	60	3415	74.0	75.5	76.8	0.66	0.78	0.84	1.07
0.75	0.75	1	2805	80.0	80.5	80.7	0.68	0.80	0.85	1.66	60	3450	75.5	80.0	81.5	0.62	0.74	0.81	1.43
1.1	1.1	1.5	2810	82.0	83.7	83.1	0.69	0.80	0.85	2.37	62	3450	78.5	81.5	84.0	0.62	0.74	0.81	2.03
1.5	1.5	2	2860	83.7	85.0	84.4	0.69	0.80	0.85	3.18	62	3485	80.0	82.5	85.5	0.64	0.75	0.82	2.69
2.2	2.2	3	2855	86.5	86.4	85.9	0.70	0.81	0.86	4.52	68	3480	84.0	85.5	86.5	0.64	0.76	0.83	3.85
3	3	4	2900	86.0	87.4	87.1	0.75	0.84	0.88	5.90	68	3510	82.5	86.5	88.5	0.68	0.79	0.85	5.01
4	4	5.5	2890	88.0	88.2	88.2	0.73	0.83	0.88	7.80	71	3505	85.5	87.5	88.5	0.67	0.79	0.85	6.67
5.5	5.5	7.5	2925	87.6	88.9	89.2	0.71	0.82	0.87	10.8	69	3540	84.7	87.6	89.5	0.65	0.77	0.83	9.29
7.5	7.5	10	2926	89.2	90.1	90.1	0.73	0.83	0.88	14.4	72	3540	86.9	89.3	90.2	0.67	0.78	0.84	12.4
9.2	9.2	12.5	2920	90.7	91.0	90.8	0.79	0.87	0.90	17.1	72	3530	88.5	90.2	91.0	0.73	0.83	0.87	14.6
11	11	15	2940	90.7	91.2	91.2	0.75	0.84	0.88	20.8	72	3550	88.6	90.6	91.0	0.70	0.80	0.85	17.8
15	15	20	2940	91.0	91.6	91.9	0.72	0.82	0.87	28.5	72	3550	89.7	91.5	91.7	0.66	0.78	0.84	24.4
18.5	17.6	23.9	2945	91.6	92.5	92.4	0.71	0.83	0.87	33.2	72	3555	90.4	92.0	92.4	0.65	0.78	0.83	28.7
22	20.9	28.4	2945	92.1	92.8	92.7	0.72	0.83	0.87	39.3	72	3555	91.1	92.4	92.4	0.66	0.78	0.83	34.2
30	30	40	2960	92.6	93.2	93.3	0.75	0.83	0.87	56.2	76	3570	90.8	92.6	93.0	0.69	0.79	0.84	48.2
37	37	50	2960	93.0	93.6	93.7	0.75	0.84	0.87	69.0	76	3570	91.5	93.0	93.0	0.69	0.79	0.84	59.4
45	42.8	58	2960	93.5	94.1	94.0	0.79	0.88	0.90	76.7	79	3565	92.9	93.7	93.6	0.74	0.85	0.88	65.1
55	55	75	2960	93.8	94.3	94.3	0.80	0.87	0.90	98.5	79	3565	92.2	93.7	93.8	0.75	0.84	0.88	83.6
75	75	100	2975	93.9	94.7	94.7	0.81	0.87	0.89	135	79	3580	91.8	93.6	94.1	0.77	0.85	0.88	114
90	90	125	2975	94.5	95.0	95.0	0.83	0.88	0.90	160	81	3580	92.8	94.7	95.0	0.79	0.86	0.89	134
110	110	150	2975	94.6	95.4	95.4	0.81	0.87	0.89	197	81	3580	92.8	94.4	95.0	0.77	0.85	0.88	165
132	132	175	2975	94.7	95.5	95.6	0.81	0.87	0.90	233	81	3580	92.9	94.5	95.4	0.77	0.85	0.88	197
150	143	194	2975	94.9	95.6	95.6	0.81	0.89	0.90	251	81	3580	93.3	94.8	95.4	0.76	0.86	0.89	210
160	152	206	2980	95.1	95.8	95.8	0.80	0.88	0.90	267	81	3580	93.5	95.0	95.5	0.76	0.86	0.89	224
185	176	239	2975	95.3	95.8	95.8	0.80	0.88	0.90	309	81	3575	94.1	95.4	95.8	0.79	0.87	0.90	255
220	209	283	2980	95.8	96.1	96.0	0.81	0.89	0.91	363	84	3580	94.8	95.7	95.8	0.77	0.87	0.90	304
280	266	361	2975	95.8	96.1	96.0	0.85	0.91	0.91	462	84	3580	95.7	96.2	96.2	0.80	0.89	0.91	381
315	299	406	2980	95.0	95.8	96.0	0.87	0.92	0.92	514	84	3580	95.9	96.3	96.2	0.83	0.90	0.91	429
330	314	426	2980	95.2	95.8	96.0	0.88	0.92	0.91	545	84	3585	94.6	95.3	95.7	0.86	0.92	0.93	443
355	337	457	2980	95.0	95.6	95.8	0.87	0.92	0.91	587	84	3585	93.8	95.0	95,7 ⁽⁴⁾	0.83	0.91	0.92	480
370	352	478	2980	95.5	96.1	96.2	0.84	0.90	0.91	610	84	3585	94.1	95.1	95,7 ⁽⁴⁾	0.87	0.92	0.92	501

Notes:

(4) Motors do not comply with IE3 (60Hz) efficiency values from IEC 60034-30-1 at 45°C. According to the standard they comply with IE2.

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).



W22 Marine Motors - Premium Efficiency - IE3 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*		Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque TI/Tn	Breakdown torque Tb/Tn	Inertia J (kgm ²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V							Full load current In (A)
													Rated speed (rpm)	% of full load						
														Efficiency			Power factor			
														50	75	100	50	75	100	
IV pole																				
0.12	0.12	0.16	63	0.84	4.4	2.1	2.3	0.0004	30	66	5.2	44	1370	57.0	63.0	64.8	0.52	0.62	0.73	0.37
0.18	0.18	0.25	63	1.26	4.7	2.1	2.4	0.0006	30	66	7.2	44	1370	65.0	67.0	69.9	0.53	0.63	0.72	0.52
0.25	0.25	0.33	71	1.72	4.8	2.3	2.3	0.0009	30	66	8.0	43	1390	69.0	72.0	73.5	0.52	0.65	0.72	0.68
0.37	0.37	0.5	71	2.55	4.8	2.8	2.9	0.0008	30	66	9.5	43	1385	73.0	75.0	77.3	0.50	0.62	0.70	0.99
0.55	0.55	0.75	80	3.70	6.6	2.9	3.2	0.0027	20	44	12.5	44	1420	77.0	79.0	80.8	0.61	0.74	0.80	1.23
0.75	0.75	1	80	5.05	6.7	3.0	3.3	0.0032	18	40	14.5	44	1420	80.0	82.0	82.5	0.59	0.72	0.81	1.62
1.1	1.1	1.5	90S	7.22	7.6	2.5	3.3	0.0055	15	33	19.5	49	1455	83.0	84.5	84.5	0.59	0.72	0.80	2.35
1.5	1.5	2	90L	9.88	7.4	2.6	3.4	0.0066	13	29	23.0	49	1450	84.0	86.0	85.5	0.58	0.72	0.80	3.17
2.2	2.2	3	100L	14.7	7.4	3.2	3.5	0.0090	18	40	31.5	53	1435	86.5	87.0	87.0	0.60	0.73	0.80	4.56
3	3	4	L100L	19.9	7.8	3.5	3.7	0.0120	15	33	37.5	53	1440	87.0	88.0	88.0	0.60	0.73	0.80	6.15
4	4	5.5	112M	26.4	7.0	2.3	3.1	0.0180	15	33	44.0	56	1450	88.7	89.1	88.8	0.62	0.74	0.81	8.03
5.5	5.5	7.5	132S	36.0	8.3	2.1	3.3	0.0491	12	26	66.0	56	1460	89.0	89.6	89.7	0.69	0.80	0.85	10.4
7.5	7.5	10	132M	49.1	8.3	2.4	3.5	0.0563	7	15	74.0	56	1460	90.5	90.8	90.6	0.69	0.80	0.86	13.9
9.2	9.2	12.5	132M/L	60.0	8.6	2.8	3.5	0.0698	10	22	82.0	56	1465	90.3	91.0	91.0	0.64	0.76	0.82	17.4
11	11	15	160M	71.5	7.5	2.8	3.2	0.1191	11	24	113	61	1470	91.1	91.8	91.6	0.65	0.77	0.83	20.9
15	15	20	160L	97.8	7.2	2.8	3.1	0.1534	8	18	135	61	1465	92.2	92.5	92.3	0.67	0.78	0.84	27.9
18.5	18.5	25	180M	120	7.4	3.0	3.2	0.1740	13	29	168	61	1470	92.2	92.8	92.8	0.64	0.76	0.82	35.1
22	22	30	180L	143	7.3	3.4	3.4	0.2097	11	24	185	61	1470	92.3	93.0	93.2	0.66	0.77	0.83	41.0
30	28	38.8	200L	184	7.8	3.0	3.3	0.3202	12	26	228	63	1480	92.7	93.6	93.7	0.61	0.74	0.80	54.8
37	37	50	225S/M	239	7.7	2.8	3.3	0.5177	13	29	365	63	1480	93.4	94	94.1	0.7	0.8	0.85	66.0
45	42.8	58	225S/M	277	7.9	2.9	3.2	0.67	14	30	400	63	1475	93.3	94.2	94.4	0.69	0.80	0.85	76.9
55	55	75	250S/M	355	7.5	2.8	3.0	1.05	14	31	440	64	1480	94.3	94.7	94.7	0.69	0.8	0.85	98.6
75	75	100	280S/M	483	7.5	2.2	2.9	2.09	30	66	630	69	1485	94.5	95.1	95.2	0.72	0.82	0.85	134
90	90	125	280S/M	579	7.0	2.2	2.7	2.17	30	66	700	69	1485	94.9	95.4	95.4	0.75	0.83	0.86	158
110	110	150	315S/M	705	7.4	2.2	2.6	2.89	33	73	950	71	1490	94.7	95.5	95.6	0.74	0.82	0.86	193
132	132	175	315S/M	846	7.5	2.3	2.7	3.79	30	66	1010	71	1490	95.1	95.7	95.8	0.74	0.82	0.86	231
150	150	200	315S/M	962	7.8	2.7	2.7	3.77	27	59	1030	71	1490	95.4	95.8	95.9	0.71	0.81	0.85	266
160	160	220	315S/M	1026	7.7	2.6	2.7	3.99	28	62	1080	71	1490	95.2	95.9	96	0.74	0.82	0.86	280
185	185	250	315S/M	1186	7.8	2.7	2.9	4.42	25	55	1150	71	1490	95.5	96.1	96	0.71	0.8	0.85	327
220	209	284	315L	1340	8.3	3.0	3.0	5.30	12	26	1340	73	1490	95.5	96.2	96.2	0.70	0.81	0.85	368
250	238	323	315L	1526	8.3	3.1	2.8	5.74	19	41	1430	73	1490	95.8	96.3	96.2	0.71	0.82	0.86	414
260	247	335	315L	1584	8.3	3.1	2.8	6.40	19	41	1430	73	1490	95.8	96.3	96.2	0.71	0.82	0.86	430
280	266	361	355M/L	1705	7.7	2.5	2.7	9.66	20	44	1600	74	1490	95.6	96.1	96.2	0.72	0.83	0.86	464
315	299	406	355M/L	1917	8.3	2.6	2.7	9.46	17	37	1750	74	1490	95.9	96.4	96.3	0.70	0.81	0.85	527
355	337	457	355M/L ⁽⁵⁾	2161	7.6	2.5	2.6	11.58	15	33	1878	74	1490	96.5	96.8	96.6	0.72	0.83	0.86	585
400	380	516	355A/B ⁽⁵⁾	2436	7.9	2.7	3.1	13.22	20	44	2089	76	1490	95.5	96.1	96.2	0.66	0.78	0.83	686

Notes:

(5) Fitted with air deflector in the drive end side.

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) * 9555 / n (rpm)$.

W22 Marine Motors - Premium Efficiency - IE3 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C			Rated Output 45°C*			380 V						460 V (60Hz)						Full load current In (A)				
						Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						
							Efficiency			Power factor						Efficiency			Power factor			
							50	75	100	50	75	100				50	75		100	50	75	100
kW	kW	HP																				
0.12	0.12	0.16	1355	58.6	64.0	64.8	0.56	0.69	0.76	0.37	48	1710	57.5	64.0	66.0	0.50	0.62	0.71	0.32			
0.18	0.18	0.25	1355	65.0	67.0	69.9	0.57	0.67	0.75	0.52	48	1705	62.0	66.0	69.5	0.50	0.60	0.69	0.47			
0.25	0.25	0.33	1375	67.0	69.1	73.5	0.56	0.69	0.75	0.69	48	1720	70.0	72.0	73.4	0.47	0.60	0.69	0.62			
0.37	0.37	0.5	1370	73.0	75.0	77.3	0.53	0.64	0.72	1.01	47	1710	70.0	75.0	78.2	0.47	0.58	0.67	0.89			
0.55	0.55	0.75	1410	78.0	79.1	80.8	0.65	0.77	0.83	1.25	47	1720	77.0	80.0	81.1	0.60	0.73	0.78	1.09			
0.75	0.75	1	1410	80.8	82.0	82.5	0.64	0.75	0.83	1.66	48	1720	78.5	80.0	84.0	0.58	0.71	0.79	1.43			
1.1	1.1	1.5	1450	84.0	84.7	84.3	0.64	0.76	0.83	2.39	51	1760	80.0	84.0	86.5	0.57	0.70	0.78	2.05			
1.5	1.5	2	1445	85.0	86.2	85.6	0.63	0.76	0.83	3.21	51	1755	82.5	85.5	86.5	0.56	0.69	0.78	2.79			
2.2	2.2	3	1430	87.2	87.1	86.7	0.65	0.77	0.83	4.64	51	1745	84.0	86.5	89.5	0.58	0.71	0.78	3.96			
3	3	4	1430	87.7	88.0	87.7	0.65	0.77	0.83	6.26	54	1740	84.0	86.5	89.5	0.59	0.71	0.79	5.33			
4	4	5.5	1445	89.3	89.0	88.6	0.67	0.78	0.83	8.26	54	1755	87.5	89.5	89.5	0.60	0.72	0.79	7.10			
5.5	5.5	7.5	1460	89.0	89.6	89.6	0.73	0.83	0.87	10.7	56	1765	90.2	91.0	91.7	0.66	0.78	0.84	8.96			
7.5	7.5	10	1460	90.0	90.2	90.4	0.71	0.82	0.87	14.5	58	1770	90.1	91.2	91.7	0.65	0.77	0.83	12.4			
9.2	9.2	12.5	1460	91.0	91.1	91.0	0.69	0.80	0.85	17.7	58	1770	89.5	91.0	91.7	0.62	0.75	0.81	15.2			
11	11	15	1470	91.7	91.4	91.4	0.69	0.80	0.85	21.5	58	1775	91.0	92.2	92.4	0.62	0.75	0.81	18.4			
15	15	20	1465	92.4	92.4	92.1	0.70	0.80	0.85	29.1	64	1775	92.0	92.9	93.0	0.63	0.75	0.82	24.7			
18.5	18.5	25	1470	92.7	92.6	92.6	0.69	0.79	0.84	36.1	64	1775	92.0	93.0	93.6	0.62	0.74	0.81	30.6			
22	22	30	1470	92.5	92.8	93.0	0.70	0.81	0.85	42.3	64	1775	92.1	93.2	93.6	0.64	0.76	0.82	36.0			
30	28	38.8	1475	93.1	93.7	93.6	0.66	0.78	0.83	55.7	66	1780	92.3	93.7	94.1	0.60	0.73	0.79	48.1			
37	37	50	1480	93.7	93.9	93.9	0.74	0.83	0.86	69.6	66	1780	92.6	94	94.5	0.68	0.79	0.84	58.5			
45	42.8	58	1475	93.40	94.2	94.2	0.73	0.83	0.87	79.2	67	1780	93.0	94.2	94.5 ⁽⁴⁾	0.67	0.79	0.84	67.5			
55	55	75	1480	94.5	94.6	94.7	0.73	0.82	0.86	103	67	1785	93.8	94.7	95.4	0.67	0.78	0.83	87.2			
75	75	100	1485	94.7	94.9	95	0.75	0.83	0.86	139	68	1790	93.8	94.7	95.4	0.7	0.8	0.84	117			
90	90	125	1480	95.2	95.4	95.2	0.77	0.84	0.87	165	73	1785	94.4	95.3	95.4	0.72	0.81	0.85	139			
110	110	150	1489	95	95.5	95.5	0.78	0.85	0.87	201	73	1795	93.7	95	95.8	0.73	0.82	0.85	170			
132	132	175	1490	95.3	95.6	95.6	0.77	0.84	0.87	241	75	1790	94.2	95.3	96.2	0.72	0.81	0.85	203			
150	150	200	1490	95.4	95.8	95.9	0.76	0.84	0.87	273	75	1790	94.6	95.7	96.2	0.71	0.81	0.85	230			
160	160	220	1490	95.7	95.8	95.8	0.77	0.84	0.87	292	75	1790	94.7	95.7	96.2	0.72	0.81	0.85	246			
185	185	250	1490	95.8	96	96	0.75	0.83	0.86	340	75	1790	94.8	95.8	96.2	0.69	0.79	0.84	287			
220	209	284	1490	95.9	96.4	96.3	0.72	0.83	0.87	379	78	1790	95.1	96.0	96.2	0.68	0.80	0.84	324			
250	238	323	1490	95.5	96.1	96.2	0.75	0.84	0.87	431	78	1790	95.4	96.1	96.2	0.70	0.81	0.85	364			
260	247	335	1490	95.5	96.1	96.2	0.75	0.84	0.87	448	78	1790	94.9	95.8	96.1	0.70	0.81	0.86	375			
280	266	361	1490	95.5	96.1	96.2	0.75	0.84	0.87	482	78	1790	95.3	96.0	96.2	0.70	0.81	0.85	408			
315	299	406	1490	95.7	96.0	96.0	0.73	0.83	0.86	550	78	1790	95.5	96.1	96.2	0.73	0.83	0.86	453			
355	337	457	1490	96.0	96.4	96.5	0.77	0.85	0.87	610	78	1790	95.4	96.0	96.2	0.72	0.83	0.86	511			
400	380	516	1490	95.9	96.2	96.1	0.70	0.81	0.86	698	78	1790	94.7	95.8	96.1 ⁽⁴⁾	0.63	0.76	0.82	605			

Notes:

(4) Motors do not comply with IE3 (60Hz) efficiency values from IEC 60034-30-1 at 45°C. According to the standard they comply with IE2.

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - Premium Efficiency - IE3 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*		Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque TI/Tn	Breakdown torque Tb/Tn	Inertia J (kgm ²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V							
									Hot	Cold			Rated speed (rpm)	% of full load			Full load current In (A)			
														Efficiency				Power factor		
kW	kW	HP											50	75	100	50	75	100		
VI pole																				
0.12	0.12	0.16	63	1.27	3.1	1.8	2.1	0.0007	30	66	7.7	43	905	50.0	55.0	57.7	0.44	0.53	0.62	0.48
0.18	0.18	0.25	71	1.91	3.2	2.0	2.1	0.0009	30	66	11.5	43	900	56.0	62.0	63.9	0.38	0.48	0.57	0.71
0.25	0.25	0.33	80	2.50	4.3	1.7	2.4	0.0000	25	55	12.0	43	955	63.6	68.5	68.8	0.47	0.60	0.71	0.74
0.37	0.37	0.5	80	3.82	4.5	1.9	2.1	0.0025	25	55	12.5	43	925	66.0	69.5	73.5	0.51	0.65	0.75	0.97
0.55	0.55	0.75	L80	5.56	5.1	2.9	3.1	0.0037	20	44	15.5	43	945	70.5	75.2	77.2	0.45	0.58	0.69	1.49
0.75	0.75	1	L90S	7.62	5.2	2.5	2.8	0.0060	31	68	22.0	45	940	76.5	79.0	79.0	0.49	0.62	0.71	1.93
1.1	1.1	1.5	L90L	11.1	5.5	2.5	2.8	0.0077	20	44	26.0	45	945	79.3	81.4	81.0	0.50	0.64	0.73	2.69
1.5	1.5	2	100L	15.1	5.5	2.3	2.8	0.0143	31	68	32.0	44	950	81.5	82.5	82.5	0.49	0.62	0.71	3.70
2.2	2.2	3	112M	22.1	6.0	2.5	2.6	0.0257	26	57	46.0	52	950	83.0	84.5	84.5	0.53	0.64	0.72	5.22
3	3	4	132S	29.7	5.8	1.8	2.6	0.0416	40	88	65.0	53	965	85.0	85.6	85.8	0.53	0.66	0.73	6.91
4	4	5.5	132M	39.6	6.1	1.9	2.7	0.0492	25	55	70.0	53	965	86.0	86.8	86.8	0.53	0.66	0.73	9.11
5.5	5.5	7.5	132M/L	54.5	7.0	2.5	2.8	0.0755	26	57	78.0	53	965	86.5	88.0	88.0	0.50	0.64	0.70	12.9
7.5	7.5	10	160M	73.5	6.3	2.2	2.7	0.1404	16	35	118	56	975	88.5	89.3	89.3	0.64	0.76	0.82	14.8
9.2	9.2	12.5	160L	90.2	6.5	2.3	2.9	0.1756	18	40	135	56	975	90.0	90.6	90.0	0.64	0.75	0.81	18.2
11	11	15	160L	108	7.1	2.8	3.2	0.1931	12	26	140	56	975	89.0	90.1	90.5	0.60	0.73	0.80	21.9
15	15	20	180L	147	7.7	2.6	3.2	0.2970	8	18	185	56	975	91.5	91.5	91.4	0.68	0.79	0.84	28.2
18.5	18.5	25	200L	180	6.3	2.4	2.8	0.3510	16	35	215	60	980	91.0	91.7	91.9	0.63	0.75	0.81	35.9
22	22	30	200L	215	6.4	2.4	2.8	0.4212	15	33	225	60	980	91.4	92.0	92.4	0.64	0.76	0.81	42.4
30	30	40	225S/M	291	7.5	2.4	2.8	0.8194	15	33	380	63	985	93.0	93.4	93.1	0.69	0.80	0.84	55.4
37	37	50	250S/M	359	7.2	2.4	2.7	1.24	20	44	430	64	985	93.3	93.5	93.5	0.72	0.81	0.85	67.2
45	45	60	280S/M	437	6.4	2.1	2.7	2.35	28	62	640	65	985	93.9	93.9	93.9	0.67	0.77	0.82	84.4
55	55	75	280S/M	534	6.8	2.3	2.8	2.69	24	53	665	65	985	94.0	94.2	94.3	0.66	0.77	0.82	103
75	75	100	315S/M	724	6.3	2.0	2.5	4.35	37	81	920	67	990	94.6	94.9	94.9	0.67	0.77	0.82	139
90	90	125	315S/M	869	6.4	2.2	2.5	5.42	35	77	990	67	990	95.1	95.5	95.1	0.68	0.78	0.83	165
110	110	150	315S/M	1062	6.2	2.1	2.4	6.15	31	68	1040	67	990	95.4	95.6	95.3	0.70	0.80	0.83	201
132	132	175	315S/M	1274	7.2	2.6	2.7	7.23	25	55	1100	67	990	95.4	95.8	95.6	0.67	0.77	0.82	243
150	143	194	315L	1380	6.8	2.4	2.6	7.95	25	55	1200	68	990	95.3	95.8	95.7	0.65	0.77	0.82	262
200	190	258	355M/L	1833	6.4	2.3	2.4	10.41	39	85	1620	73	990	95.4	96.0	95.9	0.64	0.75	0.80	357
220	209	284	355M/L	2007	6.8	2.1	2.3	12.01	36	79	1710	73	995	95.4	96.0	96.0	0.61	0.73	0.78	402
250	238	323	355M/L	2297	6.7	2.3	2.4	13.86	38	83	1830	73	990	95.5	96.0	95.9	0.62	0.74	0.79	452
280	266	361	355M/L	2554	5.7	2.0	2.3	15.02	38	83	1970	73	995	94.5	95.4	95.8	0.62	0.74	0.79	507
300	285	387	355M/L	2750	6.0	2.0	2.1	14.99	25	55	2493	73	990	95.6	96.1	96.0	0.61	0.73	0.79	542
315	299	406	355M/L ⁽⁵⁾	2885	6.4	2.2	2.2	15.02	25	55	2493	73	990	95.1	95.7	95.8	0.64	0.75	0.80	563
370	352	478	355A/B ⁽⁶⁾	3397	6.2	2.3	2.4	18.00	25	55	2300	73	990	95.2	95.8	95.9	0.61	0.73	0.78	678
400	387	516	355A/B ⁽⁶⁾	3667	6.3	2.1	2.4	18.92	29	63	2346	73	990	95.2	95.8	95.9	0.61	0.73	0.78	733

Notes:

(5) Fitted with air deflector in the drive end side.

(6) Motor with class F (105K) temperature rise.

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) * 9555 / n (rpm)$.

W22 Marine Motors - Premium Efficiency - IE3 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	
kW	kW	HP																		
VI pole																				
0.12	0.12	0.16	890	48.7	54.7	57.7	0.47	0.56	0.66	0.48	47	1120	52.0	59.0	64.0	0.40	0.50	0.57	0.41	
0.18	0.18	0.25	885	57.7	62.8	63.9	0.43	0.55	0.64	0.67	47	1110	57.5	59.5	67.5	0.35	0.44	0.53	0.63	
0.25	0.25	0.33	950	65.9	68.0	68.6	0.51	0.64	0.74	0.75	47	1165	64.1	70.5	71.4	0.43	0.55	0.65	0.68	
0.37	0.37	0.5	915	67.6	69.9	73.5	0.55	0.69	0.79	0.97	47	1140	66.0	70.0	75.3	0.47	0.60	0.70	0.88	
0.55	0.55	0.75	940	73.4	76.7	77.2	0.49	0.63	0.73	1.48	47	1155	71.9	77.0	80 ⁽⁴⁾	0.42	0.54	0.64	1.35	
0.75	0.75	1	930	77.5	79.2	78.9	0.53	0.66	0.74	1.95	49	1145	77.0	80.0	82.5	0.47	0.60	0.69	1.65	
1.1	1.1	1.5	940	81.0	82.0	81.0	0.55	0.69	0.77	2.68	48	1150	80.0	82.9	83,5 ⁽³⁾	0.47	0.61	0.70	2.36	
1.5	1.5	2	945	82.3	82.6	82.5	0.53	0.66	0.74	3.73	52	1155	82.5	85.5	86,5 ⁽⁴⁾	0.48	0.61	0.69	3.15	
2.2	2.2	3	945	83.6	84.4	84.3	0.57	0.68	0.75	5.29	52	1155	82.5	85.5	87,5 ⁽⁴⁾	0.50	0.62	0.71	4.44	
3	3	4	960	85.0	85.8	85.8	0.57	0.69	0.76	6.99	55	1170	85.5	87.7	89.5	0.50	0.63	0.71	5.93	
4	4	5.5	960	86.3	86.8	86.8	0.57	0.70	0.76	9.21	55	1170	86.2	88.2	89.5	0.50	0.63	0.71	7.90	
5.5	5.5	7.5	960	87.4	88.3	88.0	0.55	0.68	0.75	12.7	55	1170	85.5	88.5	91.0	0.48	0.61	0.70	10.8	
7.5	7.5	10	970	88.9	89.0	89.1	0.68	0.79	0.84	15.2	55	1180	87.9	89.5	91.0	0.61	0.73	0.80	12.9	
9.2	9.2	12.5	970	89.5	90.0	90.0	0.68	0.78	0.83	18.7	59	1180	88.5	90.2	91.7	0.60	0.73	0.80	15.7	
11	11	15	975	89.7	90.3	90.3	0.65	0.77	0.83	22.3	59	1180	88.6	90.4	91.7	0.58	0.71	0.78	19.3	
15	15	20	975	90.7	91.0	91.2	0.72	0.81	0.86	29.1	59	1180	91.4	92.1	91.7	0.66	0.77	0.83	24.9	
18.5	18.5	25	980	91.0	91.7	91.7	0.68	0.78	0.83	36.9	59	1180	90.9	92.1	93.0	0.61	0.73	0.80	31.2	
22	22	30	980	92.0	92.2	92.2	0.69	0.79	0.84	43.2	62	1185	91.4	92.5	93.0	0.62	0.74	0.80	37.1	
30	30	40	985	93.3	93.3	92.9	0.73	0.82	0.86	57.1	62	1190	92.7	93.6	94.1	0.67	0.78	0.83	48.2	
37	37	50	980	93.3	93.3	93.3	0.75	0.83	0.87	69.3	66	1185	93.0	94.1	94.1	0.69	0.80	0.84	58.8	
45	45	60	985	93.7	93.8	93.8	0.70	0.80	0.83	87.8	68	1190	93.0	94.1	94.5	0.64	0.75	0.81	73.8	
55	55	75	985	94.0	94.2	94.2	0.70	0.79	0.83	107	68	1190	93.0	94.5	94.5	0.64	0.75	0.81	90.2	
75	75	100	990	94.6	94.8	94.8	0.71	0.80	0.83	145	69	1190	93.6	95.0	95.0	0.65	0.76	0.81	122	
90	90	125	990	95.0	95.1	95.1	0.72	0.80	0.84	171	69	1190	94.7	95.4	95.4	0.66	0.76	0.81	146	
110	110	150	990	94.8	95.0	95.1	0.74	0.82	0.84	209	70	1190	95.0	95.6	95.8	0.68	0.78	0.83	174	
132	132	175	990	95.4	95.8	95.6	0.69	0.79	0.84	250	70	1195	95.1	95.8	95.8	0.64	0.75	0.81	214	
150	143	194	990	95.3	95.7	95.7	0.67	0.79	0.84	269	70	1195	94.4	95.4	95.7	0.63	0.76	0.81	232	
200	190	258	990	95.6	96.0	95.9	0.68	0.79	0.82	367	77	1195	94.9	95.7	95.8	0.62	0.74	0.79	315	
220	209	284	995	95.3	95.9	96.0	0.63	0.75	0.80	413	77	1195	94.9	95.7	95.8	0.56	0.69	0.75	365	
250	238	323	990	95.6	95.9	95.8	0.66	0.77	0.80	470	77	1190	95.2	95.8	95.8	0.60	0.72	0.77	404	
280	266	361	990	95.6	96.1	96.0	0.66	0.77	0.81	519	77	1195	94.6	95.7	96.0	0.60	0.72	0.78	445	
300	285	387	990	95.6	96.1	96.0	0.63	0.75	0.81	556	77	1195	95.3	96.0	96.1	0.59	0.71	0.77	483	
315	299	406	990	95.7	96.2	96.1	0.66	0.77	0.81	584	77	1195	95.0	95.8	95.8	0.63	0.75	0.80	490	
370	352	478	990	95.4	95.9	95.8	0.63	0.75	0.80	696	77	1190	95.3	96.0	96.1	0.65	0.76	0.81	566	
400	38	516	990	95.5	96.0	95.9	0.65	0.76	0.81	743	77	1190	94.9	95.7	95.8	0.58	0.71	0.77	646	

Notes:

(3) Motors do not comply with IE3 (60Hz) efficiency values from IEC 60034-30-1 at 45°C. According to the standard they comply with IE1.

