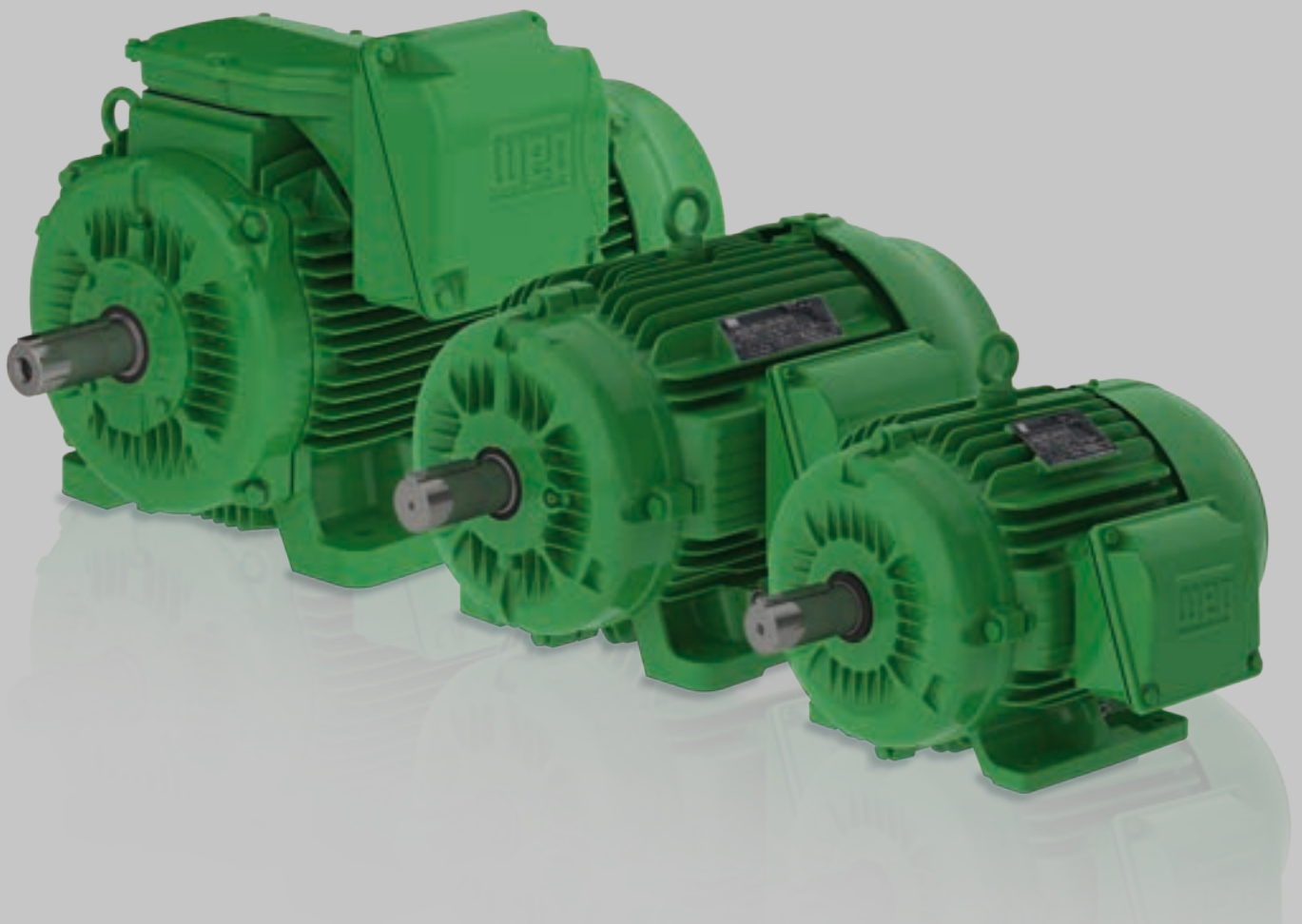


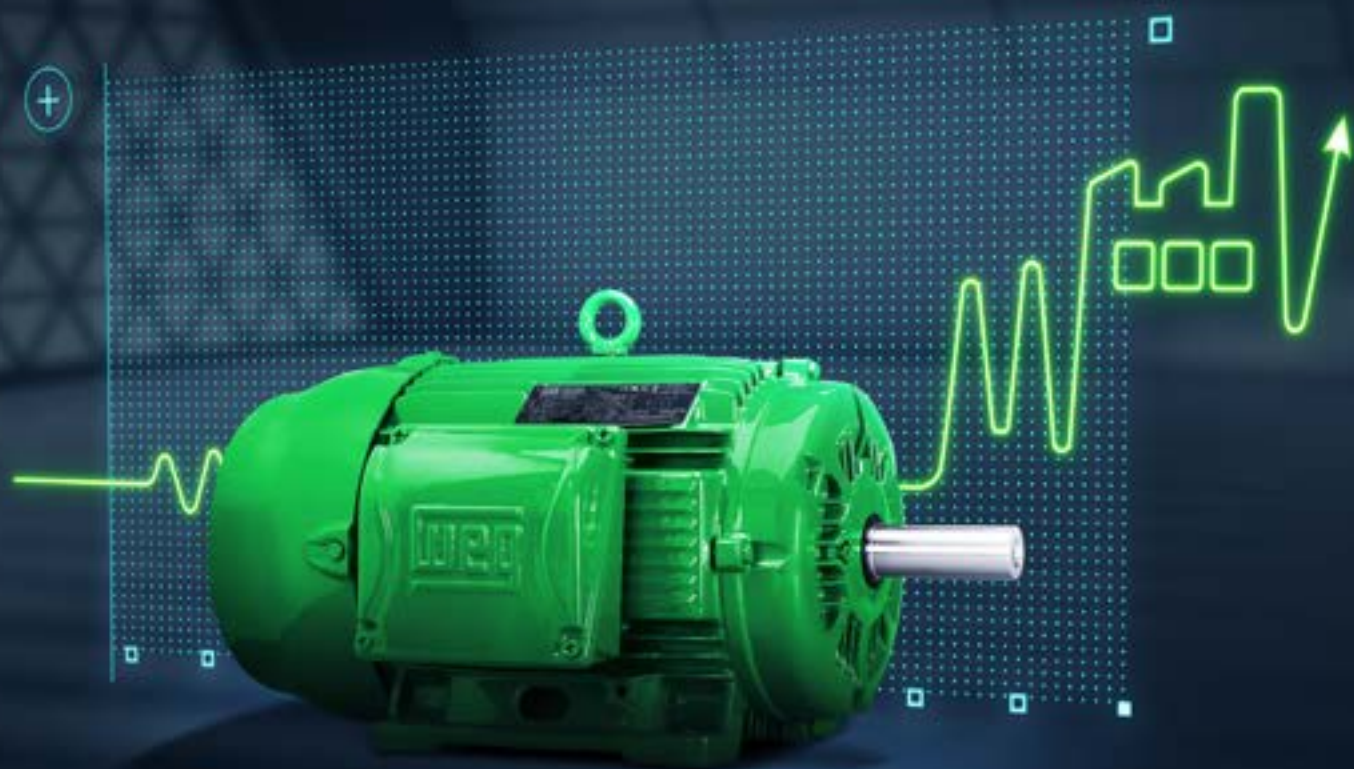
W22 IE3 Premium

Three-phase Induction Motor



Motors | Automation | Energy | Transmission & Distribution | Coatings

EFFICIENCY THAT TURNS INTO GREAT SAVINGS



W22 IE3 Premium Efficiency

A design created to anticipate concepts on performance and energy savings



In the last two decades, the global energy consumption has increased by 50%. And the forecast for the next two forthcoming decades is to keep this growing rate constant.



This increasing demand for electrical energy to sustain global development requires consistent heavy investments in power supply generation. However, in addition to complex medium and long term planning, these investments rely on natural resources, which are becoming depleted due to constant pressures upon the environment.