(4) Motors do not comply with IE3 (60Hz) efficiency values from IEC 60034-30-1 at 45°C. According to the standard they comply with IE2.

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - Premium Efficiency - IE3 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*		Frame	Full load torque (Nm)**	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								
									Rated speed (rpm)	% of full load						Full load current I _n (A)					
										Efficiency			Power factor								
										50			75	100	50		75	100			
kW	kW	HP						Hot	Cold												
VIII pole																					
0.12	0.12	0.16	71	1.76	2.4	1.8	2.0	0.0009	30	66	11.5	41	650	44.0	50.0	52.5	0.35	0.43	0.50	0.66	
0.18	0.18	0.25	80	2.53	3.3	2.0	2.2	0.0029	30	66	13.5	42	680	51.0	57.0	58.7	0.45	0.55	0.65	0.68	
0.25	0.25	0.33	80	3.49	3.5	2.0	2.2	0.0034	30	66	14.5	42	685	53.0	60.0	64.1	0.42	0.52	0.63	0.89	
0.37	0.37	0.5	90S	5.12	3.7	2.0	2.3	0.0055	30	66	19.0	43	690	61.0	66.0	69.3	0.41	0.53	0.62	1.24	
0.55	0.55	0.75	90L	7.62	3.8	1.9	2.2	0.0066	29	64	23.0	43	690	65.0	70.0	73.0	0.44	0.57	0.67	1.62	
0.75	0.75	1	100L	10.1	4.6	1.9	2.3	0.0127	30	66	30.5	50	710	72.5	75.5	75.5	0.41	0.53	0.62	2.31	
1.1	1.1	1.5	100L	14.8	4.6	2.1	2.4	0.0143	30	66	33.0	50	710	73.0	76.0	77.7	0.41	0.53	0.62	3.30	
1.5	1.5	2	112M	20.3	5.0	2.5	2.8	0.0238	28	62	43.0	46	705	79.0	79.5	79.9	0.45	0.59	0.68	3.98	
2.2	2.2	3	132S	29.6	6.2	2.3	2.5	0.0690	27	59	69.0	48	710	81.5	82.0	82.1	0.51	0.65	0.72	5.37	
3	3	4	132M	40.4	6.4	2.4	2.6	0.0838	21	46	75.0	48	710	82.5	83.5	83.5	0.51	0.64	0.72	7.20	
4	3.8	5.2	160M	50.0	5.2	2.2	2.4	0.1229	34	74	114	51	725	84.4	86.1	86.1	0.50	0.63	0.71	8.97	
5.5	5.2	7.1	160M	68.9	5.2	2.2	2.4	0.1492	28	61	123	51	725	85.4	87.4	87.4	0.50	0.64	0.72	11.9	
7.5	7.1	9.7	160L	93.3	5.5	2.3	2.6	0.2199	22	48	145	51	730	86.5	88.3	88.5	0.50	0.64	0.72	16.1	
9.2	8.7	11.8	180M	115	6.2	2.1	2.7	0.2575	15	33	173	51	725	88.4	89.6	89.6	0.61	0.74	0.81	17.3	
11	10.5	14.3	180L	138	6.8	2.4	2.8	0.2846	12	26	185	51	725	89.0	90.2	90.1	0.54	0.66	0.75	22.3	
15	14.3	19.4	200L	187	5.0	2.0	2.2	0.4571	34	74	220	56	730	88.5	89.7	89.8	0.54	0.67	0.73	31.3	
18.5	18.5	25	225S/M	241	6.5	1.7	2.5	0.8219	28	62	377	56	735	89.8	90.3	90.3	0.63	0.75	0.81	36.5	
22	22	30	225S/M	286	6.5	1.8	2.5	0.9574	22	48	402	56	735	90.3	90.8	90.8	0.63	0.75	0.81	43.2	
30	30	40	250S/M	390	7.4	1.9	2.8	1.43	18	40	490	56	735	91.0	91.5	91.5	0.66	0.77	0.83	57.0	
37	37	50	280S/M	478	6.0	1.8	2.3	2.82	32	70	673	59	740	91.5	92.0	92.0	0.63	0.73	0.79	73.5	
45	45	60	280S/M	581	6.0	1.8	2.2	3.49	30	66	720	59	740	92.2	92.4	92.4	0.63	0.73	0.79	89.0	
55	55	75	315S/M	710	6.0	1.7	2.2	5.11	40	88	960	62	740	92.2	92.7	92.7	0.65	0.75	0.80	107	
75	75	100	315S/M	968	6.0	1.8	2.2	6.56	40	88	1025	62	740	92.8	93.3	93.3	0.65	0.75	0.80	145	
90	90	125	315S/M	1162	6.0	1.9	2.2	7.84	40	88	1100	62	740	93.1	93.6	93.6	0.65	0.75	0.80	173	
110	105	142	315L	1355	6.2	2.0	2.3	9.46	35	77	1367	68	740	93.3	93.9	93.9	0.62	0.74	0.78	205	
132	125	170	355M/L	1603	6.4	1.4	2.4	14.08	48	105	1587	70	745	93.6	94.2	94.2	0.62	0.74	0.78	246	
160	152	206	355M/L	1949	6.6	1.4	2.4	17.39	56	123	1747	70	745	93.9	94.5	94.5	0.62	0.74	0.79	293	
185	176	239	355M/L	2257	6.6	1.4	2.4	18.52	56	123	1819	70	745	95.3	95.9	96.0	0.62	0.74	0.79	334	
200	190	258	355M/L	2436	6.5	1.4	2.4	18.92	56	123	1891	70	745	94.2	94.8	94.8	0.63	0.75	0.80	361	
220	220	300	355M/L	2822	7.2	1.8	2.5	19.80	30	66	2020	70	745	94.8	95.6	95.6	0.65	0.76	0.80	415	
280	266	361	355A/B [®]	3411	7.8	2.1	3.0	25.03	44	97	2279	70	745	94.9	95.7	95.8	0.59	0.72	0.78	513	

Notes:

(5) Fitted with air deflector in the drive end side.

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) * 9555 / n (rpm)$.

W22 Marine Motors - Premium Efficiency - IE3 - Ambient Temperature 45°C - Temperature Rise 75K

Rated Output 40°C	Rated Output 45°C*			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	

VIII pole

0.12	0.12	0.16	635	46.6	51.7	52.9	0.38	0.46	0.54	0.64	45	825	46.0	52.5	59.5	0.30	0.37	0.46	0.51
0.18	0.18	0.25	670	52.8	58.0	58.7	0.48	0.59	0.69	0.68	46	830	50.5	60.0	64.0	0.38	0.48	0.59	0.60
0.25	0.25	0.33	695	54.0	60.0	64.1	0.44	0.57	0.67	0.88	46	860	67.5	68.0	68.5	0.37	0.48	0.57	0.80
0.37	0.37	0.5	700	61.0	66.0	69.3	0.44	0.56	0.66	1.23	47	870	66.5	71.5	72.0	0.37	0.47	0.56	1.15
0.55	0.55	0.75	695	65.0	70.0	73.0	0.49	0.62	0.70	1.64	47	860	70.0	73.0	74.0	0.41	0.53	0.62	1.50
0.75	0.75	1	705	73.9	76.1	75.1	0.44	0.57	0.66	2.30	47	860	70.0	74.0	75.5	0.38	0.50	0.59	2.11
1.1	1.1	1.5	700	74.9	76.8	77.7	0.45	0.58	0.66	3.26	54	860	74.0	75.5	78.5	0.38	0.50	0.59	2.98
1.5	1.5	2	700	79.0	79.5	79.7	0.49	0.63	0.71	4.03	54	855	77.0	80.0	84.0	0.44	0.57	0.64	3.50
2.2	2.2	3	705	81.5	81.9	81.9	0.57	0.68	0.76	5.37	52	860	78.5	82.5	85.5	0.49	0.62	0.70	4.61
3	3	4	705	83.4	83.5	83.5	0.56	0.68	0.75	7.28	52	860	80.0	82.5	86.5	0.49	0.62	0.70	6.22
4	3.8	5.2	720	85.4	86.7	86.3	0.54	0.67	0.73	9.16	52	880	83.8	86.1	86.6	0.47	0.61	0.70	7.87
5.5	5.2	7.1	720	86.1	87.5	87.3	0.54	0.67	0.75	12.1	54	880	84.5	86.9	87.4	0.47	0.61	0.69	10.8
7.5	7.1	9.7	725	87.3	88.6	88.6	0.54	0.68	0.75	16.2	54	880	85.6	87.8	88.5	0.47	0.61	0.69	14.6
9.2	8.7	11.8	720	88.7	89.4	89.0	0.65	0.77	0.83	17.9	54	880	88.2	89.5	89.6	0.60	0.73	0.79	15.5
11	10.5	14.3	720	89.5	90.3	89.9	0.58	0.69	0.76	23.2	54	880	88.2	89.5	89.6	0.57	0.70	0.78	18.7
15	14.3	19.4	730	90.1	91.1	91.0	0.58	0.70	0.75	31.7	54	885	89.1	90.3	90.3	0.53	0.66	0.73	27.1
18.5	18.5	25	730	89.8	90.1	90.1	0.67	0.78	0.83	37.6	56	885	89.9	90.2	90.2	0.60	0.72	0.79	32.6
22	22	30	730	90.3	90.6	90.6	0.67	0.78	0.83	44.5	60	885	91.4	91.7	91.7	0.59	0.71	0.79	38.1
30	30	40	730	91.0	91.3	91.3	0.70	0.80	0.85	58.7	60	890	91.4	91.7	91.7	0.60	0.72	0.79	52.0
37	37	50	740	91.5	91.8	91.8	0.67	0.76	0.81	75.6	60	890	92.1	92.4	92.4	0.59	0.71	0.77	65.3
45	45	60	740	91.9	92.2	92.2	0.67	0.76	0.80	92.7	60	890	92.1	92.4	92.4	0.59	0.71	0.78	78.4
55	55	75	740	92.2	92.5	92.5	0.69	0.77	0.81	112	63	890	93.3	93.6	93.6	0.62	0.73	0.78	94.6
75	75	100	740	92.8	93.1	93.1	0.69	0.77	0.81	151	63	890	93.3	93.6	93.6	0.62	0.73	0.78	129
90	90	125	740	93.1	93.4	93.4	0.69	0.77	0.81	181	66	890	93.8	94.1	94.1	0.61	0.73	0.78	154
110	105	142	740	93.2	93.7	93.7	0.66	0.77	0.81	209	66	890	93.6	94.2	94.1	0.58	0.71	0.77	181
132	125	170	740	93.0	94.3	94.1	0.64	0.75	0.80	253	75	895	93.9	94.6	94.5	0.59	0.72	0.77	216
160	152	206	745	93.8	94.3	94.3	0.66	0.77	0.82	298	75	895	93.9	94.5	94.5	0.59	0.72	0.78	258
185	176	239	745	95.6	96.1	95.9	0.66	0.78	0.82	339	75	895	94.5	95.0	95.0	0.64	0.76	0.81	286
200	190	258	745	94.1	94.6	94.6	0.67	0.78	0.82	372	75	895	94.5	95.1	95.0	0.59	0.72	0.78	321
220	220	300	745	94.8	95.6	95.6	0.67	0.78	0.82	426	75	895	94.8	95.3	95.8	0.58	0.70	0.76	379
280	266	361	745	95.4	95.9	95.9	0.64	0.76	0.80	526	75	895	94.5	95.1	95.0	0.57	0.71	0.77	456

Note:

* Derated output at 45°C with class B temperature rise (75K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - Standard Efficiency - IE1 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*		Frame	Full load torque (Nm)**	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)
									Hot	Cold				% of full load						
														Efficiency			Power factor			
									kW	kW				HP	50	75	100	50	75	
II pole																				
0.12	0.12	0.16	63	0.42	3.8	2.3	2.3	0.0001	27	59	4.3	52	2720	45.5	53.5	56.0	0.55	0.68	0.80	0.39
0.18	0.18	0.25	63	0.62	5.0	2.4	2.4	0.0002	10	22	4.7	52	2790	52.0	57.0	59.0	0.54	0.67	0.77	0.57
0.25	0.25	0.33	63	0.88	4.3	2.5	2.3	0.0002	25	55	5.1	52	2720	52.0	57.0	60.0	0.50	0.65	0.76	0.79
0.37	0.37	0.5	71	1.28	4.9	2.3	2.4	0.0003	16	35	5.5	56	2770	62.0	66.5	67.0	0.60	0.75	0.84	0.94
0.55	0.55	0.75	71	1.89	5.0	2.5	2.5	0.0004	7	15	6.5	56	2780	64.0	70.0	70.0	0.56	0.71	0.82	1.38
0.75	0.69	0.94	80	2.37	5.4	2.7	2.8	0.0007	14	30	9.5	59	2785	67.4	71.5	72.3	0.59	0.73	0.82	1.68
1.1	1.01	1.3	80	3.42	6.7	2.8	2.8	0.0009	7	15	13.5	59	2820	73.2	76.2	76.7	0.61	0.74	0.82	2.32
1.5	1.3	1.8	90S	4.62	6.7	2.9	2.8	0.0020	7	15	15.0	68	2855	76.2	78.8	78.7	0.60	0.74	0.81	3.12
2.2	2	2.7	90L	6.74	7.2	2.8	3.1	0.0026	7	15	16.7	68	2865	80.0	81.8	81.7	0.60	0.74	0.83	4.30
3	2.7	3.7	100L	9.10	7.2	2.5	3.0	0.0059	9	19	23.5	67	2885	80.2	82.4	82.2	0.66	0.79	0.86	5.64
4	3.6	4.9	112M	12.1	7.3	2.6	3.2	0.0081	9	19	31.0	64	2885	80.8	83.9	84.9	0.68	0.80	0.86	7.27
5.5	5.5	7.5	132S	18.1	6.5	2.4	3.0	0.0180	11	24	42.0	68	2910	85.0	86.0	86.0	0.71	0.81	0.87	10.6
7.5	7.5	10	132S	24.7	6.4	2.3	2.6	0.0234	11	24	65.0	68	2900	85.5	86.5	86.5	0.72	0.82	0.87	14.4
9.2	9.2	12.5	132M	30.2	7.5	2.7	3.1	0.0234	8	18	65.0	68	2910	87.0	87.5	87.5	0.70	0.81	0.86	17.6
11	10.1	13.6	160M	32.8	7.3	2.1	2.9	0.0409	11	24	97.0	67	2935	87.4	88.6	88.5	0.68	0.79	0.85	19.4
15	13.8	18.8	160M	44.9	7.7	2.4	3.0	0.0517	9	19	108	67	2935	89.0	89.9	89.7	0.68	0.80	0.85	26.1
18.5	17	23	160L	55.1	8.4	2.6	3.3	0.0626	7	15	122	67	2945	90.0	90.7	90.5	0.67	0.79	0.85	31.9
22	20.2	27.4	180M	65.6	7.9	2.4	3.3	0.1084	7	15	156	67	2940	90.2	91.1	91.0	0.73	0.83	0.87	36.8
30	27.6	37.5	200L	89.2	6.9	2.2	2.6	0.1526	18	39	220	72	2955	91.3	92.0	91.8	0.73	0.83	0.87	49.9
37	34	46.2	200L	109	7.1	2.4	2.6	0.1950	16	35	232	72	2955	91.8	92.4	92.2	0.73	0.83	0.87	61.2
45	45	60	225S/M	145	6.9	2.0	2.8	0.2471	10	22	356	75	2960	91.8	92.6	92.4	0.78	0.86	0.89	79.0
55	55	75	250S/M	178	6.7	2.2	2.7	0.3736	12	26	413	75	2960	92.2	93.0	92.8	0.79	0.86	0.89	96.1
75	75	100	280S/M	241	6.8	1.8	2.8	0.8492	28	62	630	77	2975	92.5	93.5	93.3	0.78	0.86	0.88	132
90	90	125	280S/M	289	7.0	2.0	2.8	0.9804	20	44	664	77	2975	93.0	93.8	93.7	0.80	0.87	0.89	156
110	110	150	315S/M	353	6.8	1.8	2.7	1.52	26	57	848	77	2980	93.3	94.3	94.0	0.78	0.85	0.88	192
132	132	175	315S/M	423	6.7	1.8	2.6	1.66	24	53	879	77	2980	93.5	94.3	94.3	0.79	0.86	0.89	227
150	150	200	315S/M	482	7.0	2.2	3.0	1.95	20	44	880	77	2975	94.0	94.5	94.5	0.77	0.85	0.87	263
160	160	220	315S/M	513	7.6	2.0	2.8	2.04	21	46	950	77	2980	94.0	94.5	94.5	0.80	0.87	0.90	272
185	184	250	315L	589	8.4	2.2	3.0	2.45	17	37	1135	78	2980	94.1	94.7	94.7	0.77	0.87	0.90	312
200	200	270	315L	641	7.7	2.1	2.8	2.46	17	37	1135	78	2980	94.4	94.7	94.6	0.80	0.87	0.90	339
220	220	300	315L	705	8.0	2.3	2.8	2.98	14	31	1224	78	2980	94.5	94.8	94.7	0.82	0.88	0.90	373
250	239	324	315L	767	7.6	2.6	2.7	3.70	20	43	1340	78	2975	94.2	94.8	94.8	0.81	0.88	0.91	400
260	258	351	315L	827	9.3	3.0	3.0	4.16	14	30	1443	78	2980	94.3	94.9	94.9	0.81	0.88	0.90	436
280	276	375	315L	884	8.1	2.7	2.7	4.14	12	26	1500	78	2980	94.5	95.1	95.0	0.81	0.88	0.90	466
300	300	400	315L	962	7.5	2.5	2.5	4.15	12	26	1500	78	2980	94.8	95.0	95.0	0.84	0.88	0.90	506
315	315	430	355M/L	1008	7.8	2.1	2.6	5.60	22	48	1770	80	2985	94.6	94.9	94.8	0.87	0.90	0.91	527
355	355	480	355M/L	1136	7.9	2.2	2.8	6.01	14	31	1830	80	2985	94.6	95.0	94.8	0.86	0.90	0.91	594

Note:

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula C(Nm) = Power (kW)*9555 / n (rpm).

W22 Marine Motors - Standard Efficiency - IE1 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	
kW	kW	HP																		
II pole																				
0.12	0.12	0.16	2690	48.0	55.0	58.8	0.59	0.74	0.84	0.37	56	3360	44.7	52.1	57.7	0.50	0.61	0.72	0.36	
0.18	0.18	0.25	2760	54.0	58.0	59.5	0.59	0.73	0.82	0.56	56	3440	49.5	55.0	62.0	0.52	0.64	0.73	0.49	
0.25	0.25	0.33	2685	54.0	59.0	60.0	0.56	0.71	0.81	0.78	56	3360	57.0	60.0	64.0	0.50	0.61	0.71	0.69	
0.37	0.37	0.5	2740	64.6	67.5	66.6	0.67	0.81	0.88	0.95	56	3395	63.0	67.0	70.0	0.59	0.72	0.81	0.81	
0.55	0.55	0.75	2740	65.4	70.0	70.0	0.61	0.76	0.84	1.42	60	3410	64.0	68.9	72.0	0.54	0.68	0.77	1.25	
0.75	0.69	0.94	2760	69.9	72.6	72.5	0.66	0.79	0.87	1.66	60	3410	65.3	71.8	75.7	0.60	0.72	0.80	1.43	
1.1	1.01	1.3	2800	74.7	76.6	76.5	0.67	0.80	0.87	2.31	62	3445	71.7	75.9	78.0 ⁽¹⁾	0.60	0.73	0.81	2.01	
1.5	1.3	1.8	2840	77.4	79.4	79.3	0.67	0.79	0.86	3.07	62	3480	74.5	78.7	80.5 ⁽¹⁾	0.61	0.73	0.81	2.66	
2.2	2	2.7	2845	80.2	81.7	81.6	0.67	0.80	0.87	4.32	68	3475	79.0	81.5	82.2	0.59	0.73	0.81	3.81	
3	2.7	3.7	2870	81.4	83.3	83.2	0.72	0.83	0.88	5.73	68	3500	78.3	81.9	83.3	0.67	0.79	0.85	4.89	
4	3.6	4.9	2875	82.1	84.2	84.6	0.74	0.85	0.89	7.43	71	3500	79.3	82.8	84.3 ⁽¹⁾	0.68	0.80	0.86	6.37	
5.5	5.5	7.5	2895	85.4	86.0	86.0	0.77	0.85	0.89	10.9	69	3520	83.3	85.7	86.3	0.70	0.82	0.87	9.19	
7.5	7.5	10	2890	86.3	86.5	86.5	0.78	0.86	0.89	14.8	72	3515	84.3	86.3	87.5	0.71	0.82	0.87	12.5	
9.2	9.2	12.5	2900	87.9	88.0	88.0	0.76	0.85	0.89	17.8	72	3525	85.6	87.7	88.3	0.70	0.81	0.86	15.2	
11	10.1	13.6	2925	88.1	88.8	88.4	0.74	0.83	0.87	20.0	72	3560	87.5	88.2	88.7	0.66	0.78	0.85	16.8	
15	13.8	18.8	2950	89.6	90.0	89.4	0.73	0.83	0.87	27.0	72	3545	88.3	89.8	90.1	0.65	0.78	0.84	22.9	
18.5	17	23	2940	90.6	90.9	90.4	0.72	0.83	0.87	32.8	72	3555	89.4	90.7	91.0	0.65	0.78	0.85	27.6	
22	20.2	27.4	2930	90.5	91.0	90.5	0.77	0.86	0.89	38.1	72	3550	89.4	90.9	91.2	0.72	0.82	0.87	32.0	
30	27.6	37.5	2950	91.6	92.0	91.5	0.77	0.86	0.88	52.1	76	3560	90.3	91.7	91.9	0.71	0.82	0.86	43.8	
37	34	46.2	2950	92.2	92.4	91.9	0.78	0.86	0.88	63.9	76	3560	91.1	92.2	92.4	0.71	0.82	0.86	53.7	
45	45	60	2955	91.9	92.5	92.5	0.82	0.88	0.90	82.1	79	3560	90.1	91.5	92.0	0.75	0.86	0.89	69.0	
55	55	75	2955	92.3	92.9	92.5	0.83	0.88	0.90	100	79	3565	90.8	92.1	92.6	0.76	0.86	0.89	83.8	
75	75	100	2970	92.7	93.5	93.1	0.81	0.88	0.89	138	79	3575	90.6	92.1	93.0	0.76	0.86	0.88	116	
90	90	125	2970	93.1	93.7	93.5	0.83	0.89	0.90	162	81	3580	91.3	92.7	93.2	0.77	0.87	0.90	135	
110	110	150	2975	93.6	94.4	93.9	0.82	0.87	0.89	200	81	3580	91.8	93.1	93.5	0.75	0.85	0.88	168	
132	132	175	2975	93.8	94.2	94.1	0.83	0.88	0.90	237	81	3580	92.1	93.5	93.9	0.76	0.86	0.89	198	
150	150	200	2975	94.2	94.5	94.5	0.80	0.85	0.88	274	81	3575	93.9	94.6	94.6	0.76	0.85	0.88	226	
160	160	220	2975	94.2	94.5	94.4	0.83	0.89	0.91	283	81	3580	92.7	93.8	94.1	0.77	0.87	0.90	237	
185	184	250	2980	94.2	94.8	94.7	0.80	0.89	0.91	324	81	3580	93.3	94.3	94.6	0.75	0.85	0.90	271	
200	200	270	2980	94.5	94.7	94.6	0.83	0.89	0.91	353	84	3580	93.6	94.4	94.6	0.77	0.87	0.90	295	
220	220	300	2975	94.6	94.8	94.5	0.84	0.89	0.91	389	84	3580	93.6	94.4	94.5	0.79	0.88	0.90	325	
250	239	324	2970	94.1	94.7	94.7	0.83	0.90	0.92	417	84	3575	93.6	94.6	94.7	0.79	0.87	0.90	352	
260	258	351	2975	94.4	94.8	94.8	0.83	0.89	0.90	459	84	3580	93.4	94.3	94.6	0.79	0.87	0.90	380	
280	276	375	2975	94.5	95.0	94.9	0.83	0.89	0.91	486	84	3575	94.1	94.7	94.7	0.82	0.88	0.90	406	
300	300	400	2975	94.8	94.9	94.9	0.86	0.89	0.91	528	84	3575	94.3	95.1	95.1	0.79	0.86	0.89	445	
315	315	430	2980	94.2	94.9	94.8	0.88	0.91	0.91	555	84	3585	93.4	94.2	94.5	0.83	0.90	0.91	460	
355	355	480	2980	94.6	94.9	94.6	0.88	0.91	0.91	627	84	3585	93.5	94.3	94.5	0.83	0.90	0.92	512	

Notes:

(1) Motors do not comply with IE1 (60Hz) efficiency values from IEC 60034-30-1 at 50°C.

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - Standard Efficiency - IE1 Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*			Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque T _b /T _n	Inertia J (kgm ²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V						
										Hot	Cold			Rated speed (rpm)	% of full load					
	Efficiency														Power factor					
	50	75	100												50	75	100			
0.12	0.12	0.16	63	0.85	3.5	1.8	2.0	0.0003	38	83	5.2	44	1350	46.0	53.0	55.0	0.51	0.64	0.75	0.42
0.18	0.17	0.23	63	1.17	4.0	2.0	2.0	0.0006	16	35	6.2	44	1385	49.1	54.8	56.7	0.50	0.62	0.72	0.60
0.25	0.23	0.31	71	1.59	3.8	1.9	2.0	0.0006	28	61	5.5	43	1385	50.4	57.8	60.8	0.48	0.59	0.68	0.80
0.37	0.34	0.46	71	2.35	3.7	2.2	2.2	0.0007	28	61	7.0	43	1385	55.4	62.0	65.1	0.48	0.61	0.70	1.08
0.55	0.51	0.69	80	3.42	5.2	2.1	2.6	0.0024	8	17	9.5	44	1425	63.7	69.2	70.9	0.54	0.69	0.79	1.31
0.75	0.69	0.93	80	4.61	5.2	2.2	2.5	0.0030	7	15	10.5	44	1430	68.0	72.4	72.6	0.55	0.70	0.79	1.74
1.1	1.1	1.5	90S	7.35	5.8	1.8	2.4	0.0052	7	15	14.5	49	1430	72.5	75.5	75.5	0.60	0.74	0.82	2.57
1.5	1.3	1.8	90L	9.29	5.9	2.0	2.6	0.0066	8	17	17.0	49	1420	73.4	77.2	77.7	0.55	0.70	0.80	3.20
2.2	2	2.7	100L	13.5	6.0	2.6	2.8	0.0090	9	19	23.0	53	1420	78.0	80.1	80.2	0.57	0.71	0.80	4.54
3	2.7	3.7	100L	18.5	6.8	3.35	3.45	0.0082	8	14	30.0	53	1425	78.3	81.1	81.6	0.50	0.63	0.72	6.78
4	4	5.5	112M	26.5	6.2	2.1	2.5	0.0180	9	20	33.0	56.0	1440	82.5	83.5	83.5	0.65	0.77	0.83	8.33
5.5	5.5	7.5	132S	35.9	7.5	2.1	2.5	0.0453	7	15	47.0	60.0	1465	84.0	85.5	85.5	0.63	0.77	0.84	11.1
7.5	6.9	9.4	132M	45.0	6.8	2.1	2.7	0.0601	8	17	64.5	60	1465	84.7	86.9	87.1	0.60	0.73	0.80	14.3
9.2	8.5	11.5	160M	55.1	6.4	2.1	2.6	0.0767	9	19	93.0	61	1465	86.0	87.6	87.6	0.61	0.74	0.81	17.2
11	10.1	13.6	160M	65.8	6.4	2.2	2.7	0.0906	9	19	96.0	61	1465	86.3	88.0	88.1	0.61	0.74	0.81	20.4
15	13.8	18.8	160L	90.0	7.2	2.8	3.0	0.1325	8	17	121	61	1465	88.6	89.7	89.5	0.62	0.75	0.81	27.5
18.5	17	23	180M	110	7.0	2.6	3.0	0.1398	12	26	152	61	1465	89.2	90.4	90.4	0.63	0.76	0.82	33.1
22	20.2	27.4	180L	131	7.0	2.6	3.1	0.1653	10	21	164	61	1465	89.5	90.8	90.8	0.62	0.76	0.82	39.2
30	27.6	37.5	200L	179	7.1	2.5	2.8	0.2802	13	28	212	65	1470	90.9	91.8	91.6	0.64	0.77	0.83	52.4
37	37	50	225S/M	240	6.7	2.3	2.7	0.3944	10	22	342	66.0	1475	92.0	92.4	92.2	0.71	0.81	0.85	68.1
45	45	60	225S/M	292	6.9	2.4	2.7	0.4684	10	22	363	66.0	1475	92.2	92.2	92.6	0.72	0.82	0.86	81.6
55	55	75	250S/M	356	6.5	2.1	2.5	0.7731	12	26	431	66.0	1475	92.9	93.2	93.1	0.73	0.82	0.85	100
75	75	100	280S/M	483	6.6	2.0	2.6	1.48	22	48	639	69.0	1485	93.0	93.5	93.5	0.73	0.81	0.85	136
90	90	125	280S/M	579	6.8	2.1	2.7	1.79	20	44	673	69.0	1485	93.2	93.8	93.8	0.75	0.83	0.86	159
110	110	150	315S/M	705	6.4	2.0	2.4	2.55	26	57	887	71.0	1490	93.6	94.3	94.1	0.75	0.83	0.86	196
132	132	175	315S/M	846	6.9	2.3	2.4	3.11	22	48	953	71.0	1490	93.9	94.5	94.3	0.74	0.83	0.86	235
150	150	200	315S/M	962	7.0	2.5	2.8	3.34	18	40	1012	71.0	1490	94.0	94.5	94.5	0.74	0.82	0.86	266
160	160	220	315S/M	1026	7.3	2.4	2.5	3.54	18	40	1012	71.0	1490	94.1	94.6	94.5	0.73	0.82	0.86	284
185	185	250	315S/M	1186	6.9	2.4	2.3	3.98	17	37	1071	71.0	1490	94.3	94.7	94.6	0.74	0.82	0.86	328
200	200	270	315L	1283	6.9	2.4	2.3	4.41	16	35	1216	74.0	1490	94.4	94.8	94.7	0.76	0.84	0.85	359
220	220	300	315L	1411	7.7	2.6	2.4	4.85	14	31	1330	74.0	1490	94.5	94.9	94.8	0.74	0.83	0.86	389
250	250	340	315L	1603	7.8	2.7	2.5	5.40	12	26	1399	74.0	1490	94.6	94.9	94.8	0.75	0.83	0.86	443
260	260	350	315L	1667	7.8	2.7	2.5	5.40	12	26	1399	74.0	1490	94.6	94.9	94.8	0.75	0.83	0.86	460
280	276	375	355M/L	1769	7.8	2.3	2.6	8.59	18	39	1560	76	1490	94.5	94.9	95.0	0.71	0.81	0.85	493
300	290	394	355M/L	1859	7.7	2.6	2.6	8.94	14	30	1670	76	1490	94.5	94.9	95.0	0.70	0.82	0.85	518
315	304	413	355M/L	1949	7.4	2.3	2.6	9.84	17	37	1769	76	1490	94.4	95.0	95.0	0.72	0.82	0.86	537
355	327	444	355M/L	2096	7.5	2.6	2.5	10.73	15	32	1888	76	1490	94.5	94.9	95.0	0.72	0.82	0.86	578
370	370	500	355M/L	2373	7.3	2.6	2.4	11.70	11	24	1971	76.0	1490	94.9	95.1	94.9	0.75	0.83	0.86	654
400	368	500	355M/L	2359	7.8	2.8	2.6	11.70	11	24	1971	76	1490	94.6	95.0	95.0	0.70	0.81	0.85	658

Note:
 * Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).
 ** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula C(Nm) = Power (kW)*9555 / n (rpm).

W22 Marine Motors - Standard Efficiency - IE1 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	
kW	kW	HP																		
0.12	0.12	0.16	1330	49.6	55.0	55.1	0.56	0.69	0.79	0.42	48	1670	46.7	53.4	56,6 ⁽¹⁾	0.49	0.59	0.69	0.39	
0.18	0.17	0.23	1365	49.4	54.6	56.6	0.55	0.66	0.77	0.59	48	1710	50.3	56.7	58,6 ⁽¹⁾	0.46	0.56	0.64	0.57	
0.25	0.23	0.31	1355	54.0	60.0	61.2	0.53	0.65	0.73	0.78	48	1710	53.1	62.9	67.4	0.44	0.55	0.64	0.67	
0.37	0.34	0.46	1360	59.1	64.0	65.6	0.53	0.66	0.76	1.04	47	1705	55.5	63.6	68.4	0.45	0.57	0.66	0.95	
0.55	0.51	0.69	1410	67.0	70.9	71.2	0.60	0.75	0.83	1.31	47	1730	63.4	69.7	72,5 ⁽¹⁾	0.52	0.66	0.76	1.16	
0.75	0.69	0.93	1420	70.3	73.3	72.6	0.60	0.75	0.82	1.76	48	1740	67.8	73.4	74,6 ⁽¹⁾	0.52	0.67	0.77	1.51	
1.1	1.1	1.5	1415	73.0	75.5	75.5	0.66	0.79	0.85	2.60	51	1740	70.3	75.1	79.0	0.57	0.71	0.79	2.21	
1.5	1.3	1.8	1410	73.8	77.0	77.7	0.62	0.76	0.84	3.21	51	1725	72.7	78.1	80,8 ⁽¹⁾	0.54	0.67	0.76	2.82	
2.2	2	2.7	1410	78.7	80.2	80.1	0.64	0.77	0.84	4.56	51	1725	77.2	80.8	82,6 ⁽¹⁾	0.55	0.69	0.78	3.94	
3	2.7	3.7	1420	79.3	81.4	81.6	0.56	0.69	0.76	6.76	54	1735	76.8	80.1	81.3	0.49	0.61	0.69	6.18	
4	4	5.5	1430	82.9	83.1	83.1	0.71	0.81	0.86	8.50	54	1745	81.9	84.1	84.8	0.64	0.76	0.83	7.13	
5.5	5.5	7.5	1460	85.0	85.5	85.5	0.70	0.81	0.86	11.4	56	1770	84.2	86.3	87.0	0.63	0.76	0.83	9.58	
7.5	6.9	9.4	1460	85.6	87.1	86.9	0.67	0.79	0.84	14.4	58	1765	83.8	86.6	87.6	0.60	0.73	0.79	12.5	
9.2	8.5	11.5	1460	86.9	87.8	87.3	0.66	0.78	0.83	17.7	58	1765	85.4	87.7	88.3	0.58	0.72	0.79	15.2	
11	10.1	13.6	1460	87.4	88.3	87.9	0.66	0.78	0.83	21.0	58	1765	85.9	88.1	88.8	0.59	0.73	0.80	17.8	
15	13.8	18.8	1465	89.2	89.8	89.2	0.67	0.79	0.84	28.0	64	1770	88.3	89.9	90.2	0.60	0.73	0.80	24	
18.5	17	23	1465	90.1	90.7	90.3	0.69	0.81	0.86	33.3	64	1770	89.1	90.6	90.9	0.62	0.75	0.82	28.6	
22	20.2	27.4	1465	90.4	91.1	90.7	0.68	0.80	0.86	39.3	64	1770	89.2	91.0	91.4	0.61	0.75	0.82	33.8	
30	27.6	37.5	1465	91.4	91.8	91.4	0.69	0.81	0.85	54.0	66	1770	90.5	91.8	92.0	0.62	0.75	0.82	45.9	
37	37	50	1470	92.3	92.4	91.9	0.76	0.84	0.86	71.1	66	1775	91.1	92.4	92.5	0.69	0.81	0.85	59.1	
45	45	60	1470	92.5	92.2	92.3	0.76	0.85	0.87	85.1	67	1775	91.1	92.3	93.0	0.69	0.81	0.86	70.9	
55	55	75	1470	93.1	93.1	92.7	0.77	0.84	0.86	105	67	1775	92.1	93.2	93.3	0.70	0.81	0.85	87.0	
75	75	100	1480	93.3	93.5	93.3	0.77	0.83	0.86	142	68	1785	91.8	93.0	93.3	0.68	0.78	0.83	122	
90	90	125	1480	93.6	93.9	93.6	0.79	0.85	0.88	166	73	1785	92.1	93.4	93.6	0.72	0.83	0.86	139	
110	110	150	1490	93.8	94.3	93.9	0.79	0.85	0.87	205	73	1790	92.5	93.5	93.8	0.72	0.83	0.86	171	
132	132	175	1490	94.2	94.5	94.2	0.78	0.85	0.87	245	75	1790	92.8	93.9	94.1	0.71	0.82	0.86	205	
150	150	200	1490	94.5	94.6	94.6	0.78	0.85	0.88	274	75	1790	93.3	94.4	94.6	0.71	0.82	0.86	231	
160	160	220	1490	94.4	94.7	94.4	0.77	0.84	0.87	296	75	1790	93.2	94.1	94.3	0.71	0.82	0.86	248	
185	185	250	1490	94.5	94.7	94.4	0.78	0.84	0.87	342	75	1790	93.5	94.4	94.5	0.70	0.82	0.86	286	
200	200	270	1490	94.6	94.8	94.5	0.79	0.86	0.88	365	78	1790	93.8	94.7	94.8	0.73	0.84	0.87	304	
220	220	300	1490	94.7	94.9	94.7	0.78	0.85	0.87	406	78	1790	93.9	94.6	94.8	0.71	0.82	0.86	339	
250	250	340	1490	95.4	94.9	94.7	0.79	0.85	0.87	461	78	1790	94.0	95.0	95.1	0.72	0.82	0.86	384	
260	260	350	1490	95.4	94.9	94.7	0.79	0.85	0.87	479	78	1790	94.0	95.0	95.1	0.72	0.82	0.86	399	
280	276	375	1490	94.5	94.9	94.8	0.74	0.84	0.87	508	78	1790	94.2	94.8	95.0	0.69	0.80	0.85	429	
300	290	394	1490	94.6	95.0	94.9	0.74	0.84	0.87	534	78	1790	94.0	94.7	95.0	0.67	0.79	0.85	451	
315	304	413	1485	94.4	94.9	94.9	0.70	0.80	0.84	579	78	1790	93.9	94.7	94.9	0.67	0.79	0.85	473	
355	327	444	1490	94.5	94.9	94.8	0.75	0.85	0.87	602	78	1790	94.1	94.7	95.0	0.68	0.80	0.85	508	
370	370	500	1490	94.5	94.7	94.8	0.78	0.85	0.87	682	78	1790	94.1	94.8	95.0	0.72	0.82	0.86	568	
400	368	500	1490	94.6	94.9	94.8	0.74	0.84	0.87	678	78	1790	94.2	94.8	95.0	0.67	0.79	0.85	572	

Notes:

(1) Motors do not comply with IE1 (60Hz) efficiency values from IEC 60034-30-1 at 50°C.

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - Standard Efficiency - IE1 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*			Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/Tn	Inertia J (kgm ²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V							Full load current In (A)
														Rated speed (rpm)	% of full load						
															Efficiency			Power factor			
															50	75	100	50	75	100	
kW	kW	HP							Hot	Cold											
0.12	0.11	0.15	63	1.21	2.7	1.8	1.7	0.0007	46	100	6.7	43	870	41.4	46.6	48.0	0.43	0.52	0.63	0.53	
0.18	0.18	0.25	71	1.91	3.1	2.2	2.2	0.0009	30	65	9.0	43	900	46.0	53.0	55.0	0.38	0.49	0.58	0.81	
0.25	0.23	0.31	71	2.43	3.2	2.4	2.4	0.0008	30	65	11.5	43	905	47.1	53.3	56.5	0.36	0.45	0.55	1.07	
0.37	0.34	0.46	80	3.55	3.7	1.8	1.8	0.0019	16	35	12.1	43	915	52.8	59.6	62.4	0.48	0.61	0.72	1.09	
0.55	0.51	0.69	80	5.21	4.7	2.5	2.5	0.0030	10	21	15.5	43	935	58.1	64.5	66.7	0.48	0.60	0.70	1.58	
0.75	0.69	0.93	90S	7.13	4.4	1.9	2.3	0.0044	17	37	18.0	45	925	66.6	70.1	70.3	0.49	0.62	0.72	1.97	
1.1	1	1.4	90L	10.3	4.9	2.1	2.2	0.0060	9	19	22.0	45	930	68.6	72.0	72.9	0.45	0.57	0.68	2.94	
1.5	1.5	2	100L	15.6	4.4	1.9	2.2	0.0093	21	46	27.0	44	920	76.0	77.0	76.0	0.52	0.66	0.73	3.90	
2.2	2.2	3	112M	22.4	5.1	2.3	2.5	0.0165	17	37	37.0	48	940	78.0	78.5	78.0	0.53	0.66	0.74	5.50	
3	2.8	3.8	132S	27.4	5.6	2.1	2.4	0.0340	20	43	55.0	53	960	80.3	82.0	81.5	0.55	0.68	0.75	6.52	
4	3.7	5	132M	36.4	6.1	2.5	2.6	0.0435	19	41	59.0	53	965	80.3	82.4	82.6	0.51	0.64	0.72	8.93	
5.5	5.1	6.9	132M	50.1	6.5	2.5	3.1	0.0606	19	41	72.0	52	965	81.8	84.2	84.6	0.48	0.61	0.70	12.3	
7.5	6.9	9.3	160M	68.3	5.7	2.0	2.5	0.0966	12	26	103	56	965	84.4	85.8	85.5	0.61	0.74	0.81	14.4	
9.2	8.5	11.5	160L	83.7	6.1	2.1	2.6	0.1229	10	21	113	56	965	85.3	86.7	86.3	0.62	0.75	0.81	17.5	
11	10.1	13.6	160L	100	6.2	2.2	2.6	0.1489	11	24	127	56	965	86.4	87.6	87.4	0.62	0.75	0.82	20.3	
15	13.8	18.8	180L	135	7.3	2.5	2.9	0.2299	6	13	166	56	970	87.5	88.6	88.4	0.68	0.81	0.86	26.2	
18.5	17	23	200L	166	6.1	2.2	2.6	0.2989	12	26	190	60	975	87.9	89.2	89.1	0.61	0.74	0.81	34.0	
22	20.2	27.4	200L	197	6.5	2.3	2.6	0.3692	13	28	218	60	975	89.0	90.1	89.9	0.63	0.76	0.82	39.6	
30	30	40	225S/M	293	6.8	2.1	2.7	0.7192	12	26	359	63	980	91.0	91.5	91.2	0.74	0.83	0.86	55.2	
37	34	46.2	250S/M	329	7.3	2.2	2.6	1.01	14	30	425	64	985	91.3	92.0	91.8	0.71	0.82	0.86	62.2	
45	45	60	280S/M	437	6.0	1.9	2.3	1.80	18	40	576	65	985	92.0	92.5	92.2	0.69	0.79	0.83	84.9	
55	55	75	280S/M	534	6.0	2.2	2.5	2.13	20	44	607	65	985	92.7	92.7	92.6	0.64	0.75	0.81	106	
75	69	93.7	315S/M	665	6.9	2.1	2.6	3.81	22	48	837	67	990	92.6	93.3	93.1	0.64	0.77	0.82	130	
90	90	125	315S/M	869	6.2	2.0	2.2	4.36	18	40	883	67	990	93.4	93.6	93.4	0.70	0.80	0.83	168	
110	110	150	315S/M	1062	6.2	2.0	2.2	5.07	20	44	941	67	990	93.7	94.0	93.8	0.70	0.80	0.83	204	
132	132	175	315S/M	1274	6.2	2.1	2.2	6.00	18	40	1012	67	990	94.0	94.2	94.1	0.73	0.82	0.85	238	
150	138	187	315L	1331	7.0	2.2	2.8	6.49	23	50	1100	68	990	93.6	94.4	94.5	0.62	0.75	0.80	263	
160	160	220	315L	1544	6.5	2.2	2.3	7.22	14	31	1203	68	990	94.1	94.4	94.4	0.69	0.79	0.83	295	
185	185	250	315L	1786	7.1	2.3	2.4	8.86	12	26	1346	68	990	94.2	94.5	94.6	0.70	0.79	0.83	340	
200	200	270	315L	1930	7.3	2.4	2.5	10.1	12	26	1488	68	990	94.3	94.6	94.6	0.70	0.80	0.83	368	
220	220	300	315L	2123	6.8	2.3	2.3	11.0	15	33	1563	68	990	94.4	94.7	94.7	0.70	0.80	0.83	404	
250	250	340	355M/L	2413	6.0	2.1	2.1	12.0	32	70	1752	73	990	94.4	94.7	94.7	0.65	0.75	0.80	476	
260	260	350	355M/L	2509	6.0	2.0	2.0	12.0	32	70	1752	73	990	94.4	94.7	94.7	0.65	0.75	0.80	495	
280	276	375	355M/L	2663	6.7	2.3	2.3	14.32	30	65	1900	73	990	94.2	94.7	94.7	0.60	0.72	0.78	539	
300	300	400	355M/L	2895	6.2	2.2	2.2	14.3	30	66	1900	73	990	94.4	94.7	94.6	0.63	0.74	0.79	579	
315	315	430	355M/L	3025	6.2	2.2	2.2	15.0	28	62	1979	73	995	94.5	94.8	94.8	0.66	0.76	0.81	592	

Note:

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) * 9555 / n (rpm)$.

W22 Marine Motors - Standard Efficiency - IE1 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	
kW	kW	HP																		
0.12	0.11	0.15	860	47.0	50.9	50.7	0.45	0.56	0.68	0.49	47	1085	43.8	50.7	52.8	0.37	0.45	0.55	0.48	
0.18	0.18	0.25	885	49.3	55.1	55.9	0.41	0.52	0.62	0.79	47	1115	46.9	53.6	57.0	0.35	0.44	0.52	0.76	
0.25	0.23	0.31	890	51.1	56.0	57.7	0.40	0.50	0.60	1.01	47	1120	48.3	55.2	58.7	0.34	0.42	0.50	0.98	
0.37	0.34	0.46	900	55.1	61.4	64.4	0.52	0.65	0.77	1.04	47	1125	51.4	58.7	62.4	0.45	0.56	0.66	1.04	
0.55	0.51	0.69	925	60.0	65.6	67.6	0.52	0.64	0.74	1.55	47	1145	57.0	64.0	66.7	0.45	0.56	0.65	1.48	
0.75	0.69	0.93	915	68.7	71.1	70.5	0.54	0.67	0.76	1.96	49	1135	66.8	71.6	72.9	0.47	0.59	0.68	1.75	
1.1	1	1.4	925	69.8	73.6	75.7	0.51	0.62	0.74	2.74	48	1140	69.3	73.9	76.2	0.44	0.54	0.64	2.60	
1.5	1.5	2	910	77.6	77.2	75.2	0.57	0.70	0.76	3.99	52	1130	76.8	79.0	78.8	0.51	0.63	0.70	3.41	
2.2	2.2	3	930	79.8	78.9	77.7	0.58	0.71	0.78	5.52	52	1145	78.4	80.5	80.4	0.51	0.64	0.72	4.77	
3	2.8	3.8	955	80.8	82.6	82.4	0.58	0.70	0.77	6.61	55	1165	78.1	81.5	82.8	0.50	0.62	0.71	5.89	
4	3.7	5	965	81.2	82.7	82.6	0.57	0.69	0.77	8.79	55	1165	81.0	83.6	84.5	0.49	0.62	0.71	7.70	
5.5	5.1	6.9	960	83.3	84.9	84.7	0.53	0.66	0.74	12.3	55	1165	81.6	84.6	85.6	0.46	0.59	0.69	10.8	
7.5	6.9	9.3	965	85.5	86.1	85.1	0.66	0.78	0.84	14.7	55	1170	84.3	86.5	86.9	0.58	0.72	0.79	12.6	
9.2	8.5	11.5	965	86.2	86.9	86.2	0.67	0.79	0.84	17.8	59	1170	85.2	87.3	87.6	0.59	0.73	0.80	15.2	
11	10.1	13.6	965	87.2	87.7	87.0	0.66	0.78	0.84	21.0	59	1170	86.0	88.2	88,9 ⁽¹⁾	0.59	0.72	0.80	17.8	
15	13.8	18.8	970	88.1	88.6	88.0	0.73	0.84	0.88	27.1	59	1175	87.1	89.0	89.5	0.66	0.79	0.85	22.8	
18.5	17	23	970	89.0	89.6	89.1	0.67	0.79	0.84	34.5	59	1175	87.8	89.7	90.2	0.59	0.73	0.80	29.6	
22	20.2	27.4	970	89.9	90.4	89.7	0.69	0.80	0.84	40.7	62	1175	88.7	90.5	91.0	0.62	0.75	0.82	34.0	
30	30	40	975	91.2	91.3	90.7	0.78	0.85	0.87	57.8	62	1180	90.4	91.3	91.7	0.71	0.82	0.86	48.0	
37	34	46.2	980	91.6	91.9	91.4	0.74	0.84	0.87	65.0	66	1185	90.9	92.0	92.2	0.69	0.81	0.86	53.8	
45	45	60	980	92.3	92.5	91.9	0.74	0.82	0.85	87.5	68	1185	91.2	92.3	92.4	0.67	0.79	0.83	73.6	
55	55	75	980	93.0	92.7	92.3	0.69	0.78	0.83	109	68	1185	91.7	92.8	92.9	0.62	0.74	0.80	92.9	
75	69	93.7	990	93.2	93.6	93.1	0.69	0.81	0.84	134	69	1190	91.9	93.0	93.2	0.61	0.74	0.81	115	
90	90	125	990	93.7	93.6	93.1	0.74	0.83	0.84	175	69	1185	92.7	93.5	93.5	0.68	0.79	0.84	144	
110	110	150	989	93.6	93.7	93.7	0.74	0.83	0.84	212	70	1190	93.1	93.9	94.1	0.67	0.79	0.83	177	
132	132	175	985	94.3	94.2	93.9	0.78	0.85	0.87	245	70	1190	93.4	94.2	94.3	0.71	0.82	0.86	204	
150	138	187	990	93.7	94.3	94.3	0.66	0.78	0.82	271	70	1195	93.4	94.5	94.6	0.60	0.73	0.79	232	
160	160	220	985	94.3	94.4	94.2	0.73	0.81	0.84	307	70	1190	93.5	94.4	94.5	0.66	0.78	0.83	256	
185	185	250	990	94.4	94.5	94.4	0.74	0.81	0.84	354	77	1190	93.7	94.5	94.7	0.66	0.78	0.83	295	
200	200	270	990	94.5	94.6	94.4	0.74	0.82	0.84	383	77	1190	93.7	94.6	94.7	0.67	0.79	0.83	319	
220	220	300	990	94.6	94.7	94.5	0.74	0.82	0.84	421	77	1190	93.8	94.6	94.8	0.67	0.79	0.83	351	
250	250	340	990	94.6	94.7	94.6	0.69	0.78	0.82	490	77	1190	93.8	94.5	94.7	0.62	0.74	0.80	414	
260	260	350	990	94.6	94.7	94.6	0.69	0.78	0.82	509	77	1190	93.8	94.5	94.7	0.62	0.74	0.80	431	
280	276	375	990	94.5	94.8	94.6	0.62	0.74	0.79	561	77	1190	93.7	94.5	94.7	0.54	0.68	0.75	488	
300	300	400	990	94.7	94.7	94.5	0.65	0.75	0.80	603	77	1190	93.9	94.6	94.7	0.57	0.70	0.77	516	
315	315	430	995	94.7	94.8	94.7	0.70	0.79	0.83	609	77	1195	94.1	94.8	94.9	0.63	0.75	0.81	514	

Notes:

(1) Motors do not comply with IE1 (60Hz) efficiency values from IEC 60034-30-1 at 50°C.

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).



W22 Marine Motors - Standard Efficiency - IE1 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*		Frame	Full load torque (Nm)**	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							
									Rated speed (rpm)	% of full load						Full load current I _n (A)				
										Efficiency			Power factor							
										50			75	100	50		75	100		
kW	kW	HP						Hot	Cold											
VIII pole																				
0.12	0.12	0.16	71	1.74	2.2	2.1	2.0	0.0008	84	183	10.7	41	660	36.3	43.4	45.6	0.37	0.45	0.53	0.72
0.18	0.18	0.25	80	2.47	2.8	2.2	2.4	0.0020	29	63	12.6	42	695	36.2	44.1	48.6	0.45	0.53	0.62	0.86
0.25	0.25	0.33	80	3.49	3.8	2.1	2.2	0.0027	27	59	13.0	42	685	46.0	51.0	53.0	0.45	0.56	0.66	1.03
0.37	0.37	0.5	90S	5.16	3.0	1.9	1.8	0.0038	32	70	15.4	43	685	50.6	56.5	57.4	0.44	0.55	0.64	1.45
0.55	0.51	0.69	90L	7.17	3.4	2.0	2.1	0.0058	25	54	16.5	43	680	56.0	60.4	60.4	0.41	0.53	0.63	1.93
0.75	0.75	1	100L	10.1	3.5	1.8	2.4	0.0077	33	72	23.8	50	705	62.0	67.2	67.8	0.42	0.53	0.62	2.58
1.1	1.1	1.5	100L	15.0	4.0	1.7	2.3	0.0116	27	59	28.5	50	700	69.3	72.3	71.2	0.45	0.57	0.66	3.38
1.5	1.5	2	112M	20.4	4.2	2.2	2.2	0.0174	26	56	33.4	46	700	73.7	75.4	73.5	0.48	0.61	0.70	4.21
2.2	2	2.7	132S	26.9	6.5	2.7	3.0	0.0592	22	48	55.3	48	715	75.4	77.6	77.5	0.52	0.66	0.75	5.02
3	2.8	3.8	132M	36.8	6.5	2.4	2.8	0.0715	18	39	65.0	48	715	78.2	79.8	79.5	0.52	0.66	0.74	6.77
4	3.7	5	160M	48.8	5.0	2.1	2.2	0.0878	17	37	101	51	720	78.8	81.6	81.8	0.49	0.63	0.70	9.28
5.5	5.0	6.8	160M	67.1	5.0	2.1	2.2	0.1141	16	35	110	51	720	81.1	83.3	83.2	0.49	0.62	0.71	12.4
7.5	6.9	9.3	160L	91.5	5.2	2.3	2.3	0.1492	16	35	130	51	720	83.4	85.3	85.3	0.49	0.62	0.71	16.4
9.2	8.4	11.4	180M	111	6.8	2.1	2.6	0.2037	10	21	156	51	725	85.4	86.6	86.3	0.61	0.74	0.81	17.5
11	10.1	13.6	180L	133	6.9	2.2	2.6	0.2444	10	21	175	51	725	86.5	87.6	87.3	0.64	0.77	0.83	20.1
15	13.8	18.8	200L	181	4.9	2.0	2.1	0.3341	22	48	205	53	725	86.7	88.2	88.1	0.55	0.68	0.75	30.1
18.5	18.5	25	225S/M	241	6.4	1.8	2.4	0.6183	18	40	339	56	735	87.4	87.9	88.4	0.66	0.77	0.82	36.8
22	22	30	225S/M	286	6.4	1.8	2.4	0.7214	16	35	358	56	735	87.9	88.4	88.9	0.69	0.79	0.83	43.0
30	30	40	250S/M	390	6.9	1.9	2.4	1.06	13	29	433	56	735	88.7	89.2	89.7	0.67	0.78	0.83	58.2
37	37	50	280S/M	478	5.0	1.6	2.0	1.81	26	57	575	59	740	89.1	89.6	90.1	0.64	0.75	0.79	75.0
45	45	60	280S/M	581	5.4	1.7	2.0	2.26	21	46	617	59	740	89.5	90.0	90.5	0.64	0.75	0.79	90.8
55	50.6	68.7	315S/M	653	5.7	1.7	2.1	3.66	30	65	745	62	740	92.2	93.1	93.1	0.62	0.74	0.79	99.3
75	75	100	315S/M	968	5.3	1.6	2.0	4.76	30	66	913	62	740	90.0	90.5	91.0	0.66	0.76	0.80	149
90	90	125	315S/M	1162	5.8	1.8	2.1	5.67	26	57	982	62	740	90.7	91.2	91.7	0.66	0.76	0.80	177
110	110	150	315L	1420	5.8	1.8	2.1	6.93	24	53	1180	68	740	91.1	91.6	92.1	0.64	0.75	0.80	215
132	132	175	315L	1704	6.2	2.0	2.2	8.75	23	51	1290	68	740	91.4	91.9	92.4	0.63	0.74	0.79	261
150	150	200	355M/L	1924	7.0	1.5	2.0	13.80	35	77	1571	70	745	91.8	92.3	92.8	0.64	0.75	0.80	308
160	160	220	355M/L	2052	6.2	1.4	2.2	13.80	48	106	1571	70	745	91.8	92.3	92.8	0.62	0.74	0.79	315
185	185	250	355M/L	2373	6.0	1.4	2.1	15.90	46	101	1653	70	745	92.3	92.8	93.3	0.64	0.75	0.80	358
200	200	270	355M/L	2565	6.2	1.5	2.2	18.40	44	97	1725	70	745	92.3	92.8	93.3	0.63	0.74	0.79	392
220	220	300	355M/L	2822	6.3	1.4	2.1	19.90	42	92	1839	70	745	92.3	92.8	93.3	0.64	0.75	0.80	425

Note:

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) * 9555 / n (rpm)$.

W22 Marine Motors - Standard Efficiency - IE1 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	
kW	kW	HP																		

VIII pole

0.12	0.12	0.16	650	41.0	47.1	47.6	0.39	0.48	0.57	0.67	45	820	39.5	46.8	49.9	0.34	0.40	0.47	0.64
0.18	0.18	0.25	690	40.7	47.7	50.6	0.47	0.57	0.66	0.82	46	855	37.9	45.9	50.6	0.40	0.48	0.55	0.81
0.25	0.25	0.33	675	48.8	52.8	53.4	0.48	0.60	0.70	1.02	46	845	46.7	53.0	55.5	0.41	0.51	0.60	0.94
0.37	0.37	0.5	680	54.4	59.0	58.3	0.48	0.60	0.69	1.40	47	845	53.0	59.1	61.1	0.40	0.50	0.59	1.29
0.55	0.51	0.69	675	60.0	62.8	61.0	0.44	0.58	0.67	1.90	47	835	59.0	64.8	65.1	0.38	0.49	0.58	1.70
0.75	0.75	1	695	65.6	69.0	68.0	0.46	0.58	0.66	2.54	47	855	64.6	69.6	71.0	0.40	0.50	0.59	2.25
1.1	1.1	1.5	690	72.1	73.6	70.8	0.50	0.62	0.70	3.37	54	860	71.9	75.0	74.8	0.43	0.55	0.63	2.93
1.5	1.5	2	690	75.9	76.2	73.2	0.52	0.65	0.73	4.27	54	855	76.1	78.4	77.5	0.45	0.58	0.66	3.68
2.2	2	2.7	710	76.9	78.1	77.3	0.57	0.71	0.78	5.09	52	865	76.1	79.0	79.5	0.50	0.63	0.72	4.43
3	2.8	3.8	710	79.6	80.4	79.3	0.57	0.71	0.78	6.78	52	865	79.2	81.5	81.6	0.50	0.64	0.73	5.82
4	3.7	5	715	80.9	82.5	81.8	0.54	0.67	0.74	9.24	52	870	79.3	82.9	83.8	0.46	0.59	0.69	7.99
5.5	5	6.8	715	82.6	83.8	83.0	0.54	0.67	0.74	12.5	54	875	81.4	84.4	85.0	0.47	0.60	0.68	11.0
7.5	6.9	9.3	715	84.8	85.8	85.1	0.54	0.67	0.74	16.6	54	875	83.8	86.3	86.9	0.48	0.60	0.68	14.7
9.2	8.4	11.4	720	86.4	86.8	85.9	0.66	0.78	0.83	18.0	54	875	85.4	87.3	87.5	0.58	0.72	0.79	15.4
11	10.1	13.6	720	87.2	87.6	86.7	0.68	0.80	0.85	20.8	54	875	86.3	88.0	88.3	0.61	0.75	0.82	17.5
15	13.8	18.8	720	87.9	88.5	87.8	0.61	0.73	0.77	31.0	54	875	86.8	88.9	89.3	0.54	0.67	0.74	26.2
18.5	18.5	25	730	86.9	87.4	87.9	0.70	0.80	0.84	38.1	56	885	87.5	88.0	88.5	0.62	0.76	0.82	32.0
22	22	30	730	87.7	88.2	88.7	0.73	0.82	0.84	44.9	60	885	89.2	89.7	90.2	0.66	0.78	0.82	37.3
30	30	40	730	88.5	89.0	89.5	0.72	0.81	0.85	59.9	60	885	89.2	89.7	90.2	0.64	0.77	0.83	50.3
37	37	50	735	88.6	89.1	89.6	0.69	0.78	0.81	77.5	60	890	90.0	90.5	91.0	0.62	0.74	0.79	64.6
45	45	60	735	89.3	89.8	90.3	0.69	0.78	0.81	93.5	60	890	90.0	90.5	91.0	0.61	0.74	0.79	78.6
55	50.6	68.7	740	92.7	93.2	93.0	0.67	0.77	0.81	102	63	890	91.5	92.9	93.3	0.59	0.72	0.79	86.2
75	75	100	735	89.8	90.3	90.8	0.70	0.79	0.81	155	63	890	91.0	91.5	92.0	0.64	0.75	0.80	128
90	90	125	740	90.5	91.0	91.5	0.70	0.79	0.81	184	66	890	91.5	92.0	92.5	0.64	0.75	0.80	153
110	110	150	740	90.6	91.1	91.6	0.69	0.78	0.82	223	66	890	91.5	92.0	92.5	0.61	0.74	0.80	187
132	132	175	740	91.2	91.7	92.2	0.68	0.77	0.81	269	75	890	91.5	92.0	92.5	0.60	0.73	0.79	227
150	150	200	745	91.6	92.1	92.6	0.69	0.79	0.83	289	75	895	91.5	92.0	92.5	0.62	0.75	0.80	247
160	160	220	745	91.6	92.1	92.6	0.67	0.78	0.81	324	75	895	91.5	92.0	92.5	0.59	0.73	0.79	275
185	185	250	745	92.1	92.6	93.1	0.69	0.78	0.82	368	75	895	91.5	92.0	92.5	0.62	0.74	0.80	314
200	200	270	745	92.1	92.6	93.1	0.68	0.78	0.81	403	75	895	91.5	92.0	92.5	0.61	0.73	0.79	344
220	220	300	745	92.1	92.6	93.1	0.69	0.78	0.82	438	75	895	91.5	92.0	92.5	0.62	0.74	0.80	373

Note:

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - High Efficiency - IE2 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*		Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque Tb/Tn	Inertia J (kgm ²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V							Full load current In (A)
									Hot	Cold			Rated speed (rpm)	% of full load			Power factor			
														50	75	100	50	75	100	
0.12	0.12	0.16	63	0.41	4.8	3.0	2.9	0.0001	37	81	5.7	52	2790	53.0	60.0	61.0	0.53	0.66	0.75	0.38
0.18	0.18	0.25	63	0.62	5.3	2.3	2.4	0.0001	15	33	6.2	52	2790	57.0	62.0	64.0	0.57	0.70	0.79	0.51
0.25	0.25	0.33	63	0.86	5.0	2.2	2.2	0.0002	11	24	6.7	52	2770	58.0	63.0	65.0	0.57	0.70	0.80	0.69
0.37	0.37	0.5	71	1.25	5.8	2.5	2.6	0.0004	12	26	8.3	56	2830	68.0	70.0	71.0	0.60	0.75	0.84	0.90
0.55	0.55	0.75	71	1.89	5.8	2.4	2.4	0.0005	9	20	11.2	56	2780	70.0	72.0	74.1	0.68	0.82	0.88	1.22
0.75	0.75	1	80	2.56	6.5	2.8	2.8	0.0008	14	31	12.5	59	2800	76.0	78.5	79.5	0.67	0.80	0.86	1.58
1.1	1	1.3	80	3.42	7.0	3.0	3.0	0.0000	10	22	14.0	59	2820	77.2	79.8	80.2	0.64	0.77	0.84	2.17
1.5	1.3	1.8	90S	4.58	7.3	2.8	3.0	0.0000	7	15	17.5	62	2880	79.2	81.8	82.1	0.60	0.74	0.81	3.00
2.2	2.0	3	90L	6.76	7.0	3.25	3.25	0.0022	9	16	25.0	64	2855	82.2	83.8	83.7	0.60	0.74	0.81	4.31
3	3	4	100L	9.90	8.0	2.4	2.8	0.0064	7	15	28.5	67	2880	84.0	85.0	85.0	0.70	0.81	0.86	5.92
4	3.6	4.9	112M	12.1	7.5	2.1	3.0	0.0100	10	22	38.0	64	2890	85.0	86.4	86.2	0.69	0.82	0.87	7.08
5.5	5.5	7.5	132S	18.1	6.8	2.2	3.0	0.0197	17	37	60.0	67	2910	86.5	88.0	88.0	0.68	0.79	0.85	10.6
7.5	6.9	9.3	132S	22.5	7.3	2.4	3.1	0.0300	13	28	63.0	68	2920	87.3	88.7	88.6	0.69	0.81	0.86	13.0
9.2	8.4	11.5	132M	27.6	8.2	2.7	3.4	0.0200	10	22	70.0	68	2925	87.8	89.1	89.1	0.67	0.79	0.85	16.1
11	10.1	13.6	160M	32.8	7.5	2.5	3.2	0.0400	13	28	104	67	2940	89.5	90.7	90.6	0.68	0.80	0.85	18.9
15	13.8	18.8	160M	44.9	7.5	2.5	3.2	0.0500	9	19	112	67	2935	90.4	91.5	91.4	0.68	0.80	0.85	25.6
18.5	17	23	160L	55.1	7.9	2.6	3.3	0.0600	8	17	124	67	2945	91.0	91.9	92.1	0.67	0.78	0.85	31.3
22	20.2	27.4	180M	65.4	7.8	2.4	3.2	0.1000	9	19	164	67	2950	91.6	92.4	92.3	0.73	0.83	0.87	36.3
30	30	40	200L	97.0	6.5	2.4	2.7	0.1703	17	37	226	72	2955	92.5	93.0	92.9	0.75	0.83	0.87	53.6
37	34	46.2	200L	109	7.4	2.6	2.8	0.1900	16	35	255	72	2955	92.6	93.4	93.4	0.73	0.83	0.87	60.4
45	41.4	56.2	225S/M	133	7.6	2.4	3.0	0.2500	12	26	356	75	2965	92.9	93.7	93.7	0.75	0.86	0.89	71.6
55	55	75	250S/M	178	7.0	2.2	2.8	0.3736	14	31	413	75	2960	93.6	93.9	93.9	0.79	0.86	0.89	95.0
75	75	100	280S/M	241	7.0	2.0	2.8	0.8541	28	62	630	77	2975	93.4	94.3	94.3	0.79	0.86	0.89	129
90	90	125	280S/M	289	7.0	2.0	2.8	0.9386	25	55	653	77	2975	94.0	94.6	94.6	0.79	0.86	0.89	154
110	110	150	315S/M	353	7.3	2.0	2.9	1.67	24	53	874	77	2980	94.3	94.9	94.9	0.79	0.86	0.89	188
132	121	164	315S/M	387	7.9	2.1	3.1	1.96	21	46	931	77	2980	94.2	95.0	95.1	0.77	0.87	0.90	204
150	138	187	315S/M	442	8.1	2.3	3.0	1.96	23	50	940	77	2980	94.0	94.7	94.8	0.75	0.85	0.88	238
160	147	199	315S/M	471	8.2	2.3	3.1	2.24	23	50	995	77	2980	94.4	95.3	95.4	0.77	0.87	0.90	247
185	170	230	315S/M	545	8.3	2.3	3.3	2.46	16	35	1032	77	2980	94.7	95.4	95.5	0.76	0.86	0.89	289
200	184	250	315L	589	8.2	2.5	3.0	2.68	21	46	1200	78	2980	94.9	95.4	95.5	0.79	0.88	0.90	309
220	202	274	315L	647	8.5	2.6	3.0	2.98	14	30	1228	78	2980	94.8	95.4	95.5	0.78	0.87	0.90	339
250	230	315	315L	737	8.5	2.6	3.0	3.42	17	37	1316	78	2980	95.0	95.5	95.6	0.81	0.89	0.91	381
280	258	351	315L	827	8.6	2.5	3.0	4.17	12	26	1442	78	2980	95.0	95.6	95.6	0.82	0.90	0.91	427
300	276	375	315L	884	8.1	2.7	2.7	4.17	18	39	1442	86	2980	95.1	95.5	95.6	0.81	0.88	0.90	463
315	290	394	355M/L ⁽⁵⁾	928	8.5	2.2	2.8	5.60	23	50	1777	80	2985	95.0	95.6	95.6	0.84	0.91	0.92	475
330	304	413	355M/L	973	7.6	2.6	2.6	6.03	20	44	1838	80	2985	95.2	95.6	95.6	0.86	0.90	0.90	509
355	327	444	355M/L ⁽⁵⁾	1046	8.6	2.3	3.0	6.01	14	30	1838	80	2985	95.1	95.6	95.6	0.84	0.91	0.91	541
370	340	462	355A/B ⁽⁵⁾	1088	8.6	2.7	3.0	6.76	40	88	2046	83	2985	95.4	96.2	96.4	0.82	0.89	0.90	566
400	400	550	355A/B ⁽⁵⁾	1280	7.6	2.4	2.8	6.76	31	68	2043	83	2985	95.8	96.2	96.4	0.85	0.89	0.91	658
450	450	610	355A/B ⁽⁵⁾	1440	7.5	2.5	2.7	7.40	31	68	2160	83	2985	95.8	96.2	96.6	0.85	0.90	0.91	739

Notes:

(5) Fitted with air deflector in the drive end side.

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) * 9555 / n (rpm)$.

W22 Marine Motors - High Efficiency - IE2 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	
kW	kW	HP																		
II pole																				
0.12	0.12	0.16	2765	54.7	60.8	60.9	0.57	0.71	0.79	0.38	56	3415	50.5	57.5	59.5	0.51	0.63	0.72	0.35	
0.18	0.18	0.25	2760	58.0	63.0	64.0	0.61	0.75	0.83	0.51	56	3435	55.9	59.4	65.0	0.55	0.65	0.74	0.46	
0.25	0.25	0.33	2740	60.3	64.1	65.0	0.63	0.76	0.84	0.69	56	3405	57.5	63.0	66,0 ⁽²⁾	0.56	0.67	0.76	0.62	
0.37	0.37	0.5	2805	69.0	70.1	70.3	0.66	0.79	0.87	0.90	56	3455	66.0	70.0	72.0	0.59	0.72	0.82	0.78	
0.55	0.55	0.75	2750	70.8	71.9	74.1	0.73	0.85	0.91	1.24	60	3410	68.0	72.0	74.0	0.65	0.79	0.86	1.08	
0.75	0.75	1	2770	77.7	78.0	78.0	0.66	0.81	0.87	1.68	60	3420	74.0	77.0	78.5	0.60	0.75	0.83	1.44	
1.1	1	1.3	2800	77.7	79.6	79.7	0.70	0.82	0.86	2.24	62	3445	75.0	79.2	81,6 ⁽²⁾	0.63	0.76	0.83	1.88	
1.5	1.3	1.8	2855	79.7	81.6	81.7	0.65	0.77	0.84	3.06	62	3510	77.7	81.7	83,6 ⁽²⁾	0.57	0.71	0.79	2.62	
2.2	2.0	3	2840	82.9	83.9	83.4	0.66	0.78	0.84	4.39	68	3475	81.3	84.0	85.2	0.59	0.71	0.79	3.77	
3	3	4	2865	84.9	85.0	85.0	0.76	0.85	0.88	6.09	68	3495	82.5	85.5	87.5	0.67	0.80	0.86	5.12	
4	3.6	4.9	2880	85.7	86.5	86.0	0.75	0.86	0.90	7.22	68	3510	83.3	86.1	87,3 ⁽²⁾	0.68	0.80	0.86	6.15	
5.5	5.5	7.5	2900	87.1	88.0	87.6	0.74	0.83	0.88	10.8	71	3520	85.5	87.5	88.5	0.66	0.78	0.84	9.29	
7.5	6.9	9.3	2910	87.8	88.7	88.3	0.74	0.84	0.88	13.4	69	3525	85.8	88.2	89,3 ⁽²⁾	0.67	0.80	0.86	11.2	
9.2	8.4	11.5	2915	88.4	89.3	89.1	0.72	0.84	0.88	16.4	72	3530	86.9	89.2	90.1	0.65	0.78	0.85	13.8	
11	10.1	13.6	2935	89.9	90.6	90.3	0.72	0.83	0.88	19.3	72	3560	88.6	90.4	90.9	0.66	0.79	0.85	16.4	
15	13.8	18.8	2950	91.0	91.5	91.1	0.73	0.83	0.87	26.4	72	3545	89.5	91.1	91.6	0.65	0.78	0.85	22.2	
18.5	17	23	2935	91.4	91.9	91.7	0.71	0.82	0.87	32.4	72	3555	89.9	91.4	92.2	0.64	0.76	0.83	27.9	
22	20.2	27.4	2945	91.9	92.3	92.0	0.76	0.85	0.89	37.5	72	3555	90.8	92.1	92.4	0.71	0.82	0.86	31.9	
30	30	40	2950	92.7	92.9	92.6	0.79	0.85	0.88	55.9	72	3560	91.7	92.4	93.0	0.73	0.83	0.87	46.5	
37	34	46.2	2950	92.9	93.4	93.2	0.77	0.86	0.88	63.0	76	3560	92.0	93.0	93.1	0.70	0.82	0.87	52.7	
45	41.4	56.2	2960	93.1	93.6	93.3	0.79	0.88	0.90	74.9	76	3565	91.6	92.7	93.0	0.73	0.85	0.89	62.7	
55	55	75	2955	93.8	93.8	93.6	0.83	0.88	0.90	99.2	79	3565	92.4	93.0	93.6	0.76	0.86	0.90	81.9	
75	75	100	2970	93.6	94.3	94.1	0.82	0.88	0.90	135	79	3575	91.7	93.0	93.6	0.74	0.84	0.88	114	
90	90	125	2970	94.2	94.6	94.4	0.83	0.88	0.90	161	79	3580	92.4	93.6	94.5	0.76	0.86	0.90	133	
110	110	150	2975	94.5	94.9	94.8	0.83	0.88	0.90	196	81	3580	92.4	94.1	94.5	0.76	0.86	0.90	162	
132	121	164	2975	94.4	95.0	95.0	0.80	0.89	0.91	213	81	3580	92.5	94.0	94.8	0.72	0.83	0.88	182	
150	138	187	2980	93.9	94.8	94.8	0.77	0.86	0.89	248	81	3580	92.9	94.5	94,9 ⁽²⁾	0.73	0.83	0.87	209	
160	147	199	2975	94.5	95.3	95.3	0.80	0.89	0.91	257	81	3580	90.6	93.0	94,6 ⁽²⁾	0.75	0.85	0.89	219	
185	170	230	2975	94.9	95.4	95.4	0.80	0.88	0.90	301	81	3580	91.6	93.6	94,9 ⁽²⁾	0.79	0.88	0.91	247	
200	184	250	2975	94.9	95.3	95.3	0.82	0.90	0.91	322	81	3580	93.8	94.9	95,3 ⁽²⁾	0.77	0.87	0.90	269	
220	202	274	2975	94.9	95.4	95.4	0.80	0.89	0.91	354	84	3580	93.8	94.9	95,3 ⁽²⁾	0.75	0.86	0.90	296	
250	230	315	2980	95.0	95.4	95.4	0.83	0.90	0.91	402	84	3580	94.1	95.0	95,3 ⁽²⁾	0.78	0.88	0.91	332	
280	258	351	2975	95.1	95.5	95.5	0.84	0.91	0.91	450	84	3580	94.4	95.2	95.4	0.80	0.89	0.91	372	
300	276	375	2975	95.0	95.5	95.5	0.85	0.91	0.91	482	84	3580	94.8	95.4	95.4	0.80	0.89	0.91	399	
315	290	394	2980	94.3	95.1	95.4	0.87	0.92	0.92	501	84	3580	94.6	95.3	95.5	0.83	0.90	0.91	418	
330	304	413	2980	95.0	95.4	95.4	0.87	0.91	0.91	531	84	3580	94.6	95.2	95.5	0.83	0.89	0.91	438	
355	327	444	2980	95.1	95.5	95.5	0.86	0.92	0.91	570	84	3585	93.8	94.9	95,3 ⁽²⁾	0.82	0.90	0.92	467	
370	340	462	2980	95.4	96.1	96.2	0.84	0.90	0.91	590	84	3585	94.2	95.0	95,3 ⁽²⁾	0.86	0.92	0.92	487	
400	400	550	2985	95.9	96.2	96.3	0.87	0.90	0.91	694	84	3585	95.0	95.8	96.2	0.82	0.89	0.91	573	
450	450	610	2985	95.9	96.2	96.5	0.87	0.91	0.91	779	84	3585	95.0	95.8	96.2	0.83	0.90	0.91	645	

Notes:

(2) Motors do not comply with IE2 (60Hz) efficiency values from IEC 60034-30-1 at 50°C. According to the standard they comply with IE1.

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - High Efficiency - IE2 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*		Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque Tl/Tn	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)
									Rated speed (rpm)	% of full load										
										Efficiency			Power factor							
										50			75	100	50	75	100			
kW	kW	HP						Hot	Cold											
IV pole																				
0.12	0.12	0.16	63	0.83	3.9	1.8	2.0	0.0004	51	112	7.0	44	1380	55.0	58.0	59.1	0.54	0.67	0.77	0.38
0.18	0.18	0.25	63	1.26	4.1	2.0	2.0	0.0006	40	88	7.2	44	1370	53.0	59.0	64.7	0.50	0.63	0.72	0.59
0.25	0.25	0.33	71	1.71	4.5	2.0	2.2	0.0007	68	150	10.2	43	1400	59.0	65.0	68.5	0.49	0.62	0.71	0.78
0.37	0.34	0.46	71	2.34	4.4	2.1	2.1	0.0008	48	105	10.8	43	1390	61.0	67.4	71.4	0.48	0.61	0.69	1.00
0.55	0.55	0.75	80	3.70	6.0	2.2	2.5	0.0029	18	40	15.0	44	1420	72.0	73.8	77.1	0.60	0.73	0.82	1.31
0.75	0.75	1	80	5.08	6.0	2.6	2.6	0.0029	15	33	15.0	44	1410	79.0	79.6	79.8	0.63	0.76	0.81	1.63
1.1	1.1	1.5	90S	7.30	6.5	2.1	2.6	0.0049	14	31	20.8	49	1440	81.0	81.8	81.8	0.62	0.75	0.81	2.40
1.5	1.5	2	90L	9.95	6.3	2.0	2.8	0.0055	10	22	22.0	49	1440	81.5	83.0	83.0	0.57	0.71	0.80	3.26
2.2	2.2	3	100L	14.7	7.0	3.1	3.2	0.0105	11	24	34.0	53	1435	83.0	84.5	84.5	0.60	0.73	0.81	4.64
3	2.7	3.7	100L	18.5	6.9	3.4	3.6	0.0097	14	30	34.0	53	1425	84.2	85.8	85.7	0.60	0.73	0.80	5.81
4	3.6	4.9	112M	24.3	7.1	2.1	2.8	0.0156	13	28	43.0	56	1445	85.4	86.8	86.8	0.59	0.72	0.79	7.75
5.5	5.5	7.5	132S	35.9	7.3	1.9	3.0	0.0528	8	17	67.0	60	1460	87.5	88.0	88.1	0.68	0.80	0.86	10.5
7.5	6.9	9.3	132M	45.1	7.7	2.1	3.2	0.0528	8	17	68.0	60	1460	88.1	89.2	89.1	0.68	0.80	0.85	13.1
11	10.1	13.6	160M	65.6	6.8	2.5	3.0	0.1048	10	22	105	61	1470	88.5	90.1	90.3	0.61	0.75	0.81	19.9
15	13.8	18.8	160L	90.0	6.6	2.5	3.0	0.1255	10	22	125	61	1465	90.0	91.1	91.1	0.62	0.75	0.81	26.9
18.5	18.5	25	180M	121	6.6	2.4	2.8	0.1657	14	31	164	61	1465	91.5	91.8	91.6	0.68	0.78	0.83	35.1
22	20.2	27.4	180L	131	7.3	2.8	3.1	0.2006	15	33	186	61	1465	91.8	92.6	92.4	0.66	0.79	0.84	37.6
30	27.6	37.5	200L	179	6.8	2.3	2.8	0.2929	16	35	222	65	1470	92.2	93.0	92.9	0.64	0.77	0.82	52.3
37	34	46.2	225S/M	220	7.2	2.3	2.9	0.4438	12	26	342	66	1475	92.6	93.3	93.3	0.71	0.82	0.86	61.2
45	41.4	56.2	225S/M	268	7.4	2.6	2.9	0.5177	10	22	363	66	1475	92.9	93.7	93.7	0.71	0.82	0.86	74.1
55	55	75	250S/M	356	6.4	2.2	2.7	0.8118	14	31	444	66	1475	93.6	93.9	94.0	0.75	0.84	0.87	97.1
75	75	100	280S/M	483	7.2	2.0	2.7	1.64	22	48	639	69	1485	93.8	94.4	94.4	0.74	0.83	0.86	133
90	90	125	280S/M	579	7.2	2.1	2.7	1.88	20	44	673	69	1485	94.1	94.7	94.7	0.76	0.84	0.87	158
110	110	150	315S/M	705	6.6	2.3	2.5	2.57	26	57	887	71	1490	94.3	95.0	95.0	0.74	0.83	0.86	194
132	132	175	315S/M	846	6.6	2.1	2.4	3.12	22	48	953	71	1490	94.6	95.2	95.2	0.76	0.84	0.87	230
150	138	187	315S/M	885	6.7	2.3	2.6	3.33	30	66	983	71	1490	94.4	95.5	95.5	0.74	0.83	0.87	239
160	147	199	315S/M	942	7.2	2.3	2.6	3.56	20	44	1012	71	1490	94.6	95.3	95.4	0.73	0.84	0.87	255
185	185	250	315S/M	1186	6.8	2.4	2.4	3.98	18	39	1114	71	1490	94.9	95.6	95.6	0.75	0.83	0.86	325
200	184	250	315L	1180	7.3	2.6	2.6	4.43	17	37	1216	74	1490	94.8	95.5	95.6	0.73	0.84	0.87	319
220	202	274	315L	1295	7.6	2.8	2.6	4.88	14	30	1333	74	1490	95.0	95.6	95.7	0.73	0.83	0.87	350
250	230	315	315L	1474	7.6	2.8	2.6	5.44	13	28	1399	74	1490	95.1	95.7	95.7	0.74	0.84	0.88	394
260	260	350	355M/L	1667	6.8	2.1	2.4	7.73	18	40	1470	76	1490	95.4	95.8	95.8	0.73	0.82	0.85	461
280	258	351	315L	1654	7.8	2.8	2.6	6.20	12	26	1496	74	1490	95.2	95.8	95.8	0.73	0.83	0.87	446
300	276	375	355M/L	1769	7.8	2.3	2.6	8.59	18	39	1510	76	1490	95.3	95.8	95.8	0.71	0.81	0.85	489
315	290	394	355M/L	1859	7.7	2.6	2.6	8.94	14	30	1643	76	1490	95.3	95.8	95.8	0.70	0.82	0.85	513
330	304	413	355M/L	1949	7.4	2.3	2.6	9.84	17	37	1769	76	1490	95.3	95.8	95.8	0.72	0.82	0.86	531
355	327	444	355M/L ⁽⁵⁾	2097	7.5	2.6	2.5	10.73	15	33	1752	76	1490	95.4	95.8	95.9	0.72	0.82	0.86	571
370	340	462	355M/L ⁽⁵⁾	2180	7.6	2.6	2.6	11.63	15	33	1971	76	1490	95.3	95.9	95.9	0.72	0.82	0.86	595
400	368	500	355M/L ⁽⁵⁾	2359	8.4	2.8	2.6	11.63	11	24	1888	76	1490	95.4	95.8	95.9	0.70	0.81	0.85	651
450	414	562	355A/B ⁽⁵⁾	2654	7.9	2.7	3.0	13.22	20	44	2089	76	1490	95.5	96.1	96.2	0.66	0.78	0.83	748
500	500	680	355A/B ⁽⁵⁾	3206	7.3	2.4	2.7	14.60	17	37	2246	76	1490	95.9	96.3	96.3	0.72	0.81	0.85	882

Notes:

(5) Fitted with air deflector in the drive end side.

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) * 9555 / n (rpm)$.

W22 Marine Motors - High Efficiency - IE2 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	
kW	kW	HP																		
IV pole																				
0.12	0.12	0.16	1360	56.8	58.7	59.1	0.58	0.71	0.80	0.39	48	1695	54.5	58.5	62,0 ⁽²⁾	0.51	0.63	0.72	0.34	
0.18	0.18	0.25	1350	60.4	61.3	64.7	0.54	0.67	0.76	0.60	48	1690	58.5	62.0	64.0	0.51	0.63	0.72	0.49	
0.25	0.25	0.33	1380	60.0	65.0	68.5	0.53	0.66	0.74	0.80	48	1720	60.0	65.0	68,0 ⁽²⁾	0.48	0.59	0.67	0.75	
0.37	0.34	0.46	1375	63.6	68.8	71.7	0.52	0.64	0.73	0.99	47	1715	60.0	66.4	70.6	0.46	0.57	0.67	0.92	
0.55	0.55	0.75	1410	73.0	73.1	77.1	0.65	0.77	0.85	1.34	47	1730	71.0	75.7	76.0	0.57	0.70	0.79	1.15	
0.75	0.75	1	1400	80.1	79.9	79.8	0.68	0.80	0.84	1.66	48	1720	78.5	80.0	82.5	0.61	0.74	0.79	1.41	
1.1	1.1	1.5	1432	81.9	81.8	81.5	0.67	0.78	0.83	2.47	51	1745	80.0	82.5	84.0	0.59	0.73	0.80	2.05	
1.5	1.5	2	1430	82.8	83.2	82.8	0.63	0.77	0.83	3.32	51	1745	81.5	84.0	84.0	0.55	0.69	0.78	2.87	
2.2	2.2	3	1425	83.5	84.3	84.3	0.65	0.77	0.83	4.80	51	1745	83.0	85.5	87.5	0.58	0.71	0.80	3.94	
3	2.7	3.7	1420	84.6	85.8	85.6	0.64	0.76	0.83	5.90	54	1735	83.3	86.1	87,3 ⁽²⁾	0.58	0.71	0.79	5.02	
4	3.6	4.9	1440	85.8	86.8	86.7	0.64	0.76	0.81	7.96	54	1750	85.2	87.1	87.6	0.56	0.69	0.77	6.85	
5.5	5.5	7.5	1455	88.1	87.7	87.7	0.73	0.83	0.88	10.8	56	1765	86.8	88.0	89.5	0.65	0.78	0.85	9.07	
7.5	6.9	9.3	1455	88.3	89.0	88.8	0.72	0.82	0.86	13.7	58	1765	88.3	89.8	90.3	0.64	0.77	0.84	11.4	
11	10.1	13.6	1465	89.2	90.2	90.0	0.65	0.78	0.84	20.3	58	1775	87.8	90.0	90,8 ⁽²⁾	0.59	0.73	0.80	17.4	
15	13.8	18.8	1465	90.5	91.1	90.8	0.66	0.78	0.84	27.4	64	1770	89.4	91.1	91.6	0.59	0.73	0.80	23.6	
18.5	18.5	25	1460	91.8	91.7	91.2	0.72	0.81	0.85	36.3	64	1770	91.0	92.4	92.4	0.65	0.77	0.83	30.3	
22	20.2	27.4	1465	92.2	92.6	92.1	0.70	0.82	0.86	38.8	64	1770	91.3	92.4	92.5	0.63	0.77	0.84	32.6	
30	27.6	37.5	1465	92.5	93.1	92.6	0.69	0.80	0.84	53.9	66	1770	92.0	93.0	93.1	0.62	0.75	0.82	45.3	
37	34	46.2	1470	92.9	93.3	93.0	0.75	0.85	0.87	63.9	66	1775	91.8	93.1	93.5	0.68	0.81	0.86	53.1	
45	41.4	56.2	1470	93.3	93.7	93.4	0.75	0.85	0.88	76.5	67	1775	92.2	93.3	93.6	0.68	0.81	0.86	64.5	
55	55	75	1470	93.8	93.8	93.7	0.79	0.86	0.88	101	67	1775	93.0	93.6	94.1	0.72	0.83	0.87	84.3	
75	75	100	1480	94.2	94.5	94.2	0.78	0.86	0.87	139	68	1785	92.4	94.1	94.5	0.72	0.82	0.86	116	
90	90	125	1480	94.4	94.7	94.5	0.80	0.86	0.88	164	73	1780	93.0	94.1	94.5	0.74	0.84	0.88	136	
110	110	150	1490	94.6	94.9	94.9	0.78	0.86	0.88	200	73	1790	93.0	94.5	95.0	0.72	0.84	0.87	167	
132	132	175	1485	94.8	95.2	95.0	0.79	0.86	0.88	240	75	1790	93.6	94.5	95.0	0.73	0.84	0.87	200	
150	138	187	1490	94.8	95.5	95.3	0.77	0.85	0.88	250	75	1780	93.1	94.8	95.3	0.70	0.80	0.85	213	
160	147	199	1485	94.8	95.4	95.3	0.77	0.86	0.88	266	75	1790	93.6	94.6	95.0	0.71	0.82	0.87	223	
185	185	250	1485	95.1	95.6	95.5	0.79	0.85	0.87	338	75	1790	94.1	95.0	95.4	0.72	0.83	0.86	283	
200	184	250	1485	95.0	95.5	95.5	0.77	0.86	0.88	332	78	1790	93.8	94.9	95.3	0.71	0.83	0.87	278	
220	202	274	1490	95.2	95.7	95.7	0.77	0.86	0.88	365	78	1790	94.4	95.2	95.4	0.70	0.82	0.87	306	
250	230	315	1490	95.4	95.8	95.9	0.77	0.86	0.89	409	78	1790	94.2	95.2	95.7	0.71	0.83	0.87	346	
260	260	350	1490	95.6	95.7	95.7	0.77	0.84	0.86	480	78	1790	95.0	95.4	95.8	0.70	0.81	0.85	401	
280	258	351	1490	95.4	95.8	95.8	0.76	0.86	0.88	464	78	1790	94.6	95.4	95.7	0.70	0.82	0.87	388	
300	276	375	1490	95.3	95.7	95.7	0.74	0.84	0.87	503	78	1790	94.7	95.4	95.7	0.69	0.80	0.85	425	
315	290	394	1490	95.4	95.8	95.7	0.73	0.84	0.87	528	78	1790	95.0	95.7	95.8	0.74	0.84	0.87	436	
330	304	413	1485	95.3	95.7	95.7	0.70	0.80	0.84	573	78	1790	94.9	95.6	95.8	0.67	0.79	0.85	467	
355	327	444	1490	95.4	95.8	95.7	0.75	0.85	0.87	595	78	1790	94.9	95.6	95.8	0.68	0.80	0.85	503	
370	340	462	1490	94.8	95.5	95.7	0.75	0.84	0.87	621	78	1790	95.2	95.8	95.9	0.72	0.83	0.86	518	
400	368	500	1490	95.5	95.9	95.8	0.74	0.84	0.87	670	78	1790	94.9	95.6	95.8	0.68	0.80	0.85	567	
450	414	562	1490	95.8	96.2	96.2	0.70	0.82	0.86	760	78	1790	95.0	95.8	96.1	0.63	0.77	0.83	651	
500	500	680	1490	96.1	96.3	96.3	0.76	0.84	0.87	907	81	1790	95.4	96.2	96.2	0.69	0.81	0.85	767	

Notes:

(2) Motors do not comply with IE2 (60Hz) efficiency values from IEC 60034-30-1 at 50°C. According to the standard they comply with IE1.

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - High Efficiency - IE2 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*		Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque Tl/Tn	Inertia J (kgm ²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V							Full load current In (A)
									Hot	Cold			Rated speed (rpm)	% of full load			Power factor			
														50	75	100	50	75	100	
0.12	0.12	0.16	63	1.27	3.0	1.9	2.0	0.0006	52	114	7.2	43	905	42.0	50.0	52.0	0.43	0.53	0.63	0.53
0.18	0.18	0.25	71	1.93	3.2	2.0	2.0	0.0008	96	211	9.5	43	890	52.0	58.0	59.0	0.40	0.51	0.61	0.72
0.25	0.23	0.31	71	2.51	3.3	2.1	2.3	0.0008	70	153	10.0	43	875	52.2	58.2	61.3	0.36	0.45	0.55	0.99
0.37	0.37	0.5	80	3.88	3.9	1.8	2.0	0.0022	27	59	10.5	43	910	63.0	67.0	67.6	0.51	0.66	0.76	1.05
0.55	0.51	0.69	80	5.21	4.7	2.5	2.7	0.0030	21	46	14.0	43	935	63.8	69.8	72.6	0.48	0.61	0.69	1.47
0.75	0.75	1	90S	7.75	4.5	2.0	2.1	0.0055	23	51	19.0	45	925	74.5	76.0	76.0	0.51	0.64	0.73	1.95
1.1	1	1.3	90L	10.3	4.9	2.5	2.4	0.0066	17	37	23.0	45	930	75.0	78.0	78.3	0.47	0.60	0.70	2.67
1.5	1.5	2	100L	15.3	5.0	2.0	2.4	0.0110	23	51	28.5	44	940	79.5	80.0	80.0	0.51	0.64	0.73	3.71
2.2	2.2	3	112M	21.8	7.1	3.5	3.9	0.0257	17	37	38.0	52	965	80.8	82.7	83.5	0.41	0.54	0.64	5.94
3	2.7	3.7	132S	27.3	6.0	2.1	2.6	0.0359	31	68	57.0	53	965	81.7	83.6	83.7	0.47	0.60	0.69	6.90
4	3.6	4.9	132M	36.4	6.4	2.2	2.7	0.0453	21	46	68.0	53	965	83.2	84.9	84.9	0.48	0.61	0.70	8.94
5.5	5	6.8	132M	50.1	6.8	2.4	2.9	0.0604	19	41	72.0	53	965	84.8	86.2	86.2	0.48	0.61	0.70	12.1
7.5	7.5	10	160M	73.9	5.8	2.0	2.6	0.1229	17	37	113	56	970	88.3	88.7	88.3	0.64	0.76	0.82	15.0
9.2	8.4	11.5	160L	83.3	6.5	2.3	2.8	0.1492	14	30	127	56	970	87.9	89.1	88.8	0.61	0.74	0.81	16.9
11	10.1	13.6	160L	99.4	6.4	2.5	2.9	0.1664	13	28	136	56	970	88.5	89.6	89.4	0.59	0.72	0.79	20.6
15	13.8	18.8	180L	135	7.5	2.6	3.2	0.2565	7	15	174	56	970	89.8	90.7	90.5	0.67	0.80	0.85	25.8
18.5	17	23	200L	166	6.1	2.2	2.7	0.3517	15	33	214	60	975	90.6	91.5	91.3	0.64	0.76	0.81	33.2
22	20.2	27.4	200L	197	6.4	2.3	2.9	0.4037	14	30	225	60	975	91.0	91.8	91.6	0.61	0.75	0.81	39.3
30	27.6	37.5	225S/M	267	7.3	2.2	2.7	0.7192	12	26	359	63	985	92.2	92.9	92.7	0.67	0.80	0.85	50.5
37	37	50	250S/M	359	6.7	2.2	2.5	1.10	16	35	438	64	985	93.0	93.2	93.0	0.73	0.82	0.86	66.8
45	45	60	280S/M	437	6.2	2.0	2.5	2.02	26	57	596	65	985	93.4	93.6	93.4	0.68	0.78	0.82	84.8
55	55	75	280S/M	534	6.2	2.0	2.4	2.36	22	48	629	65	985	93.6	93.9	93.8	0.68	0.79	0.83	102
75	69	93.7	315S/M	665	6.6	2.0	2.3	3.82	23	50	837	67	990	93.6	94.4	94.3	0.66	0.78	0.82	128
90	82.8	112	315S/M	799	6.5	2.0	2.2	4.53	22	48	893	67	990	94.1	94.7	94.6	0.68	0.80	0.83	152
110	110	150	315S/M	1062	6.1	2.0	2.2	5.45	20	44	966	67	990	94.5	94.9	94.8	0.72	0.80	0.84	199
132	121	164	315S/M	1167	6.9	2.3	2.6	6.35	17	37	1036	67	990	94.3	95.0	95.1	0.67	0.79	0.83	222
150	138	187	355M/L	1325	6.0	1.9	2.1	7.40	38	83	1340	73	995	93.6	94.6	94.9	0.61	0.73	0.78	269
160	147	199	315L	1418	7.1	2.3	2.6	7.60	14	30	1228	68	990	94.6	95.2	95.2	0.67	0.79	0.83	268
185	170	230	315L	1640	7.4	2.5	2.6	8.86	12	26	1358	68	990	94.8	95.4	95.4	0.66	0.78	0.82	314
200	184	250	315L	1775	7.5	2.6	2.7	10.12	12	26	1488	68	990	94.9	95.4	95.4	0.66	0.78	0.82	339
220	202	274	315L	1949	7.3	2.5	2.5	11.00	14	30	1621	68	990	95.0	95.5	95.5	0.66	0.78	0.82	373
250	230	315	355M/L	2219	6.4	2.1	2.3	13.91	34	74	1789	73	990	95.0	95.6	95.5	0.62	0.75	0.80	434
260	239	324	355M/L	2306	6.4	2.2	2.3	12.71	34	74	1789	73	990	95.0	95.6	95.5	0.62	0.75	0.80	451
280	258	351	355M/L	2490	6.7	2.3	2.3	13.86	27	59	1884	73	990	95.1	95.7	95.7	0.61	0.74	0.79	491
300	276	375	355M/L	2663	6.7	2.3	2.3	14.32	30	66	1900	73	990	95.2	95.7	95.7	0.60	0.72	0.78	533
315	290	394	355M/L ⁽⁵⁾	2784	6.7	2.3	2.3	15.02	28	61	1979	73	995	95.2	95.7	95.7	0.62	0.75	0.80	546
355	355	480	355A/B ⁽⁵⁾	3426	6.2	2.0	2.3	17.10	29	64	2200	73	990	95.3	95.7	95.8	0.63	0.74	0.79	677
370	340	462	355A/B ⁽⁵⁾	3281	6.4	2.3	2.5	17.99	25	55	2300	73	990	95.1	95.8	95.9	0.60	0.72	0.78	656
400	368	500	355A/B ⁽⁵⁾	3551	6.5	2.1	2.5	18.92	29	63	2346	73	990	95.1	95.8	95.9	0.60	0.72	0.78	710

Notes:

(5) Fitted with air deflector in the drive end side.

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) * 9555 / n (rpm)$.

W22 Marine Motors - High Efficiency - IE2 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	
kW	kW	HP																		
0.12	0.12	0.16	895	45.4	52.1	52.9	0.46	0.57	0.67	0.51	47	1115	46.0	50.5	52.5	0.40	0.48	0.56	0.51	
0.18	0.18	0.25	875	54.2	59.0	58.7	0.43	0.55	0.65	0.72	47	1105	52.5	57.5	59.5	0.37	0.46	0.55	0.69	
0.25	0.23	0.31	860	55.7	60.3	61.8	0.39	0.49	0.59	0.96	47	1060	26.0	61.5	63.7	0.37	0.46	0.55	0.97	
0.37	0.37	0.5	895	65.2	67.7	67.7	0.56	0.70	0.80	1.06	47	1120	64.0	68.0	70.0	0.48	0.60	0.70	0.95	
0.55	0.51	0.69	925	66.4	71.0	72.9	0.52	0.64	0.73	1.46	47	1125	64.8	70.8	73.6	0.45	0.56	0.64	1.36	
0.75	0.75	1	915	75.8	75.9	75.9	0.55	0.68	0.76	1.98	49	1135	74.0	78.5	80.0	0.48	0.60	0.69	1.71	
1.1	1	1.3	925	76.6	78.9	78.7	0.52	0.65	0.74	2.64	48	1140	76.1	79.5	80,2 ⁽²⁾	0.45	0.57	0.66	2.40	
1.5	1.5	2	930	80.7	80.1	79.8	0.55	0.69	0.76	3.76	52	1145	80.0	81.5	84,0 ⁽²⁾	0.49	0.61	0.70	3.30	
2.2	2.2	3	960	82.0	83.1	84.2	0.46	0.60	0.68	5.84	52	1170	81.7	84.8	87.5	0.40	0.52	0.61	5.17	
3	2.7	3.7	960	82.8	84.0	83.6	0.52	0.64	0.72	6.97	55	1165	80.5	84.4	86.6	0.45	0.57	0.66	6.06	
4	3.6	4.9	960	84.2	85.3	84.9	0.53	0.65	0.73	9.02	55	1165	83.2	86.1	87.3	0.46	0.58	0.67	7.90	
5.5	5	6.8	960	85.7	86.6	86.2	0.53	0.66	0.73	12.2	55	1165	84.3	87.4	89,0 ⁽²⁾	0.47	0.59	0.67	10.6	
7.5	7.5	10	965	88.7	88.6	87.7	0.68	0.79	0.84	15.5	55	1175	88.5	89.5	89.5	0.61	0.74	0.80	13.1	
9.2	8.4	11.5	965	88.4	89.0	88.4	0.65	0.77	0.83	17.5	59	1175	87.6	89.6	90.1	0.57	0.71	0.79	14.9	
11	10.1	13.6	965	89.2	89.7	89.1	0.63	0.76	0.82	21.0	59	1175	88.9	90.3	90.3	0.55	0.69	0.77	18.2	
15	13.8	18.8	965	90.3	90.6	90.0	0.71	0.83	0.87	26.7	59	1175	89.8	91.0	91.1	0.64	0.77	0.84	22.6	
18.5	17	23	970	91.2	91.6	91.1	0.68	0.79	0.83	34.2	59	1175	90.5	91.7	91.8	0.61	0.74	0.80	29.0	
22	20.2	27.4	970	91.7	92.0	91.5	0.66	0.78	0.83	40.4	62	1175	90.3	91.8	92.3	0.59	0.73	0.80	34.4	
30	27.6	37.5	980	92.4	92.7	92.3	0.71	0.83	0.86	52.8	62	1180	91.1	92.4	92,9 ⁽²⁾	0.67	0.80	0.86	43.3	
37	37	50	980	93.2	93.0	92.6	0.77	0.84	0.87	69.8	66	1185	92.4	93.0	93.0	0.70	0.82	0.86	58.1	
45	45	60	980	93.7	93.6	93.1	0.72	0.81	0.84	87.4	68	1180	92.4	93.6	93.6	0.65	0.77	0.82	73.6	
55	55	75	980	93.8	93.8	93.5	0.72	0.82	0.85	105	68	1185	93.0	93.6	93.6	0.65	0.77	0.83	88.9	
75	69	93.7	990	94.0	94.4	94.2	0.70	0.81	0.84	132	69	1190	92.8	93.9	94.1	0.63	0.76	0.82	112	
90	82.8	112	990	94.4	94.6	94.3	0.72	0.82	0.85	156	69	1190	93.4	94.3	94.5	0.65	0.77	0.83	132	
110	110	150	990	94.7	94.9	94.5	0.76	0.82	0.85	208	70	1190	94.1	94.5	95.0	0.69	0.80	0.84	173	
132	121	164	990	94.7	95.1	94.9	0.72	0.82	0.85	228	70	1190	93.9	94.8	95.0	0.64	0.77	0.83	193	
150	138	187	990	94.2	94.9	94.9	0.65	0.77	0.81	272	70	1195	93.1	94.5	95.0	0.56	0.69	0.76	239	
160	147	199	990	94.9	95.2	95.1	0.71	0.81	0.85	276	70	1190	94.1	95.0	95.3	0.63	0.77	0.83	233	
185	170	230	990	95.1	95.4	95.3	0.70	0.81	0.84	323	77	1190	94.6	95.2	95.4	0.68	0.80	0.84	266	
200	184	250	990	95.1	95.5	95.3	0.70	0.81	0.85	345	77	1190	94.4	95.2	95.4	0.62	0.76	0.82	295	
220	202	274	985	95.1	95.4	95.3	0.70	0.80	0.84	384	77	1190	94.4	95.2	95.4	0.62	0.75	0.82	324	
250	230	315	990	95.2	95.6	95.5	0.67	0.78	0.82	446	77	1190	94.4	95.2	95.4	0.61	0.75	0.80	378	
260	239	324	990	95.2	95.6	95.5	0.67	0.78	0.82	464	77	1190	94.7	95.4	95.4	0.61	0.75	0.80	393	
280	258	351	990	95.3	95.7	95.6	0.65	0.77	0.81	505	77	1190	94.7	95.4	95.4	0.58	0.72	0.79	429	
300	276	375	990	95.5	95.8	95.6	0.62	0.74	0.79	555	77	1190	94.7	95.4	95.4	0.54	0.68	0.75	484	
315	290	394	995	95.4	95.8	95.6	0.66	0.78	0.82	561	77	1190	95.0	95.6	95.7	0.62	0.75	0.80	475	
355	355	480	990	95.4	95.7	95.7	0.64	0.75	0.79	713	77	1190	94.5	95.4	95.8	0.58	0.71	0.77	604	
370	340	462	990	95.3	95.9	95.8	0.62	0.74	0.80	674	77	1190	95.2	95.7	95.7	0.62	0.74	0.79	565	
400	368	500	990	95.4	96.0	95.9	0.64	0.76	0.80	728	77	1190	94.8	95.7	95.8	0.57	0.71	0.77	626	

Notes:

(2) Motors do not comply with IE2 (60Hz) efficiency values from IEC 60034-30-1 at 50°C. According to the standard they comply with IE1.

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - High Efficiency - IE2 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*			Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque Tl/Tn	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)
										Hot	Cold			Rated speed (rpm)	% of full load						
	Efficiency														Power factor						
	50	75	100												50	75	100				
0.12	0.12	0.16	71	1.76	2.3	1.9	2.0	0.0008	172	378	9.5	41	650	40.0	48.0	50.0	0.35	0.43	0.52	0.67	
0.18	0.18	0.25	80	2.57	3.1	1.9	2.1	0.0024	48	106	11.5	42	670	47.0	53.0	55.0	0.44	0.55	0.65	0.73	
0.25	0.25	0.33	80	3.57	3.2	1.9	2.1	0.0029	42	92	13.5	42	670	49.0	55.0	57.0	0.43	0.55	0.66	0.96	
0.37	0.37	0.5	90S	5.12	3.5	1.8	2.0	0.0044	37	81	18.0	43	690	56.0	62.0	62.0	0.41	0.52	0.62	1.39	
0.55	0.51	0.69	90L	7.06	3.6	2.0	2.1	0.0060	31	68	22.0	43	690	59.5	63.8	64.3	0.42	0.54	0.63	1.80	
0.75	0.75	1	100L	10.1	4.6	2.0	2.4	0.0110	42	92	28.5	50	710	71.0	74.0	74.0	0.40	0.52	0.62	2.36	
1.1	1.1	1.5	100L	14.9	4.6	2.1	2.3	0.0127	29	64	30.5	50	705	71.0	75.0	75.0	0.40	0.53	0.62	3.41	
1.5	1.5	2	112M	20.5	4.7	2.4	2.3	0.0202	29	64	39.0	46	700	77.0	79.0	79.0	0.44	0.57	0.67	4.09	
2.2	2	2.7	132S	27.3	5.8	2.4	2.6	0.0592	25	55	62.0	48	705	80.2	81.7	81.3	0.50	0.62	0.70	5.13	
3	3	4	132M	41.0	5.5	2.3	2.4	0.0740	19	42	66.0	48	700	82.0	82.5	82.0	0.54	0.66	0.73	7.23	
4	3.6	4.9	160M	48.5	5.0	2.1	2.3	0.1053	29	63	107	51	725	83.1	85.1	85.2	0.50	0.62	0.70	8.91	
5.5	5	6.8	160M	66.6	5.0	2.1	2.3	0.1404	21	46	120	51	725	84.3	86.0	85.8	0.49	0.63	0.71	11.9	
7.5	6.9	9.3	160L	90.9	5.2	2.3	2.5	0.1756	22	48	139	51	725	85.3	87.0	87.1	0.49	0.63	0.71	16.1	
9.2	8.4	11.5	180M	111	6.4	2.1	2.7	0.2033	11	24	156	51	725	87.5	88.2	87.8	0.60	0.73	0.80	17.3	
11	10.1	13.6	180L	133	6.5	2.2	2.6	0.2439	11	24	175	51	725	87.6	88.5	88.2	0.61	0.75	0.81	20.4	
15	13.8	18.8	200L	180	5.3	2.0	2.1	0.4220	30	66	226	53	730	89.7	90.5	90.2	0.55	0.68	0.75	29.4	
18.5	17	23	225S/M	221	6.8	2.1	2.6	0.6183	17	37	339	56	735	91.2	91.9	91.8	0.62	0.75	0.81	33.0	
22	20.2	27.4	225S/M	262	6.6	2.1	2.6	0.7203	16	35	358	56	735	91.3	92.1	92.1	0.64	0.76	0.81	39.1	
30	27.6	37.5	250S/M	358	7.1	2.2	2.9	1.06	13	28	433	56	735	91.7	92.4	92.4	0.65	0.78	0.82	52.5	
37	34	46.2	280S/M	439	6.0	1.9	2.2	2.25	26	57	614	59	740	92.6	93.5	93.6	0.60	0.73	0.79	66.4	
45	41.4	56.2	280S/M	534	6.2	2.0	2.2	2.70	23	50	660	59	740	93.0	93.8	93.9	0.60	0.73	0.79	80.5	
55	50.6	68.7	315S/M	653	6.2	1.9	2.2	4.02	32	70	851	62	740	93.4	94.2	94.3	0.63	0.75	0.79	98.0	
75	69	93.7	315S/M	890	6.3	1.9	2.2	5.30	30	66	951	62	740	93.7	94.5	94.6	0.65	0.76	0.80	131	
90	82.8	112	315S/M	1069	6.4	2.0	2.2	6.22	26	57	1020	62	740	94.0	94.8	94.8	0.64	0.76	0.80	157	
110	101	137	315L	1304	6.4	2.0	2.2	7.83	28	61	1244	68	740	94.3	94.9	94.9	0.63	0.75	0.79	194	
132	121	164	315L	1562	6.8	2.1	2.5	9.29	20	44	1352	68	740	94.5	95.1	95.2	0.61	0.74	0.79	233	
160	147	199	355M/L	1885	6.4	1.6	2.5	14.39	54	118	1616	70	745	94.9	95.6	95.6	0.59	0.73	0.79	281	
185	170	230	355M/L	2180	6.5	1.6	2.5	16.53	48	105	1691	70	745	94.9	95.6	95.6	0.58	0.71	0.77	333	
200	184	250	355M/L	2359	6.8	1.7	2.5	18.37	48	105	1765	70	745	95.0	95.6	95.6	0.59	0.73	0.79	351	
220	202	274	355M/L	2590	6.8	1.6	2.5	19.90	48	105	1875	70	745	95.1	95.7	95.7	0.60	0.73	0.78	391	
250	250	340	355A/B ⁽⁵⁾	3206	6.2	1.5	2.4	21.70	47	103	2092	70	745	95.1	95.7	95.8	0.62	0.73	0.79	477	
280	258	351	355A/B ⁽⁵⁾	3308	8.0	2.1	3.0	25.03	44	96	2279	70	745	94.8	95.6	95.8	0.58	0.71	0.78	497	

Notes:
 (5) Fitted with air deflector in the drive end side.
 * Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).
 ** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) \cdot 9555 / n (rpm)$.

W22 Marine Motors - High Efficiency - IE2 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	
kW	kW	HP																		
VIII pole																				
0.12	0.12	0.16	635	42.9	50.1	50.8	0.37	0.47	0.56	0.64	45	815	42.0	48.0	52.5	0.32	0.40	0.47	0.61	
0.18	0.18	0.25	660	49.3	54.4	54.9	0.47	0.59	0.69	0.72	46	830	48.0	52.5	57.5	0.39	0.48	0.57	0.69	
0.25	0.25	0.33	660	51.1	56.2	56.8	0.47	0.59	0.70	0.96	46	830	50.5	55.0	59.5	0.40	0.49	0.58	0.91	
0.37	0.37	0.50	680	59.5	63.8	62.4	0.44	0.56	0.67	1.34	47	850	57.5	64.0	66.0	0.37	0.47	0.56	1.26	
0.55	0.51	0.69	680	62.3	65.1	64.3	0.45	0.58	0.67	1.79	47	850	59.9	65.8	67.7	0.38	0.49	0.58	1.62	
0.75	0.75	1	705	73.0	75.0	73.9	0.44	0.57	0.65	2.37	47	865	72.0	75.5	75.5	0.38	0.49	0.58	2.15	
1.1	1.1	1.5	700	73.6	76.2	74.9	0.45	0.57	0.66	3.38	54	860	72.0	75.5	77.0	0.38	0.49	0.58	3.09	
1.5	1.5	2	695	78.8	79.6	78.5	0.49	0.61	0.70	4.15	54	855	77.0	80.0	82.5	0.42	0.54	0.62	3.68	
2.2	2	2.7	700	81.3	81.8	80.5	0.55	0.67	0.74	5.16	52	860	78.9	82.2	83,7 ⁽²⁾	0.47	0.59	0.68	4.46	
3	3	4	690	82.7	82.4	80.8	0.58	0.70	0.75	7.52	52	855	82.5	84.0	84,0 ⁽²⁾	0.51	0.63	0.71	6.31	
4	3.6	4.9	720	84.0	85.3	84.7	0.53	0.66	0.73	9.04	52	880	83.4	86.1	86.6	0.46	0.59	0.68	7.84	
5.5	5	6.8	720	85.3	86.2	85.4	0.53	0.66	0.73	12.3	52	875	84.8	87.2	87.6	0.46	0.59	0.68	10.6	
7.5	6.9	9.3	720	86.3	87.3	86.9	0.53	0.67	0.74	16.3	54	875	84.7	87.3	88,3 ⁽²⁾	0.44	0.57	0.66	14.8	
9.2	8.4	11.5	720	88.1	88.2	87.2	0.64	0.76	0.83	17.7	54	875	87.0	88.4	88.6	0.57	0.71	0.78	15.3	
11	10.1	13.6	720	88.2	88.4	87.6	0.66	0.78	0.83	21.1	54	875	87.3	89.0	89.5	0.60	0.74	0.81	17.5	
15	13.8	18.8	725	90.3	90.5	89.8	0.59	0.71	0.77	30.3	54	880	89.7	91.0	91.1	0.52	0.65	0.73	26.0	
18.5	17	23	730	91.5	91.9	91.5	0.65	0.79	0.84	33.6	54	885	90.9	92.1	92.4	0.59	0.73	0.80	28.9	
22	20.2	27.4	730	91.6	91.9	91.6	0.68	0.79	0.83	40.4	56	885	91.4	92.3	92.5	0.62	0.75	0.80	34.3	
30	27.6	37.5	730	92.1	92.4	92.0	0.70	0.81	0.85	53.6	60	880	91.4	92.3	92.5	0.63	0.76	0.82	45.6	
37	34	46.2	735	93.0	93.5	93.3	0.64	0.76	0.81	68.4	60	890	92.2	93.4	93.6	0.57	0.71	0.78	58.5	
45	41.4	56.2	735	92.4	94.1	94.1	0.64	0.75	0.80	83.5	60	885	90.3	93.2	94.1	0.60	0.72	0.77	71.7	
55	50.6	68.7	740	93.8	94.2	94.0	0.67	0.78	0.82	99.7	60	890	92.8	93.9	94.1	0.60	0.73	0.79	85.4	
75	69	93.7	740	94.1	94.6	94.4	0.69	0.79	0.82	135	63	890	93.4	94.3	94.5	0.62	0.75	0.80	114	
90	82.8	112	740	94.4	94.8	94.5	0.69	0.79	0.82	162	63	890	93.8	94.5	94.6	0.62	0.75	0.80	137	
110	101	137	740	94.5	94.8	94.6	0.68	0.78	0.81	200	66	890	93.6	94.6	94.9	0.61	0.74	0.79	169	
132	121	164	740	94.5	95.1	95.2	0.65	0.77	0.81	239	66	890	94.1	95.0	95.3	0.58	0.72	0.79	202	
160	147	199	745	95.3	95.8	95.7	0.65	0.77	0.81	288	75	895	94.2	95.3	95.7	0.57	0.71	0.78	247	
185	170	230	745	95.4	95.8	95.7	0.63	0.76	0.80	337	75	895	95.1	95.7	95.7	0.62	0.75	0.80	279	
200	184	250	745	95.4	95.8	95.7	0.64	0.77	0.82	356	75	895	94.8	95.7	95.8	0.57	0.71	0.79	305	
220	202	274	745	95.6	96.0	95.8	0.65	0.77	0.81	396	75	895	94.8	95.7	95.8	0.57	0.71	0.78	339	
250	250	340	745	95.5	95.8	95.8	0.67	0.77	0.81	489	75	895	95.0	95.8	95.8	0.59	0.72	0.78	420	
280	258	351	745	95.3	95.9	95.9	0.63	0.75	0.80	510	75	895	94.8	95.7	95.8	0.56	0.70	0.77	438	

Notes:

(2) Motors do not comply with IE2 (60Hz) efficiency values from IEC 60034-30-1 at 50°C. According to the standard they comply with IE1.

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - Premium Efficiency - IE3 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*		Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque T _b /T _n	Inertia J (kgm ²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V							
													Rated speed (rpm)	% of full load						Full load current I _n (A)
														Efficiency			Power factor			
														50	75	100	50	75	100	
II pole																				
0.12	0.12	0.16	63	0.41	5.4	3.1	3.3	0.0001	30	66	6.2	52	2820	58.0	60.8	60.8	0.54	0.67	0.76	0.38
0.18	0.18	0.25	63	0.61	5.2	3.0	3.2	0.0002	22	48	6.7	52	2815	61.0	65.9	65.9	0.53	0.65	0.74	0.53
0.25	0.25	0.33	63	0.85	5.5	3.2	3.2	0.0002	17	37	7.2	52	2805	63.0	68.0	69.7	0.54	0.68	0.77	0.67
0.37	0.37	0.5	71	1.25	6.0	2.5	2.5	0.0004	12	26	7.5	56	2820	73.0	73.8	73.8	0.66	0.79	0.85	0.85
0.55	0.55	0.75	71	1.90	5.9	3.0	3.0	0.0005	18	40	8.5	56	2770	75.0	76.0	77.8	0.68	0.81	0.86	1.19
0.75	0.75	1	80	2.54	7.5	3.5	3.5	0.0008	25	55	13.5	59	2825	80.0	82.0	81.0	0.63	0.76	0.82	1.63
1.1	1.1	1.5	80	3.71	7.4	3.6	3.6	0.0009	23	51	15.0	59	2830	81.0	83.5	83.0	0.63	0.76	0.82	2.33
1.5	1.5	2	90S	4.99	7.6	3.3	3.3	0.0020	15	33	18.5	62	2875	83.0	85.0	84.5	0.64	0.76	0.83	3.09
2.2	2.2	3	90L	7.32	7.5	3.4	3.5	0.0026	12	26	23.5	62	2870	86.0	86.5	86.3	0.65	0.77	0.83	4.43
3	3	4	100L	9.80	8.5	3.4	3.4	0.0064	15	33	35.0	67	2910	85.5	87.3	87.3	0.69	0.81	0.86	5.77
4	4	5.5	112M	13.2	7.7	2.9	3.5	0.0081	22	48	41.0	64	2900	88.0	88.4	88.4	0.69	0.80	0.86	7.59
5.5	5.5	7.5	132S	17.9	7.9	2.4	3.5	0.0180	16	35	62.0	67	2930	86.9	88.7	89.4	0.66	0.78	0.84	10.6
7.5	7.5	10	132S	24.5	8.8	2.7	3.6	0.0234	10	22	65.0	67	2930	88.5	89.8	90.3	0.68	0.80	0.85	14.1
9.2	9.2	12.5	132M	30.0	8.5	2.9	3.3	0.0303	16	35	78.0	67	2930	90.4	91.1	90.7	0.75	0.84	0.88	16.6
11	11	15	160M	35.7	8.0	2.6	3.4	0.0482	12	26	105	67	2945	90.3	91.4	91.4	0.71	0.82	0.87	20.0
15	13.8	18.8	160M	44.7	8.9	3.0	3.8	0.0551	8	18	112	67	2950	90.4	91.8	92.1	0.64	0.77	0.84	25.7
18.5	17	23	160L	55.0	9.2	3.3	4.0	0.0663	6	13	125	67	2950	91.0	92.3	92.6	0.66	0.79	0.84	31.5
22	20.2	27.4	180M	65.3	8.9	2.9	3.9	0.0968	6	13	165	67	2955	91.9	93.0	93.0	0.66	0.79	0.85	36.9
30	30	40	200L	96.8	7.7	3.0	3.0	0.1703	16	35	225	72	2960	92.2	93.2	93.5	0.69	0.80	0.85	54.5
37	34	46.2	200L	109	8.3	3.3	3.2	0.1881	13	29	250	69	2965	92.0	93.4	93.8	0.65	0.78	0.83	63.1
45	41.4	56.3	225S/M	133	8.4	2.6	3.3	0.2861	13	29	380	74	2965	94.0	94.5	94.3	0.75	0.85	0.89	71.2
55	50.6	68.8	250S/M	163	8.5	2.9	3.5	0.3736	19	42	430	74	2965	93.3	94.3	94.4	0.74	0.84	0.88	87.9
75	75	100	280S/M	241	7.5	2.0	3.1	0.9386	36	79	630	77	2975	93.7	94.8	94.9	0.78	0.85	0.88	130
90	82.8	112	280S/M	265	8.3	2.3	3.3	1.11	27	59	710	77	2975	94.1	95.1	95.2	0.78	0.87	0.90	139
110	110	150	315S/M	353	7.5	1.9	3.0	1.66	38	84	900	77	2980	94.3	95.3	95.4	0.78	0.85	0.88	189
132	132	175	315S/M	423	7.6	2.1	3.1	1.96	34	75	950	77	2980	94.5	95.4	95.6	0.78	0.86	0.89	224
150	138	187	315S/M	442	8.1	2.5	3.3	2.18	20	44	990	77	2980	94.8	95.5	95.6	0.76	0.86	0.89	234
160	147	199	315S/M	471	8.0	2.1	3.1	2.24	28	62	1035	77	2980	94.9	95.7	95.8	0.76	0.86	0.89	249
185	170	230	315S/M	545	8.3	2.5	3.3	2.45	22	48	1090	77	2980	95.1	95.8	95.8	0.76	0.86	0.89	288
220	202	274	315L	647	9.3	2.9	3.5	3.12	23	51	1220	78	2980	95.6	96.1	96.1	0.78	0.88	0.90	337
280	258	351	315L	825	8.2	2.7	2.9	4.16	22	48	1390	78	2985	95.2	95.8	96.0	0.81	0.89	0.91	425
315	290	394	355M/L ⁽⁵⁾	929	8.4	2.2	2.7	6.00	23	51	1800	80	2980	95.4	95.9	96.0	0.84	0.90	0.91	478
330	304	413	355M/L	974	8.4	2.5	2.7	6.00	28	62	1840	80	2980	95.1	95.7	96.0	0.85	0.90	0.91	501
355	327	444	355M/L ⁽⁵⁾	1046	8.6	2.3	3.0	6.00	14	31	1840	80	2985	95.0	95.6	95.8	0.84	0.91	0.91	540
370	340	462	355A/B ⁽⁵⁾	1088	8.6	2.7	3.0	6.76	40	88	2046	83	2985	95.4	96.2	96.4	0.82	0.89	0.90	566

Notes:

(5) Fitted with air deflector in the drive end side.

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula C(Nm) = Power (kW)*9555 / n (rpm).

W22 Marine Motors - Premium Efficiency - IE3 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	
kW	kW	HP																		
II pole																				
0.12	0.12	0.16	2795	59.0	60.8	60.8	0.58	0.71	0.79	0.38	56	3430	55.0	62.0	62.0	0.54	0.65	0.73	0.33	
0.18	0.18	0.25	2790	62.6	65.9	65.9	0.57	0.70	0.79	0.53	56	3430	57.5	64.0	65.6	0.54	0.66	0.74	0.47	
0.25	0.25	0.33	2780	64.6	68.7	69.7	0.59	0.73	0.81	0.67	56	3415	64.0	68.0	69.5	0.53	0.65	0.74	0.61	
0.37	0.37	0.50	2795	73.6	74.3	73.8	0.71	0.82	0.87	0.88	56	3440	70.0	73.4	73.4	0.64	0.76	0.82	0.77	
0.55	0.55	0.75	2740	75.6	75.7	77.8	0.73	0.84	0.88	1.22	60	3415	74.0	75.5	76.8	0.66	0.78	0.84	1.07	
0.75	0.75	1	2805	80.0	80.5	80.7	0.68	0.80	0.85	1.66	60	3450	75.5	80.0	81.5	0.62	0.74	0.81	1.43	
1.1	1.1	1.5	2810	82.0	83.7	83.1	0.69	0.80	0.85	2.37	62	3450	78.5	81.5	84.0	0.62	0.74	0.81	2.03	
1.5	1.5	2	2860	83.7	85.0	84.4	0.69	0.80	0.85	3.18	62	3485	80.0	82.5	85.5	0.64	0.75	0.82	2.69	
2.2	2.2	3	2855	86.5	86.4	85.9	0.70	0.81	0.86	4.52	68	3480	84.0	85.5	86.5	0.64	0.76	0.83	3.85	
3	3	4	2900	86.0	87.4	87.1	0.75	0.84	0.88	5.95	68	3510	82.5	86.5	88.5	0.68	0.79	0.85	5.01	
4	4	5.5	2890	88.0	88.2	88.2	0.73	0.83	0.88	7.83	71	3505	85.5	87.5	88.5	0.67	0.79	0.85	6.67	
5.5	5.5	7.5	2925	87.6	88.9	89.2	0.71	0.82	0.87	10.8	69	3540	84.7	87.6	89.5	0.65	0.77	0.83	9.29	
7.5	7.5	10	2926	89.2	90.1	90.1	0.73	0.83	0.88	14.4	72	3540	86.9	89.3	90.2	0.67	0.78	0.84	12.4	
9.2	9.2	12.5	2920	90.7	91.0	90.8	0.79	0.87	0.90	17.1	72	3530	88.5	90.2	91.0	0.73	0.83	0.87	14.6	
11	11	15	2940	90.7	91.2	91.2	0.75	0.84	0.88	20.8	72	3550	88.6	90.6	91.0	0.70	0.80	0.85	17.8	
15	13.8	18.8	2945	90.4	91.7	91.9	0.69	0.81	0.86	26.5	72	3555	89.2	91.2	91.7	0.63	0.76	0.83	22.7	
18.5	17	23	2950	91.5	92.4	92.5	0.70	0.82	0.87	32.1	72	3560	90.2	91.9	92.4	0.64	0.77	0.83	27.8	
22	20.2	27.4	2950	92.0	92.8	92.8	0.71	0.82	0.86	38.5	72	3560	91.0	92.3	92.4	0.65	0.77	0.83	33.1	
30	30	40	2960	92.6	93.2	93.3	0.75	0.83	0.87	56.2	76	3570	90.8	92.6	93.0	0.69	0.79	0.84	48.2	
37	34	46.2	2965	92.6	93.6	93.7	0.72	0.83	0.87	63.4	76	3570	91.2	92.7	93.1	0.65	0.78	0.83	55.2	
45	41.4	56.3	2965	93.4	94.1	94.1	0.78	0.87	0.90	74.2	79	3565	92.7	93.7	93.7	0.73	0.84	0.88	63.0	
55	50.6	68.8	2965	93.4	94.3	94.4	0.77	0.87	0.90	90.4	79	3565	91.9	93.4	93.8	0.72	0.83	0.87	77.8	
75	75	100	2975	93.9	94.7	94.7	0.81	0.87	0.89	135	79	3580	91.8	93.6	94.1	0.77	0.85	0.88	114	
90	82.8	112	2975	94.2	95.0	95.0	0.80	0.88	0.90	147	81	3580	92.6	94.3	95.0	0.76	0.86	0.89	123	
110	110	150	2975	94.6	95.4	95.4	0.81	0.87	0.89	197	81	3580	92.8	94.4	95.0	0.77	0.85	0.88	165	
132	132	175	2975	94.7	95.5	95.6	0.81	0.87	0.90	233	81	3580	92.9	94.5	95.4	0.77	0.85	0.88	197	
150	138	187	2975	94.8	95.5	95.6	0.80	0.88	0.90	243	81	3580	93.2	94.7	95.4	0.75	0.85	0.89	204	
160	147	199	2980	95.1	95.8	95.8	0.79	0.88	0.90	259	81	3580	93.4	94.9	95.5	0.75	0.85	0.89	217	
185	170	230	2975	95.3	95.8	95.8	0.79	0.88	0.90	299	81	3575	94.0	95.3	95.8	0.78	0.87	0.90	248	
220	202	274	2980	95.7	96.1	96.0	0.80	0.89	0.91	352	84	3580	94.7	95.6	95.8	0.76	0.86	0.90	294	
280	258	351	2975	95.8	96.1	96.0	0.85	0.91	0.91	448	84	3580	95.6	96.2	96.2	0.80	0.88	0.91	369	
315	290	394	2980	95.0	95.7	96.0	0.87	0.92	0.92	498	84	3580	95.8	96.3	96.2	0.83	0.90	0.91	415	
330	304	413	2980	95.2	95.8	96.0	0.88	0.92	0.91	528	84	3585	94.5	95.3	95.7	0.85	0.92	0.93	429	
355	327	444	2980	94.9	95.6	95.8	0.86	0.92	0.91	569	84	3585	93.7	94.9	95.8	0.82	0.90	0.92	466	
370	340	462	2980	95.4	96.1	96.2	0.84	0.90	0.91	590	84	3585	94.0	95.1	95.8	0.86	0.92	0.92	485	

Note:

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - Premium Efficiency - IE3 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*		Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque TI/Tn	Breakdown torque Tb/Tn	Inertia J (kgm ²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V							Full load current In (A)
									Hot	Cold			Rated speed (rpm)	% of full load			Power factor			
														Efficiency		Power factor				
kW	kW	HP											50	75	100	50	75	100		
IV pole																				
0.12	0.12	0.16	63	0.84	4.4	2.1	2.3	0.0004	30	66	5.2	44	1370	57.0	63.0	64.8	0.52	0.62	0.73	0.37
0.18	0.18	0.25	63	1.26	4.7	2.1	2.4	0.0006	30	66	7.2	44	1370	65.0	67.0	69.9	0.53	0.63	0.72	0.52
0.25	0.25	0.33	71	1.72	4.8	2.3	2.3	0.0009	30	66	8.0	43	1390	69.0	72.0	73.5	0.52	0.65	0.72	0.68
0.37	0.37	0.5	71	2.55	4.8	2.8	2.9	0.0008	30	66	9.5	43	1385	73.0	75.0	77.3	0.50	0.62	0.70	0.99
0.55	0.55	0.75	80	3.70	6.6	2.9	3.2	0.0027	20	44	12.5	44	1420	77.0	79.0	80.8	0.61	0.74	0.80	1.23
0.75	0.75	1	80	5.05	6.7	3.0	3.3	0.0032	18	40	14.5	44	1420	80.0	82.0	82.5	0.59	0.72	0.81	1.62
1.1	1.1	1.5	90S	7.22	7.6	2.5	3.3	0.0055	15	33	19.5	49	1455	83.0	84.5	84.5	0.59	0.72	0.80	2.35
1.5	1.5	2	90L	9.88	7.4	2.6	3.4	0.0066	13	29	23.0	49	1450	84.0	86.0	85.5	0.58	0.72	0.80	3.17
2.2	2.2	3	100L	14.7	7.4	3.2	3.5	0.0090	18	40	31.5	53	1435	86.5	87.0	87.0	0.60	0.73	0.80	4.56
3	3	4	L100L	19.9	7.8	3.5	3.7	0.0120	15	33	37.5	53	1440	87.0	88.0	88.0	0.60	0.73	0.80	6.15
4	3.7	5	112M	24.1	7.5	2.5	3.3	0.0180	15	33	44.0	56	1455	88.1	89.3	89.0	0.58	0.73	0.80	7.46
5.5	5.5	7.5	132S	36.0	8.3	2.1	3.3	0.0491	12	26	66.0	56	1460	89.0	89.6	89.7	0.69	0.80	0.85	10.4
7.5	6.9	9.4	132M	45.0	8.9	2.6	3.8	0.0563	7	15	74.0	56	1465	90.0	90.9	90.8	0.65	0.79	0.85	12.9
9.2	8.5	11.5	132M/L	55.1	9.0	3.0	3.8	0.0698	10	22	82.0	56	1465	89.7	91.1	91.1	0.60	0.75	0.81	16.5
11	11	15	160M	71.5	7.5	2.8	3.2	0.1191	11	24	113	61	1470	91.1	91.8	91.6	0.65	0.77	0.83	20.9
15	13.8	18.8	160L	90.0	7.7	3.0	3.3	0.1534	8	18	135	61	1465	91.8	92.6	92.4	0.63	0.77	0.83	25.9
18.5	17	23	180M	110	8.0	3.2	3.4	0.1740	13	29	168	61	1470	91.7	92.8	92.9	0.61	0.74	0.81	32.6
22	20.2	27.4	180L	131	7.8	3.7	3.7	0.2097	11	24	185	61	1470	91.8	93.0	93.2	0.62	0.76	0.82	38.2
30	27.6	37.5	200L	178	8.1	3.0	3.3	0.3202	12	26	228	63	1480	92.6	93.5	93.7	0.60	0.73	0.80	53.1
37	37	50	225S/M	239	7.7	2.8	3.3	0.5177	13	29	365	63	1480	93.4	94.0	94.1	0.70	0.80	0.85	66.8
45	41.4	56.3	225S/M	268	8.1	3.0	3.3	0.6733	14	31	400	63	1475	93.2	94.2	94.4	0.68	0.80	0.84	75.3
55	55	75	250S/M	355	7.5	2.8	3.0	1.05	14	31	440	64	1480	94.3	94.7	94.7	0.69	0.80	0.85	98.6
75	75	100	280S/M	483	7.5	2.2	2.9	2.09	30	66	630	69	1485	94.5	95.1	95.2	0.72	0.82	0.85	134
90	82.8	112	280S/M	532	7.6	2.3	2.9	2.16	30	66	700	69	1485	94.6	95.4	95.4	0.72	0.82	0.86	145
110	110	150	315S/M	705	7.4	2.2	2.6	2.89	33	73	950	71	1490	94.7	95.5	95.6	0.74	0.82	0.86	193
132	132	175	315S/M	846	7.5	2.3	2.7	3.79	30	66	1010	71	1490	95.1	95.7	95.8	0.74	0.82	0.86	231
150	150	200	315S/M	962	7.8	2.7	2.7	3.77	27	59	1030	71	1490	95.4	95.8	95.9	0.71	0.81	0.85	266
160	160	220	315S/M	1026	7.7	2.6	2.7	3.99	28	62	1080	71	1490	95.2	95.9	96.0	0.74	0.82	0.86	280
185	170	230	315S/M	1090	8.4	2.9	3.1	4.42	25	55	1150	71	1490	95.3	96.0	96.1	0.67	0.79	0.84	304
220	202	274	315L	1295	8.5	3.0	3.0	5.30	12	26	1340	73	1490	95.5	96.2	96.2	0.69	0.80	0.84	361
250	230	315	315L	1474	8.5	3.1	2.9	5.74	19	42	1430	73	1490	95.7	96.3	96.2	0.70	0.81	0.85	405
260	239	324	315L	1532	8.5	3.1	2.9	6.40	19	42	1430	73	1490	95.7	96.3	96.2	0.70	0.81	0.85	422
280	258	351	355M/L	1654	7.9	2.6	2.8	9.66	20	44	1600	74	1490	95.6	96.1	96.2	0.71	0.82	0.86	449
315	290	394	355M/L	1859	8.5	2.7	2.8	9.46	17	37	1750	74	1490	95.9	96.3	96.3	0.68	0.80	0.84	517
355	327	444	355M/L ⁽⁵⁾	2097	7.8	2.6	2.7	11.58	15	33	1878	74	1490	96.4	96.8	96.6	0.71	0.82	0.86	567
400	368	500	355A/B ⁽⁵⁾	2359	8.2	2.8	3.1	13.22	20	44	2089	76	1490	95.4	96.1	96.2	0.65	0.78	0.83	665

Notes:

(5) Fitted with air deflector in the drive end side.

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) * 9555 / n (rpm)$.

W22 Marine Motors - Premium Efficiency - IE3 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	
kW	kW	HP																		
0.12	0.12	0.16	1355	58.6	64.0	64.8	0.56	0.69	0.76	0.37	48	1710	57.5	64.0	66.0	0.50	0.62	0.71	0.32	
0.18	0.18	0.25	1355	65.0	67.0	69.9	0.57	0.67	0.75	0.52	48	1705	62.0	66.0	69.5	0.50	0.60	0.69	0.47	
0.25	0.25	0.33	1375	67.0	69.1	73.5	0.56	0.69	0.75	0.69	48	1720	70.0	72.0	73.4	0.47	0.60	0.69	0.62	
0.37	0.37	0.50	1370	73.0	75.0	77.3	0.53	0.64	0.72	1.01	47	1710	70.0	75.0	78.2	0.47	0.58	0.67	0.89	
0.55	0.55	0.75	1410	78.0	79.1	80.8	0.65	0.77	0.83	1.25	47	1720	77.0	80.0	81.1	0.60	0.73	0.78	1.09	
0.75	0.75	1	1410	80.8	82.0	82.5	0.64	0.75	0.83	1.66	48	1720	78.5	80.0	84.0	0.58	0.71	0.79	1.43	
1.1	1.1	1.5	1450	84.0	84.7	84.3	0.64	0.76	0.83	2.39	51	1760	80.0	84.0	86.5	0.57	0.70	0.78	2.05	
1.5	1.5	2	1445	85.0	86.2	85.6	0.63	0.76	0.83	3.21	51	1755	82.5	85.5	86.5	0.56	0.69	0.78	2.79	
2.2	2.2	3	1430	87.2	87.1	86.7	0.65	0.77	0.83	4.64	51	1745	84.0	86.5	89.5	0.58	0.71	0.78	3.96	
3	3	4	1430	87.7	88.0	87.7	0.65	0.77	0.83	6.26	54	1740	84.0	86.5	89.5	0.59	0.71	0.79	5.33	
4	3.7	5	1450	88.6	89.4	88.9	0.63	0.77	0.82	7.67	54	1760	87.0	89.2	89.6	0.56	0.70	0.78	6.61	
5.5	5.5	7.5	1460	89.0	89.6	89.6	0.73	0.83	0.87	10.7	56	1765	90.2	91.0	91.7	0.66	0.78	0.84	8.96	
7.5	6.9	9.4	1465	89.3	90.4	90.4	0.67	0.81	0.86	13.4	58	1770	89.3	91.2	91.7	0.61	0.75	0.82	11.5	
9.2	8.5	11.5	1465	90.4	91.3	91.1	0.65	0.79	0.84	16.8	58	1770	88.7	90.9	91,6 ⁽⁴⁾	0.59	0.73	0.80	14.5	
11	11	15	1470	91.7	91.4	91.4	0.69	0.80	0.85	21.5	58	1775	91.0	92.2	92.4	0.62	0.75	0.81	18.4	
15	13.8	18.8	1465	92.0	92.6	92.3	0.66	0.79	0.84	27.0	64	1775	91.6	92.8	93.0	0.60	0.73	0.80	23.2	
18.5	17	23	1470	92.1	92.9	92.7	0.66	0.78	0.83	33.6	64	1775	91.4	93.0	93,5 ⁽⁴⁾	0.59	0.72	0.79	28.9	
22	20.2	27.4	1470	92.0	92.9	93.0	0.67	0.79	0.84	39.3	64	1775	91.6	93.1	93,5 ⁽⁴⁾	0.61	0.74	0.81	33.5	
30	27.6	37.5	1475	93.0	93.7	93.7	0.65	0.77	0.83	53.9	66	1780	92.1	93.6	94,0 ⁽⁴⁾	0.59	0.72	0.79	46.6	
37	37	50	1480	93.7	93.9	93.9	0.74	0.83	0.86	69.6	66	1780	92.6	94.0	94.5	0.68	0.79	0.84	58.5	
45	41.4	56.3	1475	93.3	94.1	94.2	0.71	0.82	0.86	77.6	67	1780	92.9	94.1	94,5 ⁽⁴⁾	0.66	0.78	0.83	66.2	
55	55	75	1480	94.5	94.6	94.7	0.73	0.82	0.86	103	67	1785	93.8	94.7	95.4	0.67	0.78	0.83	87.2	
75	75	100	1485	94.7	94.9	95.0	0.75	0.83	0.86	139	68	1790	93.8	94.7	95.4	0.70	0.80	0.84	117	
90	82.8	112	1480	95.0	95.4	95.3	0.74	0.84	0.87	151	73	1785	94.1	95.2	95.4	0.69	0.80	0.84	129	
110	110	150	1489	95.0	95.5	95.5	0.78	0.85	0.87	201	73	1795	93.7	95.0	95.8	0.73	0.82	0.85	170	
132	132	175	1490	95.3	95.6	95.6	0.77	0.84	0.87	241	75	1790	94.2	95.3	96.2	0.72	0.81	0.85	203	
150	150	200	1490	95.4	95.8	95.9	0.76	0.84	0.87	273	75	1790	94.6	95.7	96.2	0.71	0.81	0.85	230	
160	160	220	1490	95.7	95.8	95.8	0.77	0.84	0.87	292	75	1790	94.7	95.7	96.2	0.72	0.81	0.85	246	
185	170	230	1490	95.5	96.1	96.0	0.72	0.82	0.86	313	75	1790	94.4	95.7	96.2	0.66	0.78	0.83	267	
220	202	274	1490	95.8	96.4	96.4	0.71	0.82	0.86	370	78	1790	95.0	95.9	96.2	0.66	0.79	0.84	314	
250	230	315	1490	95.5	96.1	96.2	0.74	0.84	0.87	417	78	1790	95.3	96.1	96.2	0.68	0.80	0.84	357	
260	239	324	1490	95.5	96.1	96.2	0.74	0.84	0.87	434	78	1790	94.8	95.7	96.1	0.69	0.81	0.85	367	
280	258	351	1490	95.5	96.1	96.2	0.74	0.84	0.87	467	78	1790	95.2	96.0	96.2	0.69	0.80	0.84	400	
315	290	394	1490	95.6	96.0	96.0	0.72	0.82	0.86	533	78	1790	95.4	96.1	96.2	0.72	0.82	0.86	439	
355	327	444	1490	95.9	96.4	96.5	0.76	0.85	0.87	591	78	1790	95.3	95.9	96.2	0.71	0.82	0.86	495	
400	368	500	1490	95.8	96.2	96.2	0.69	0.81	0.85	683	78	1790	94.6	95.7	96.2	0.62	0.76	0.82	586	

Notes:

(4) Motors do not comply with IE3 (60Hz) efficiency values from IEC 60034-30-1 at 50°C. According to the standard they comply with IE2.

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - Premium Efficiency - IE3 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*		Frame	Full load torque (Nm)**	Locked rotor current I/In	Locked rotor torque Tl/Tn	Breakdown torque Tl/ Tn	Inertia J (kgm ²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB (A)	400 V							Full load current In (A)
									Rated speed (rpm)	% of full load			Power factor							
										Efficiency			Power factor							
kW	kW	HP						Hot	Cold				50	75	100	50	75	100		
VI pole																				
0.12	0.12	0.16	63	1.27	3.1	1.8	2.1	0.0007	30	66	7.7	43	905	50.0	55.0	57.7	0.44	0.53	0.62	0.48
0.18	0.18	0.25	71	1.91	3.2	2.0	2.1	0.0009	30	66	11.5	43	900	56.0	62.0	63.9	0.38	0.48	0.57	0.71
0.25	0.25	0.33	80	2.50	4.3	1.7	2.4	0.0000	25	55	12.0	43	955	63.6	68.5	68.8	0.47	0.60	0.71	0.74
0.37	0.37	0.5	80	3.82	4.5	1.9	2.1	0.0025	25	55	12.5	43	925	66.0	69.5	73.5	0.51	0.65	0.75	0.97
0.55	0.55	0.75	L80	5.56	5.1	2.9	3.1	0.0037	20	44	15.5	43	945	70.5	75.2	77.2	0.45	0.58	0.69	1.49
0.75	0.75	1	L90S	7.62	5.2	2.5	2.8	0.0060	31	68	22.0	45	940	76.5	79.0	79.0	0.49	0.62	0.71	1.93
1.1	1.1	1.5	L90L	11.0	5.5	2.5	2.8	0.0077	20	44	26.0	45	945	79.3	81.4	81.0	0.50	0.64	0.73	2.69
1.5	1.5	2	100L	15.0	5.5	2.3	2.8	0.0143	31	68	32.0	44	950	81.5	82.5	82.5	0.49	0.62	0.71	3.70
2.2	2.2	3	112M	22.0	6.0	2.5	2.6	0.0257	26	57	46.0	52	950	83.0	84.5	84.5	0.53	0.64	0.72	5.22
3	3	4	132S	29.7	5.8	1.8	2.6	0.0416	40	88	65.0	53	965	85.0	85.6	85.8	0.53	0.66	0.73	6.91
4	4	5.5	132M	39.6	6.1	1.9	2.7	0.0492	25	55	70.0	53	965	86.0	86.8	86.8	0.53	0.66	0.73	9.11
5.5	5.5	7.5	132M/L	54.5	7.0	2.5	2.8	0.0755	26	57	78.0	53	965	86.5	88.0	88.0	0.50	0.64	0.70	12.9
7.5	7.5	10	160M	73.5	6.3	2.2	2.7	0.1404	16	35	118	56	975	88.5	89.3	89.3	0.64	0.76	0.82	14.8
9.2	9.2	12.5	160L	90.2	6.5	2.3	2.9	0.1756	18	40	135	56	975	90.0	90.6	90.0	0.64	0.75	0.81	18.2
11	11	15	160L	108	7.1	2.8	3.2	0.1931	12	26	140	56	975	89.0	90.1	90.5	0.60	0.73	0.80	21.9
15	15	20	180L	147	7.7	2.6	3.2	0.2970	8	18	185	56	975	91.5	91.5	91.4	0.68	0.79	0.84	28.2
18.5	18.5	25	200L	180	6.3	2.4	2.8	0.3510	16	35	215	60	980	91.0	91.7	91.9	0.63	0.75	0.81	35.9
22	22	30	200L	215	6.4	2.4	2.8	0.4212	15	33	225	60	980	91.4	92.0	92.4	0.64	0.76	0.81	42.4
30	27.6	37.5	225S/M	267	8.1	2.6	3.0	0.8194	15	33	380	63	985	92.7	93.4	93.3	0.66	0.78	0.83	51.4
37	37	50	250S/M	359	7.2	2.4	2.7	1.24	20	44	430	64	985	93.3	93.5	93.5	0.72	0.81	0.85	67.2
45	45	60	280S/M	437	6.4	2.1	2.7	2.35	28	62	640	65	985	93.9	93.9	93.9	0.67	0.77	0.82	84.4
55	55	75	280S/M	534	6.8	2.3	2.8	2.69	24	53	665	65	985	94.0	94.2	94.3	0.66	0.77	0.82	103
75	75	100	315S/M	724	6.3	2.0	2.5	4.35	37	81	920	67	990	94.6	94.9	94.9	0.67	0.77	0.82	139
90	90	125	315S/M	869	6.4	2.2	2.5	5.42	35	77	990	67	990	95.1	95.5	95.1	0.68	0.78	0.83	165
110	110	150	315S/M	1062	6.2	2.1	2.4	6.15	31	68	1040	67	990	95.4	95.6	95.3	0.70	0.80	0.83	201
132	121	164	315S/M	1167	7.7	2.8	2.9	7.23	25	55	1100	67	990	95.3	95.8	95.7	0.63	0.76	0.81	226
150	138	187	315L	1331	7.0	2.5	2.7	7.95	25	55	1200	68	990	95.2	95.8	95.8	0.64	0.76	0.82	253
160	147	199	315L	1418	8.1	2.9	3.0	6.87	22	48	1230	68	990	95.2	95.8	95.8	0.63	0.76	0.81	273
200	184	250	355M/L	1775	6.5	2.3	2.5	10.41	39	86	1620	73	990	95.3	95.9	96.0	0.63	0.75	0.79	350
220	202	274	355M/L	1939	7.0	2.1	2.3	12.01	36	79	1710	73	995	95.3	96.0	96.1	0.60	0.73	0.78	389
250	230	315	355M/L	2219	6.9	2.3	2.5	13.86	38	84	1830	73	990	95.4	96.0	95.9	0.61	0.73	0.78	443
280	258	351	355M/L	2477	5.9	2.0	2.3	15.02	38	84	1970	73	995	94.4	95.4	95.8	0.61	0.73	0.79	491
300	276	375	355M/L	2663	6.2	2.0	2.1	14.99	25	55	2493	73	990	95.5	96.1	96.1	0.60	0.72	0.79	524
315	290	394	355M/L ⁽⁵⁾	2798	6.5	2.2	2.2	15.02	25	55	2493	73	990	95.0	95.7	95.8	0.63	0.75	0.79	552
370	340	462	355A/B ⁽⁵⁾	3281	6.4	2.3	2.5	18.00	25	55	2300	73	990	95.1	95.8	95.9	0.60	0.72	0.78	656
400	368	500	355A/B ⁽⁵⁾⁽⁶⁾	3551	6.5	2.1	2.5	18.92	29	64	2346	73	990	95.1	95.8	95.9	0.60	0.72	0.78	710

Notes:

(5) Fitted with air deflector in the drive end side.

(6) Motor with class F (105K) temperature rise.

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) \cdot 9555 / n (rpm)$.

W22 Marine Motors - Premium Efficiency - IE3 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*			380 V								460 V (60Hz)								
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	
kW	kW	HP	VI pole																	
0.12	0.12	0.16	890	48.7	54.7	57.7	0.47	0.56	0.66	0.48	47	1120	52.0	59.0	64.0	0.40	0.50	0.57	0.41	
0.18	0.18	0.25	885	57.7	62.8	63.9	0.43	0.55	0.64	0.67	47	1110	57.5	59.5	67.5	0.35	0.44	0.53	0.63	
0.25	0.25	0.33	950	65.9	68.0	68.6	0.51	0.64	0.74	0.75	47	1165	64.1	70.5	71.4	0.43	0.55	0.65	0.68	
0.37	0.37	0.5	915	67.6	69.9	73.5	0.55	0.69	0.79	0.97	47	1140	66.0	70.0	75.3	0.47	0.60	0.70	0.88	
0.55	0.55	0.75	940	73.4	76.7	77.2	0.49	0.63	0.73	1.48	47	1155	71.9	77.0	80 ⁽⁴⁾	0.42	0.54	0.64	1.35	
0.75	0.75	1	930	77.5	79.2	78.9	0.53	0.66	0.74	1.95	49	1145	77.0	80.0	82.5	0.47	0.60	0.69	1.65	
1.1	1.1	1.5	940	81.0	82.0	81.0	0.55	0.69	0.77	2.68	48	1150	80.0	82.9	83,5 ⁽³⁾	0.47	0.61	0.70	2.36	
1.5	1.5	2	945	82.3	82.6	82.5	0.53	0.66	0.74	3.73	52	1155	82.5	85.5	86,5 ⁽⁴⁾	0.48	0.61	0.69	3.15	
2.2	2.2	3	945	83.6	84.4	84.3	0.57	0.68	0.75	5.29	52	1155	82.5	85.5	87,5 ⁽⁴⁾	0.50	0.62	0.71	4.44	
3	3	4	960	85.0	85.8	85.8	0.57	0.69	0.76	6.99	55	1170	85.5	87.7	89.5	0.50	0.63	0.71	5.93	
4	4	5.5	960	86.3	86.8	86.8	0.57	0.70	0.76	9.21	55	1170	86.2	88.2	89.5	0.50	0.63	0.71	7.90	
5.5	5.5	7.5	960	87.4	88.3	88.0	0.55	0.68	0.75	12.7	55	1170	85.5	88.5	91.0	0.48	0.61	0.70	10.8	
7.5	7.5	10	970	88.9	89.0	89.1	0.68	0.79	0.84	15.2	55	1180	87.9	89.5	91.0	0.61	0.73	0.80	12.9	
9.2	9.2	12.5	970	89.5	90.0	90.0	0.68	0.78	0.83	18.7	59	1180	88.5	90.2	91.7	0.60	0.73	0.80	15.7	
11	11	15	975	89.7	90.3	90.3	0.65	0.77	0.83	22.3	59	1180	88.6	90.4	91.7	0.58	0.71	0.78	19.3	
15	15	20	975	90.7	91.0	91.2	0.72	0.81	0.86	29.1	59	1180	91.4	92.1	91.7	0.66	0.77	0.83	24.9	
18.5	18.5	25	980	91.0	91.7	91.7	0.68	0.78	0.83	36.9	59	1180	90.9	92.1	93.0	0.61	0.73	0.80	31.2	
22	22	30	980	92.0	92.2	92.2	0.69	0.79	0.84	43.2	62	1185	91.4	92.5	93.0	0.62	0.74	0.80	37.1	
30	27.6	37.5	985	93.0	93.4	93.1	0.70	0.81	0.85	52.9	62	1190	92.2	93.6	94,0 ⁽⁴⁾	0.64	0.77	0.82	44.9	
37	37	50	980	93.3	93.3	93.3	0.75	0.83	0.87	69.3	66	1185	93.0	94.1	94.1	0.69	0.80	0.84	58.8	
45	45	60	985	93.7	93.8	93.8	0.70	0.80	0.83	87.8	68	1190	93.0	94.1	94.5	0.64	0.75	0.81	73.8	
55	55	75	985	94.0	94.2	94.2	0.70	0.79	0.83	107	68	1190	93.0	94.5	94.5	0.64	0.75	0.81	90.2	
75	75	100	990	94.6	94.8	94.8	0.71	0.80	0.83	145	69	1190	93.6	95.0	95.0	0.65	0.76	0.81	122	
90	90	125	990	95.0	95.1	95.1	0.72	0.80	0.84	171	69	1190	94.7	95.4	95.4	0.66	0.76	0.81	146	
110	110	150	990	94.8	95.0	95.1	0.74	0.82	0.84	209	70	1190	95.0	95.6	95.8	0.68	0.78	0.83	174	
132	121	164	990	95.3	95.7	95.7	0.66	0.78	0.83	232	70	1195	94.8	95.7	95.8	0.61	0.74	0.80	198	
150	138	187	990	95.2	95.7	95.7	0.66	0.78	0.84	260	70	1195	94.3	95.4	95.7	0.62	0.75	0.81	223	
160	147	199	990	95.3	95.8	95.8	0.67	0.79	0.83	281	77	1195	95.0	95.8	95.9	0.61	0.74	0.80	240	
200	184	250	990	95.6	96.0	95.9	0.67	0.78	0.82	355	77	1195	94.8	95.7	95.8	0.61	0.73	0.79	305	
220	202	274	995	95.2	95.9	96.0	0.62	0.75	0.80	400	77	1195	94.8	95.7	95.8	0.55	0.68	0.75	353	
250	230	315	990	95.5	95.9	95.8	0.65	0.76	0.80	455	77	1190	95.1	95.8	95.8	0.59	0.71	0.77	391	
280	258	351	990	95.5	96.1	96.1	0.65	0.76	0.80	509	77	1195	94.5	95.7	96.0	0.59	0.72	0.78	431	
300	276	375	990	95.5	96.1	96.0	0.61	0.75	0.81	539	77	1195	95.2	96.0	96.1	0.58	0.71	0.77	468	
315	290	394	990	95.7	96.1	96.1	0.65	0.77	0.81	565	77	1195	94.9	95.8	95.8	0.62	0.74	0.79	480	
370	340	462	990	95.3	95.9	95.8	0.62	0.74	0.80	674	77	1190	95.2	96.0	96.1	0.64	0.76	0.80	555	
400	368	500	990	95.4	96.0	95.9	0.64	0.76	0.80	728	77	1190	94.8	95.7	95.8	0.57	0.71	0.77	626	

Notes:

(3) Motors do not comply with IE3 (60Hz) efficiency values from IEC 60034-30-1 at 50°C. According to the standard they comply with IE1.

(4) Motors do not comply with IE3 (60Hz) efficiency values from IEC 60034-30-1 at 50°C. According to the standard they comply with IE2.

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

W22 Marine Motors - Premium Efficiency - IE3 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*		Frame	Full load torque (Nm)**	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								
									Hot	Cold			Rated speed (rpm)	% of full load			Full load current I _n (A)				
														Efficiency				Power factor			
kW	kW	HP											50	75	100	50	75	100			
VIII pole																					
0.12	0.12	0.16	71	1.76	2.4	1.8	2.0	0.0009	30	66	11.5	41	650	44.0	50.0	52.5	0.35	0.43	0.50	0.66	
0.18	0.18	0.25	80	2.53	3.3	2.0	2.2	0.0029	30	66	13.5	42	680	51.0	57.0	58.7	0.45	0.55	0.65	0.68	
0.25	0.25	0.33	80	3.49	3.5	2.0	2.2	0.0034	30	66	14.5	42	685	53.0	60.0	64.1	0.42	0.52	0.63	0.89	
0.37	0.37	0.5	90S	5.12	3.7	2.0	2.3	0.0055	30	66	19.0	43	690	61.0	66.0	69.3	0.41	0.53	0.62	1.24	
0.55	0.55	0.75	90L	7.62	3.8	1.9	2.2	0.0066	29	64	23.0	43	690	65.0	70.0	73.0	0.44	0.57	0.67	1.62	
0.75	0.75	1	100L	10.1	4.6	1.9	2.3	0.0127	30	66	30.5	50	710	72.5	75.5	75.5	0.41	0.53	0.62	2.31	
1.1	1.1	1.5	100L	14.8	4.6	2.1	2.4	0.0143	30	66	33.0	50	710	73.0	76.0	77.7	0.41	0.53	0.62	3.30	
1.5	1.5	2	112M	20.3	5.0	2.5	2.8	0.0238	28	62	43.0	46	705	79.0	79.5	79.9	0.45	0.59	0.68	3.98	
2.2	2.2	3	132S	29.6	6.2	2.3	2.5	0.0690	27	59	69.0	48	710	81.5	82.0	82.1	0.51	0.65	0.72	5.37	
3	3	4	132M	40.4	6.4	2.4	2.6	0.0838	21	46	75.0	48	710	82.5	83.5	83.5	0.51	0.64	0.72	7.20	
4	3.6	5	160M	48.5	5.3	2.2	2.5	0.1229	34	74	114	51	725	84.2	86.1	86.1	0.49	0.62	0.70	8.81	
5.5	5	6.88	160M	66.7	5.3	2.2	2.5	0.1492	28	61	123	51	725	85.2	87.3	87.4	0.49	0.63	0.71	11.7	
7.5	6.9	9.38	160L	90.3	5.6	2.3	2.7	0.2199	22	48	145	51	730	86.3	88.2	88.5	0.49	0.63	0.71	15.8	
9.2	8.4	11.5	180M	111	6.4	2.1	2.8	0.2575	15	33	173	51	725	88.2	89.5	89.6	0.60	0.73	0.80	17.0	
11	10.1	13.6	180L	133	6.9	2.5	2.9	0.2846	12	26	185	51	725	88.9	90.1	90.1	0.53	0.65	0.74	21.9	
15	13.8	18.8	200L	180	5.1	2.0	2.2	0.4571	34	74	220	56	730	88.4	89.7	89.8	0.53	0.66	0.73	30.3	
18.5	17	23	225S/M	221	7.0	1.8	2.7	0.8219	28	61	377	56	735	89.5	90.3	90.4	0.60	0.73	0.80	33.9	
22	20.2	27.4	225S/M	262	7.0	1.9	2.7	0.9574	22	48	402	56	735	89.9	90.8	90.9	0.60	0.73	0.80	40.1	
30	27.6	37.5	250S/M	358	8.0	2.0	3.0	1.42	18	39	490	56	735	90.7	91.5	91.6	0.63	0.76	0.82	53.0	
37	34	46.2	280S/M	439	6.4	1.9	2.5	2.82	32	70	673	59	740	91.2	92.0	92.1	0.59	0.72	0.78	68.3	
45	41.4	56.2	280S/M	534	6.4	1.9	2.3	3.48	30	66	670	59	740	91.9	92.5	92.5	0.59	0.72	0.78	82.8	
55	50.6	68.7	315S/M	653	6.4	1.8	2.3	5.11	40	88	936	62	740	91.9	92.7	92.8	0.62	0.74	0.79	99.6	
75	69	93.7	315S/M	890	6.4	1.9	2.3	6.56	40	88	900	62	740	92.6	93.2	93.3	0.62	0.74	0.79	135	
90	82.8	112	315S/M	1069	6.4	2.0	2.3	7.83	40	88	990	62	740	92.9	93.5	93.6	0.62	0.74	0.79	161	
110	101	137	315L	1304	6.4	2.0	2.3	9.46	35	77	1367	68	740	93.2	93.9	93.9	0.61	0.73	0.78	199	
132	121	164	355M/L	1551	6.7	1.4	2.5	14.08	48	105	1587	70	745	93.5	94.2	94.2	0.60	0.73	0.78	238	
160	147	199	355M/L	1885	6.9	1.4	2.5	17.39	56	123	1747	70	745	93.8	94.5	94.5	0.61	0.73	0.79	284	
185	170	230	355M/L	2180	6.8	1.4	2.5	18.52	56	123	1819	70	745	95.2	95.9	96.0	0.61	0.74	0.79	323	
200	184	250	355M/L	2359	6.7	1.4	2.5	18.92	56	123	1891	70	745	94.1	94.8	94.8	0.62	0.74	0.79	354	
220	202	274	355M/L	2590	7.7	1.9	2.7	19.83	30	66	2493	70	745	94.7	95.4	95.6	0.62	0.74	0.79	386	
280	258	351	355A/B ⁽⁵⁾	3309	8.0	2.1	3.0	25.03	44	96	2279	70	745	94.8	95.6	95.8	0.58	0.71	0.78	497	

Notes:

(5) Fitted with air deflector in the drive end side.

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

** Full load torque at 50Hz. To calculate the full load torque at 60Hz use the formula $C(Nm) = Power (kW) * 9555 / n (rpm)$.



W22 Marine Motors - Premium Efficiency - IE3 - Ambient Temperature 50°C - Temperature Rise 70K

Rated Output 40°C	Rated Output 50°C*			380 V							460 V (60Hz)									
				Rated speed (rpm)	% of full load						Full load current In (A)	Sound dB (A)	Rated speed (rpm)	% of full load						Full load current In (A)
					Efficiency			Power factor						Efficiency			Power factor			
					50	75	100	50	75	100				50	75	100	50	75	100	

VIII pole

0.12	0.12	0.16	635	46.6	51.7	52.9	0.38	0.46	0.54	0.64	45	825	46.0	52.5	59.5	0.30	0.37	0.46	0.51
0.18	0.18	0.25	670	52.8	58.0	58.7	0.48	0.59	0.69	0.68	46	830	50.5	60.0	64.0	0.38	0.48	0.59	0.60
0.25	0.25	0.33	695	54.0	60.0	64.1	0.44	0.57	0.67	0.88	46	860	67.5	68.0	68.5	0.37	0.48	0.57	0.80
0.37	0.37	0.5	700	61.0	66.0	69.3	0.44	0.56	0.66	1.23	47	870	66.5	71.5	72.0	0.37	0.47	0.56	1.15
0.55	0.55	0.75	695	65.0	70.0	73.0	0.49	0.62	0.70	1.64	47	860	70.0	73.0	74.0	0.41	0.53	0.62	1.50
0.75	0.75	1	705	73.9	76.1	75.1	0.44	0.57	0.66	2.30	47	860	70.0	74.0	75.5	0.38	0.50	0.59	2.11
1.1	1.1	1.5	700	74.9	76.8	77.7	0.45	0.58	0.66	3.26	54	860	74.0	75.5	78.5	0.38	0.50	0.59	2.98
1.5	1.5	2	700	79.0	79.5	79.7	0.49	0.63	0.71	4.03	54	855	77.0	80.0	84.0	0.44	0.57	0.64	3.50
2.2	2.2	3	705	81.5	81.9	81.9	0.57	0.68	0.76	5.37	52	860	78.5	82.5	85.5	0.49	0.62	0.70	4.61
3	3	4	705	83.4	83.5	83.5	0.56	0.68	0.75	7.28	52	860	80.0	82.5	86.5	0.49	0.62	0.70	6.22
4	3.6	5	720	85.2	86.7	86.4	0.53	0.66	0.73	8.87	52	880	83.6	86.0	86.6	0.46	0.59	0.69	7.73
5.5	5	6.88	720	85.9	87.5	87.4	0.53	0.66	0.74	11.8	54	880	84.3	86.7	87.4	0.46	0.59	0.69	10.5
7.5	6.9	9.38	725	87.1	88.6	88.7	0.53	0.67	0.74	15.9	54	880	85.4	87.7	88.5 ⁽⁴⁾	0.46	0.59	0.68	14.4
9.2	8.4	11.5	720	88.6	89.4	89.1	0.64	0.77	0.83	17.3	54	880	88.1	89.4	89.6	0.59	0.72	0.79	15.0
11	10.1	13.6	720	89.4	90.2	90.0	0.57	0.69	0.75	22.7	54	880	88.0	89.4	89.6	0.56	0.69	0.77	18.4
15	13.8	18.8	730	90.0	91.1	91.1	0.57	0.69	0.75	30.6	54	885	89.0	90.2	90.3	0.52	0.65	0.72	26.6
18.5	17	23	730	89.4	90.2	90.2	0.64	0.77	0.82	34.9	56	885	89.5	90.3	90.3	0.57	0.70	0.77	30.7
22	20.2	27.4	730	89.9	90.7	90.7	0.64	0.77	0.82	41.3	60	885	90.9	91.8	91.8	0.55	0.69	0.77	35.9
30	27.6	37.5	730	90.7	91.3	91.4	0.67	0.79	0.84	54.6	60	890	91.0	91.8	91.8	0.57	0.70	0.77	49.0
37	34	46.2	740	91.2	91.9	91.9	0.63	0.75	0.80	70.3	60	890	91.7	92.5	92.5	0.56	0.69	0.76	60.7
45	41.4	56.2	740	91.7	92.2	92.2	0.64	0.75	0.79	86.3	60	890	91.7	92.5	92.5	0.56	0.69	0.76	73.9
55	50.6	68.7	740	91.9	92.5	92.6	0.65	0.77	0.80	103	63	890	92.9	93.7	93.7	0.59	0.71	0.77	88.0
75	69	93.7	740	92.6	93.1	93.1	0.66	0.76	0.80	140	63	890	92.9	93.7	93.7	0.59	0.71	0.77	120
90	82.8	112	740	92.9	93.4	93.4	0.66	0.76	0.80	168	66	890	93.5	94.1	94.1	0.58	0.71	0.77	143
110	101	137	740	93.2	93.7	93.7	0.65	0.76	0.80	205	66	890	93.5	94.1	94.2	0.57	0.70	0.77	175
132	121	164	740	92.8	94.3	94.1	0.63	0.74	0.80	245	75	895	93.8	94.6	94.6	0.58	0.71	0.77	209
160	147	199	745	93.8	94.3	94.3	0.65	0.77	0.81	292	75	895	93.8	94.5	94.5	0.58	0.71	0.78	250
185	170	230	745	95.6	96.0	96.0	0.65	0.77	0.81	332	75	895	94.5	95.0	95.0	0.63	0.75	0.80	281
200	184	250	745	94.1	94.6	94.6	0.66	0.78	0.82	360	75	895	94.4	95.0	95.0	0.58	0.71	0.78	311
220	202	274	745	94.7	95.4	95.6	0.64	0.76	0.81	397	75	895	94.3	95.4	95.7	0.55	0.68	0.75	353
280	258	351	745	95.3	95.9	95.9	0.63	0.75	0.80	510	75	895	94.4	95.1	95.1	0.56	0.70	0.77	441

Notes:

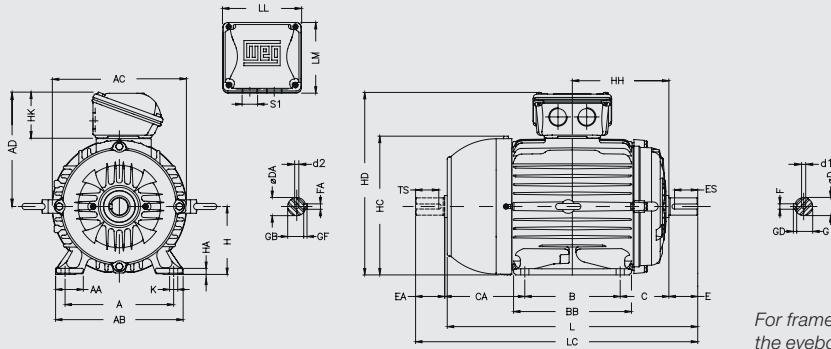
(4) Motors do not comply with IE3 (60Hz) efficiency values from IEC 60034-30-1 at 50°C. According to the standard they comply with IE2.

* Derated output at 50°C with class B temperature rise (70K). For class F temperature rise the rated output and IE code at 40°C can be considered (electrical data per standard WEG W22 catalogue).

Mechanical Data

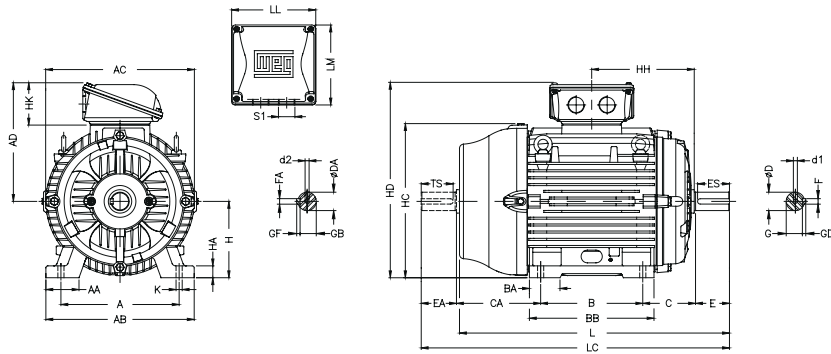
Foot Mounted Motors, Terminal Box on Top

Frames 63 to 132M/L

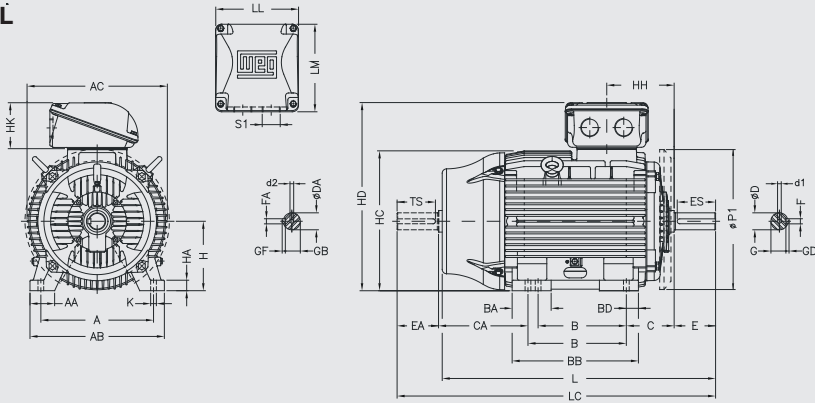


For frames 132S, 132M/L and 132M, the eyebolt will be fitted at 50°.

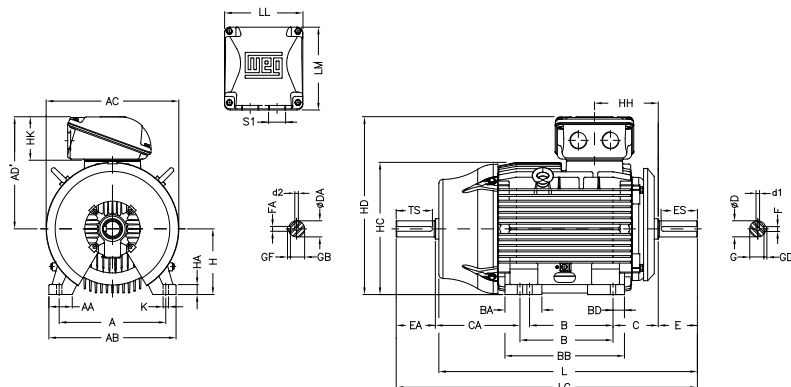
Frames 160M to 200L



Frames 225 to 355M/L



Frame 355A/B



* Some outputs in frame sizes 355 are equipped with an air deflector at the D.E. In this case the dimension P1 is 880mm.

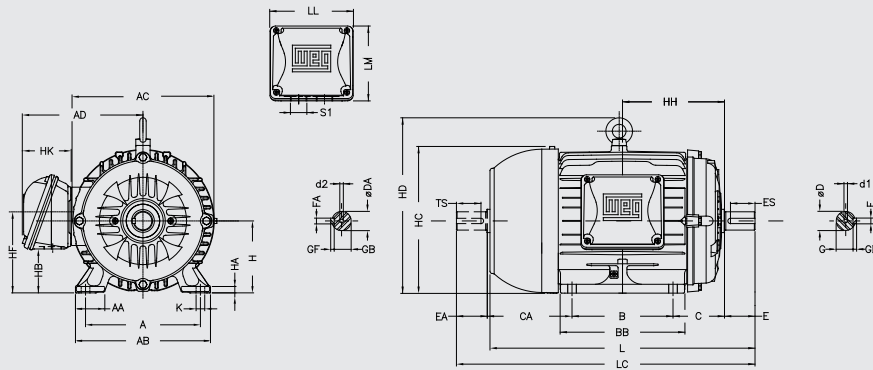
Frame	A	AA	AB	AC	AD	B	BA	BB	BD	C	CA	Shaft																
												D	DA	E	EA	ES	F	FA	G	GB	GD	GF	TS					
63	100	25.5	116	125	122	80		95		40	78	11j6	9j6	23	20	14	4	3	8.5	7.2	4	3	12					
71	112	28.5	132	141	130	90		113.5		45	88	14j6	11j6	30	23	18	5	4	11	8.5	5	4	14					
80	125	30.5	149	159	139	100		125.5		50	93	19j6	14j6	40	30	28	6	5	15.5	11	6	5	18					
L80																								142				
90S	140	36.5	164	179	157						125		131		56	104	24j6	16j6	50	40	36	8	20	13	7	6	28	
L90S																												135
90L																												104
L90L																												135
100L	160	40	188	199	167	140		173		63	118	22j6	60	50	45	6	24	18.5	7	6	36							
L100L																						162						
112M											190	40.5	220	222	192	177		187		70	128	24j6	80	60	63	10	8	33
L112M	158																											
132S	216	51	248	271	218	178		225		89	150	38k6	28j6	80	60	63	12	12	37	37	9	9	80					
132M/L																								254				
160M	254	64	308	329	264	210	63	254		108	174	42k6	42k6	110	110	80	14	14	42.5	42.5	10	8						
160L																								254				
180M	279	78	350	360	279	241	70	294		121	200	48k6	48k6	110	110	80	16	14	49	9	9	80						
180L																							279					
200M	318	82	385	402	317	267	82	332		133	222	55m6		110	110	80	16	14	49	9	9	80						
200L																							305					
225S/M	356	80	436	455	384	286/311	124	412	41	149	319/294	55m6(*)	55m6(*)	110(*)	110(*)	100(*)	16(*)	16(*)	49(*)	49(*)	10(*)	10(*)	100(*)					
250S/M	406	100	506	486	402	311/349	146	467	59	168	354/316	60m6(*)	60m6(*)	140(*)	140(*)	125(*)	18(*)	18(*)	53(*)	53(*)	11(*)	11(*)	125(*)					
280S/M	457		557	599	472	368/419	151	517	49	190	385/334	65m6(*)	60m6(*)	140(*)	140(*)	125(*)	18(*)	18(*)	58(*)	53(*)	11(*)	11(*)	125(*)					
315S/M	508	120	630	657	530	406/457	184	621	70	216	494/443	65m6(*)	60m6(*)	140(*)	140(*)	125(*)	18(*)	18(*)	58(*)	53(*)	11(*)	11(*)	125(*)					
315L					575	508	219	752	81		497	80m6	65m6	170	140	160	22	18	71	58	14	14	125					
355M/L	610	140	750	736	625	560/630	230	760	65	254	483/413	75m6(*)	60m6(*)	140(*)	140(*)	125(*)	20(*)	18(*)	67.5(*)	53(*)	12(*)	11(*)	125(*)					
355A/B					755	710/800	325	955	70		528/438	100m6	80m6	210	170	200	28	22	90	71	16	14	160					

Frame	H	HA	HC	HD	HH	HK	K	L	LC	LL	LM	S1	d1	d2	Bearings		
															DE	NDE	
															63	63	7
71	71	145	204	90	M5	6202 - ZZ											
80	80	8	163	222	100	67	10	325	362	115	104	2xM25x1.5	M8	M6	6205 - ZZ	6204 - ZZ	6203 - ZZ
L80								304	350								
90S	90	9	182	249	106	80	12	335	381	140	133	2xM32x1.5	M10	M8	6206 - ZZ	6205 - ZZ	6206 - ZZ
L90S								329	375								
90L								360	406								
L90L								376	431								
100L	100	10	205	272	133	101	14.5	420	475	198.5	190	2xM40x1.5	M16	M16	6309 - C3	6209 - Z-C3	6207 - ZZ
L100L								490	557								
112M	112	20	266	354	159	176	18.5	452	519	230	220	2xM50x1.5	M20	M20	6312 C3	6212 Z-C3	6207 - ZZ
L112M								490	557								
132S	132	20	266	354	178	176	24	515	582	314	312	2xM63x1.5	M20	M20	6314 C3	6214 Z-C3	6207 - ZZ
132M								598	712								
132M/L	160	22	327	432	213	101	14.5	642	756	198.5	190	2xM40x1.5	M16	M16	6311 - C3	6211 - Z-C3	6207 - ZZ
160M								664	782								
160L	180	28	363	467	241.5	119.5	18.5	702	820	230	220	2xM50x1.5	M20	M20	6314 C3	6214 Z-C3	6207 - ZZ
180M								266.5									
180L	200	30	405	526.5	266.5	119.5	18.5	767	880	230	220	2xM50x1.5	M20	M20	6314 C3	6214 Z-C3	6207 - ZZ
200M								856(*)	974(*)								
200L	225	34	453	606	212	153	24	886	1034	269	285	2xM63x1.5	M20	M20	6314 C3	6214 Z-C3	6207 - ZZ
225S/M								965	1113								
250S/M	250	43	493	646	214	176	28	1071	1223	314	312	2xM63x1.5	M20	M20	6314 C3*	6316 C3	6207 - ZZ
280S/M	280	42	580	727	266	147	28	1244(*)	1392(*)	379	382	2xM80x2	M24	M24	6319 C3	6316 C3	6207 - ZZ
315S/M	315	48	664	864	264	176	28	1274	1426						404	436	2xM80x2
L80								1353(*)	1505(*)								
90S	355	50	723	943	340	220	28	1383	1535	460	544	2xM80x2	M24	M24	6319 C3	6316 C3	6207 - ZZ
L90S								1412(*)	1577(*)								
90L	355	50	723	943	340	220	28	1482	1677	460	544	2xM80x2	M24	M24	6319 C3	6316 C3	6207 - ZZ
L90L								1607(*)	1772(*)								
100L	355	50	723	943	340	220	28	1677	1872	460	544	2xM80x2	M24	M24	6319 C3	6316 C3	6207 - ZZ
L100L								1677	1872								

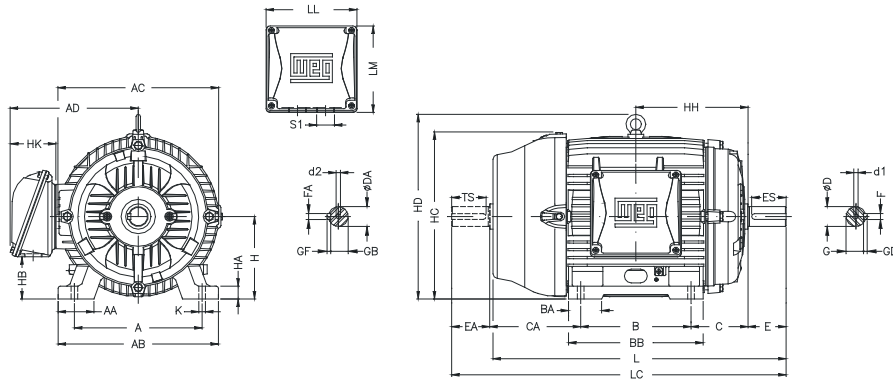
Notes:
 (*) Dimension applicable to 2 pole motors.

Foot Mounted Motors, Terminal Box on the Left or Right Side

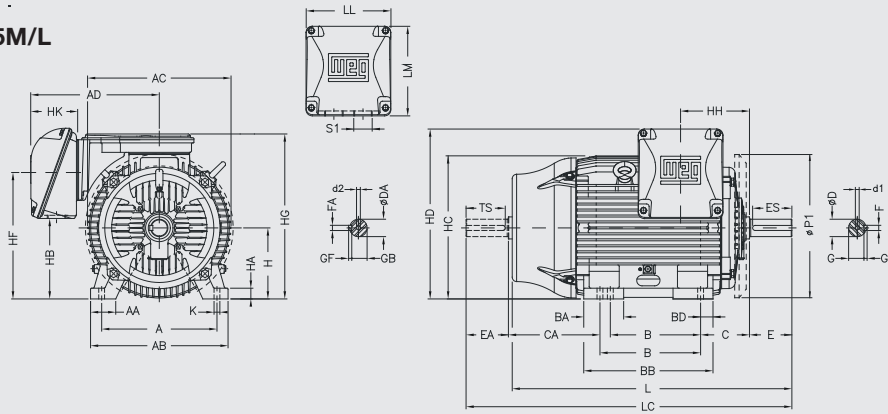
Frames 63 to 132M/L



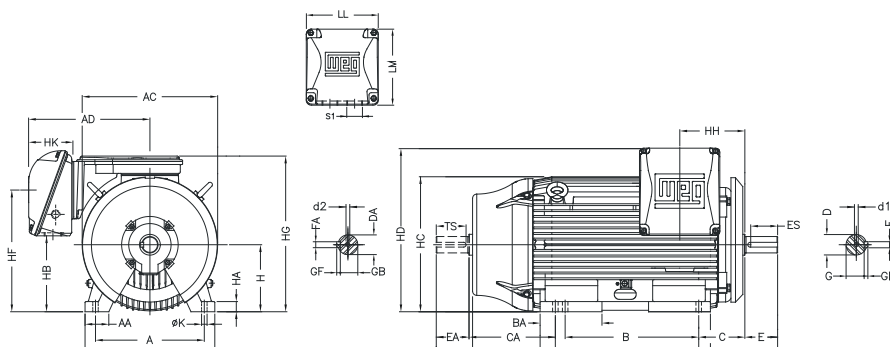
Frames 160M to 200L



Frames 225 to 355M/L



Frame 355A/B



* Some outputs in frame sizes 355 are equipped with an air deflector at the D.E. In this case the dimension P1 is 880mm

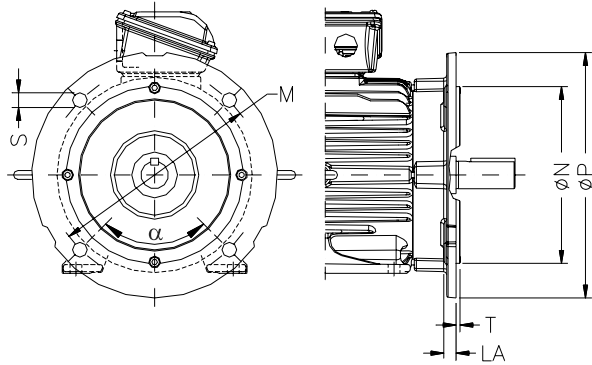
Frame	A	AA	AB	AC	AD	B	BA	BB	C	CA	Shaft												
											D	E	ES	F	G	GD	DA	EA	TS	FA	GB	GF	
63	100	25,5	116	125	123	80		95	40	78	11j6	23	14	4	8,5	4	9j6	20	12	3	7,2	3	
71	112	28,5	132	141	131	90		113,5	45	88	14j6	30	18	5	11	5	11j6	23	14	4	8,5	4	
80	125	30,5	149	159	140	100		125,5	50	93	19j6	40	28	6	15,5	6	14j6	30	18	5	11	4	8,5
L80																							
90S	140	36,5	164	179	159	125		131	56	104	24j6	50	36	8	20	7	16j6	40	28	5	13	5	
L90S																							135
90L																							104
L90L																							135
100L	160	40	188	199	169	140		173	63	118	28j6	60	45	8	24	7	22j6	50	36	6	18,5	6	
L100L																							118
112M																							128
L112M	190	40,5	220	222	192	140		177	70	158	28j6	60	45	8	24	7	24j6	50	36	6	18,5	6	
L132S																							128
132M	216	45	248	272	220	178		187	89	150	38k6	80	63	10	33	8	28j6	60	45	8	24	7	
L132M/L																							225
160M	254	64	308	329	266	210	63	254	108	174	42k6	110	80	12	37	8	42k6	110	80	12	37	8	
160L																							254
180M																							241
180L																							279
200M	318	82	385	402	319	267	82	305	370	222	55m6	110	80	16	49	10	48k6	110	80	14	42,5	9	
200L																							305
225S/M	356	80	436	455	410	286/311	124	412	149	319/294	55m6*	110*	100*	16*	49*	10*	55m6*	110*	100*	16*	49*	10*	
250S/M																							60m6
280S/M	457	100	557	599	445	368/419	151	517	190	385/334	60m6*	140	125	18	53	11	60m6	140	125	18	53	11	
315S/M																							65m6
315L	508	120	630	657	525	406/457	184	621	216	494*/443	65m6*	140*	125*	18*	58*	11*	60m6*	140	125	18	53*	11*	
355M/L																							80m6
355A/B	610	140	750	736	701	710/800	325	955	254	483/413	75m6*	140*	125*	18*	67,5*	12*	60m6*	140*	125*	18*	53*	11*	
355A/B																							528/438

Frame	H	HA	HB	HC	HD	HF	HG	HH	HK	LL	LM	K	L	LC	S1	d1	d2	Bearing		
																		DE	NDE	
63	63		25,5	130		68,5		80				7	216	241	2xM20x1.5			6201 ZZ		
71	71	7	33	-		76		90	59	108,5	99		248	276				6202 ZZ		
80	80	8	43,5	-	-	87		100				10	276	313	2xM25x1.5			6204 ZZ		
L80																		325	362	6204 ZZ
90S	90	9	45	-	-	90		106				12	304	350	2xM25x1.5			6205 ZZ		
L90S																		335	381	6205 ZZ
90L																		329	375	6205 ZZ
L90L																		360	406	6205 ZZ
100L	100	10	61,5	-	244	106,4		133				14	376	431	2xM40x1.5			6206 ZZ		
L100L																		420	475	6206 ZZ
112M																		393	448	6206 ZZ
L112M	112		54,5	-	280	112		140				12	423	478	2xM32x1.5			6207 ZZ		
L132S																		452	519	6207 ZZ
132M	132	16	75	274	319	132		178				14,5	490	557	2xM40x1.5			6308 ZZ		
L132M/L																		515	582	6308 ZZ
160M	160	22	79	331	374	168		213				18,5	598	712	2xM50x1.5			6309 C3		
160L																		642	756	6209 Z-C3
180M																		664	782	6311 C3
180L																		702	820	6211 Z-C3
200M	200	30	119	407	464	218		266,5				24	729	842	2xM50x1.5			6312 C3		
200L																		767	880	6312 Z-C3
225S/M	225	34	254	453	541	421	534	212	153	269	285	18,5	856*	974*	2xM50x1.5			6314 C3		
250S/M																		886	1034	6314 C3
280S/M	280	42	386	580	700	572	686	266	147	314	312	24	965	1113	2xM63x1.5		DM20	6314 C3*		
315S/M																		1071	1223	6316 C3
315L	315	48	386	644	768	615	744	264	176	379	382	28	1244*	1392*	2xM63x1.5		DM20	6314 C3*		
355M/L																		1274	1426	6319 C3
355A/B			1353*	1501*	6319 C3															
355A/B			1383	1536	6319 C3															
355M/L	355	50	461	723	898	700	885	340	220	404	436	28	1412*	1577*	2xM80x2		DM20*	6316 C3*		
355M/L																		1482	1677	6322 C3
355A/B	355	50	411	723	955	700	885	340	290	460	544	28	1607*	1772*	2xM80x2		DM20*	6316 C3*		
355A/B																		1677	1872	6322 C3

Notes:
 (*) Dimension applicable to 2 pole motors.

Flange Mounted Motors

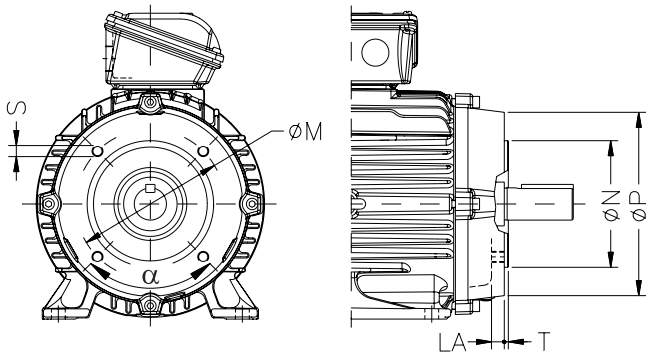
“FF” Flange



Flange “FF”									
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		130	110	160		3.5		
80	FF-165	10	165	130	200	12	3.5		
90									
100	FF-215	11	215	180	250	15	4		
112									
132	FF-265	12	265	230	300	19	5		
160	FF-300	18	300	250	350	19	5		
180									
200	FF-350	18	350	300	400	19	5		
225	FF-400	18	400	350	450	19	5		
250	FF-500	18	500	450	550	19	5	22°30'	8
280									
315	FF-600	22	600	550	660	24	6		
355	FF-740								

*Only for motors fitted with air deflector in drive end side.

“C-DIN” Flange



Frame	Flange	LA	M	N	P	S	T	α	N° of holes
63	C-90	9.5	75	60	90	M5	2.5	45°	4
71	C-105	8	85	70	105	M6			
80	C-120	10.5	100	80	120	M8	3		
90	C-140	12	115	95	140				
100	C-160	13.5	130	110	160	M8	3.5		
112									
132	C-200	15.5	165	130	200	M10	6.3		
160	C-250	19	215	180	249	M12			

Drip Cover Data

Utilization of a rain drip cover increases the total length of the motor. The additional land length can be seen on the table below.

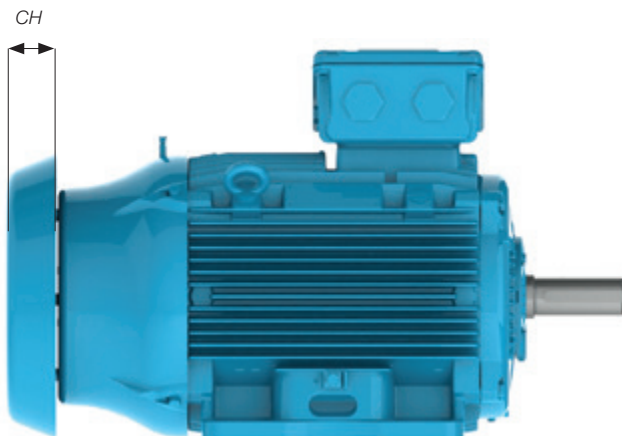
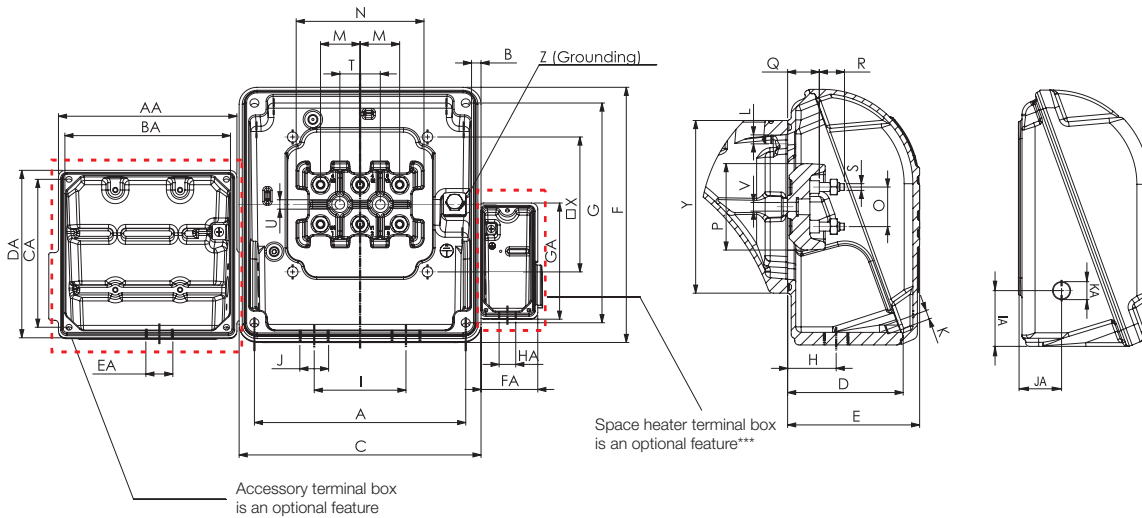


Figure 34 - Motor with drip cover

Frame	Dimension CH (increase motor length (mm))
63	18
71	
80	
90	
100	28
112	31
132	
160	47
180	57
200	67
225S/M	81
250S/M	
280S/M	
315S/M	
315L	
355M/L	
355A/B	

Terminal Box Drawings



Frame	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
63	90	3.5	108.5	51.5	59	99	85	27	42	2xM20x1.5	M5x0.8	M5x0.8	16	75	16	35	13.5	12	M4x0.7	20	5.8
71																					
80																					
90	98	3	115	59.5	67	104	91	31	42	2xM25x1.5	M6x1.0	M6x1.0	23	55	23	52	17	16	M5x0.8	23	6.5
100																					
112	117	2.5	140	71	80	133	117	36.5	54	2xM32x1.5	M6x1.0	M6x1.0	23	55	23	52	17	16	M5x0.8	23	6.5
132																					
160	175	4	198.5	90	101	190	175	49	84	2xM40x1.5	M8x1.25	M8x1.25	28	90	28	60	21.5	20.5	M6x1	28	6.6
180																					
200	204	4.5	230	107	119.5	220	204	59	94	2xM50x1.5	M8x1.25	M8x1.25	35	112	35	74	24	24	M8x1.25	35	9.5
225S/M																					
250S/M	235	12.5	269	133	153	285	260	71	110	2xM63x1.5	M10x1.5	M10x1.5	44	140	44	94	28	28	M10x1.5	45	10.5
280S/M																					
315S/M	275	13.5	314	162	176	382	345	78	160	2xM63x1.5	M12x1.75	M12x1.75	45	153	45	108	34	40	M12x1.75	65	10.5
315L																					
355M/L	340	14.5	379	162	176	382	345	78	160	2xM63x1.5	M12x1.75	M14x2.0	65	210	65	146	48	48	M16x2.0	65	10.5
355M/L																					
355A/B(**)	415	-	460	267 232*	290	544	678	187 152(*)	140	2xM80x2	M10x1.5	M12x1.75	80	-	105	-	-	-	M20x2.5	-	-

Frame	V	X	Y	Z	AA	BA	CA	DA	EA	FA	GA	HA	IA	JA	KA	Max number of connectors			
																Main	Accessories	Space heater	
63	M5x0.8	56	77	0.5-6 mm ²	109	90	85	98	M20x1.5	68	101.4	M20x1.5	23	17.5	M20x1.5	4	16	4	
71			78																
80			81																
90			77																
100			81																
112			107																
132	103	2-10 mm ²																	
160	M6x1.0	110	140	5.2-25 mm ²	139	117	117	133	M20x1.5	68	101.4	M20x1.5	47	40	M20x1.5	12	26	4	
180			155																5.2-35 mm ²
225S/M	M10x1.5	150	192	25-50 mm ²	198	175	175	189	M20x1.5	68	131.2	M20x1.5	62	48	M20x1.5	16	26	4	
250S/M			197																
280S/M			204																
315S/M			200																35-70 mm ²
315L			260																
355M/L			300																85-120 mm ²
355A/B(**)	4xM6x1,5	290	290	85-120 mm ²	198	175	175	189	M20x1.5	68	131.2	M20x1.5	57	95	M20x1.5	16	26	4	

Notes:
 (*) Dimension is applicable to right or left terminal box mounting
 (**) Oversized terminal box
 (***) Space heater terminal box is a special feature for frame sizes 63 to 112.

WEG Worldwide Operations

ARGENTINA

San Francisco - Cordoba
Phone: +54 3564 421484
info-ar@weg.net

Cordoba - Cordoba
Phone: +54 351 4641366
weg-morbe@weg.com.ar

Buenos Aires
Phone: +54 11 42998000
ventas@pulverlux.com.ar

AUSTRALIA

Scoresby - Victoria
Phone: +61 3 97654600
info-au@weg.net

AUSTRIA

Markt Piesting - Wiener
Neustadt-Land
Phone: +43 2633 4040
watt@wattdrive.com

BELGIUM

Nivelles - Belgium
Phone: +32 67 888420
info-be@weg.net

BRAZIL

Jaraguá do Sul - Santa Catarina
Phone: +55 47 32764000
info-br@weg.net

CHILE

La Reina - Santiago
Phone: +56 2 27848900
info-cl@weg.net

CHINA

Nantong - Jiangsu
Phone: +86 513 85989333
info-cn@weg.net

Changzhou - Jiangsu
Phone: +86 519 88067692
info-cn@weg.net

COLOMBIA

San Cayetano - Bogota
Phone: +57 1 4160166
info-co@weg.net

ECUADOR

El Batan - Quito
Phone: +593 2 5144339
ceccato@weg.net

FRANCE

Saint-Quentin-Fallavier - Isère
Phone: +33 4 74991135
info-fr@weg.net

GERMANY

Türnich - Kerpen
Phone: +49 2237 92910
info-de@weg.net

Balingen - Baden-Württemberg
Phone: +49 7433 90410
info@weg-antriebe.de

Homberg (Efze) - Hesse
Phone: +49 5681 99520
info@akh-antriebstechnik.de

GHANA

Accra
Phone: +233 30 2766490
info@zestghana.com.gh

INDIA

Bangalore - Karnataka
Phone: +91 80 41282007
info-in@weg.net

Hosur - Tamil Nadu
Phone: +91 4344 301577
info-in@weg.net

ITALY

Cinisello Balsamo - Milano
Phone: +39 2 61293535
info-it@weg.net

JAPAN

Yokohama - Kanagawa
Phone: +81 45 5503030
info-jp@weg.net

MALAYSIA

Shah Alam - Selangor
Phone: +60 3 78591626
info@wattdrive.com.my

MEXICO

Huehuetoca - Mexico
Phone: +52 55 53214275
info-mx@weg.net

Tizayuca - Hidalgo
Phone: +52 77 97963790

NETHERLANDS

Oldenzaal - Overijssel
Phone: +31 541 571080
info-nl@weg.net

PERU

La Victoria - Lima
Phone: +51 1 2097600
info-pe@weg.net

PORTUGAL

Maia - Porto
Phone: +351 22 9477700
info-pt@weg.net

RUSSIA and CIS

Saint Petersburg
Phone: +7 812 363 2172
sales-wes@weg.net

SOUTH AFRICA

Johannesburg
Phone: +27 11 7236000
info@zest.co.za

SPAIN

Coslada - Madrid
Phone: +34 91 6553008
wegiberia@wegiberia.es

SINGAPORE

Singapore
Phone: +65 68589081
info-sg@weg.net

Singapore
Phone: +65 68622220
watteuro@watteuro.com.sg

SCANDINAVIA

Mölnlycke - Sweden
Phone: +46 31 888000
info-se@weg.net

UK

Redditch - Worcestershire
Phone: +44 1527 513800
info-uk@weg.net

UNITED ARAB EMIRATES

Jebel Ali - Dubai
Phone: +971 4 8130800
info-ae@weg.net

USA

Duluth - Georgia
Phone: +1 678 2492000
info-us@weg.net

Minneapolis - Minnesota
Phone: +1 612 3788000

VENEZUELA

Valencia - Carabobo
Phone: +58 241 8210582
info-ve@weg.net

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



WEG Group - Motors Business Unit
Jaraguá do Sul - SC - Brazil
Phone: +55 47 3276 4000
info-br@weg.net
www.weg.net