As a reflex of this scenario, electric energy costs are vertiginously rising, and in comparison to other economic indicators, standing out negatively. One of the main responsible for this accenting grow is the industrial segment, which demands around 30% of the electric energy globally available. And, in industrial applications, electric motors driven systems represents around 65% of all energy consumption.



If we consider industrial and domestic applications, including appliances to our analysis, the electric motor energy consumption represents more than 40% of the total.



This emphasizes the world's demand for more and more efficient products that may not only break this increasing demand, but also provide its reduction and, consequently, energy and money saving.



With this situation in mind WEG presents its W22 IE3 Premium efficiency motor line, meeting the IE3 Efficiency Levels defined in IEC 60034-30-1.

High overall performance which is translated into a lower Total Cost of Ownership, due to its reliability, easy maintenance and energy savings!

Product Overview

Standard Features

- Three-phase motors
- Efficiency level: IE3
- Cooling method: TEFC (Totally enclosed fan cooled) - IC411 according to DIN EN 60034-6
- Rated output: 0,12 to 500 kW
- Number of poles: 2, 4, 6 and 8
- Frame sizes: 63 up to 355A/B
- Frequency: 50 Hz
- Voltage: 220-240/380-415 V (up to frame size 100L)
380-415/660 V (112M and above)
- Design N
- Color: RAL 6002
- Service factor: 1.15 (up to frame size 280S/M)
1.00 (315S/M and above)
- Ambient temperature: -20 up to +40 °C, at 1000 m.a.s.l.
- Class "H" insulation
- Degree of protection: IP66
- Mounting: B3R
- Vibration level: Grade A
- Continuous duty: S1
- Thermistors for frames 225S/M and above
- Squirrel cage rotor / Aluminium die cast
- Shaft seal: Oil seal double lip for frames 63 to 200L
W3Seal® for frames 225S/M to 355A/B
- Stainless steel nameplate with MASC marking
- Fan cover: Steel for frames 63 to 132M/L
Cast iron for frames 160M and above
- Grease nipple for frames 225S/M to 355A/B
- Metric threaded cable entries
- WISE® (WEG Insulation System Evolution)**
- Insulated non-drive endshield for frames 315S/M to 355A/B
- Terminal block: BMC (6 terminals)
- Terminal box material: cast iron
- Threaded plastic plug on the terminal box cables outlet
- Fan material : 2 poles:
Polypropylene (for frames 63 up to 355M/L)
Aluminium (for frame 355A/B)
4 poles and above:
Polypropylene (for frames 63 up to 315S/M)
Aluminium (for frames 315L up to 355A/B)

Optional Available

- Voltage: 525-550 V (up to frame size 132)
525-550-575/1000 V (160 and above)
- Fan material: Aluminium (2-pole motors)
- Other mounting forms: Flange FF, C-DIN
- Vibration level: Grade B
- Suitable to SPM adaptors (160M up to 355A/B)
- Space heaters
- Thermal protection: thermostats or RTD (Pt-100) in windings and bearings
- Additional terminal box for accessories (cast iron)
- Stainless steel shaft
- Encoder
- Cable glands
- Cooling method: TEBC (Totally enclosed blower cooled) - IC 416
- Roller bearing (132S to 280S/M)

* For further details regarding inverter operation, please contact WEG technical support.

** Suitable for VFD use up to 575V*

WEG's IE3 Premium motors offers:

- Increased lubrication intervals
- Low operating temperatures
- Flexible terminal box design for frames 225 to 355
- Solid and integrated feet
- Oversized and diagonally slip terminal box
- Provisions for vibration detectors
- Rubber drains



Total Cost of Ownership Much more to be considered!

Most electric motors consume the energy equivalent of their acquisition costs in less than half year!

Industries Operating Costs

Industries require several resources to support their transformation activities such as water, compresses air, steam, electric energy, etc.

And these resources play a major task at the company results, since they directly impact on the final company prices, affecting the general competitiveness.

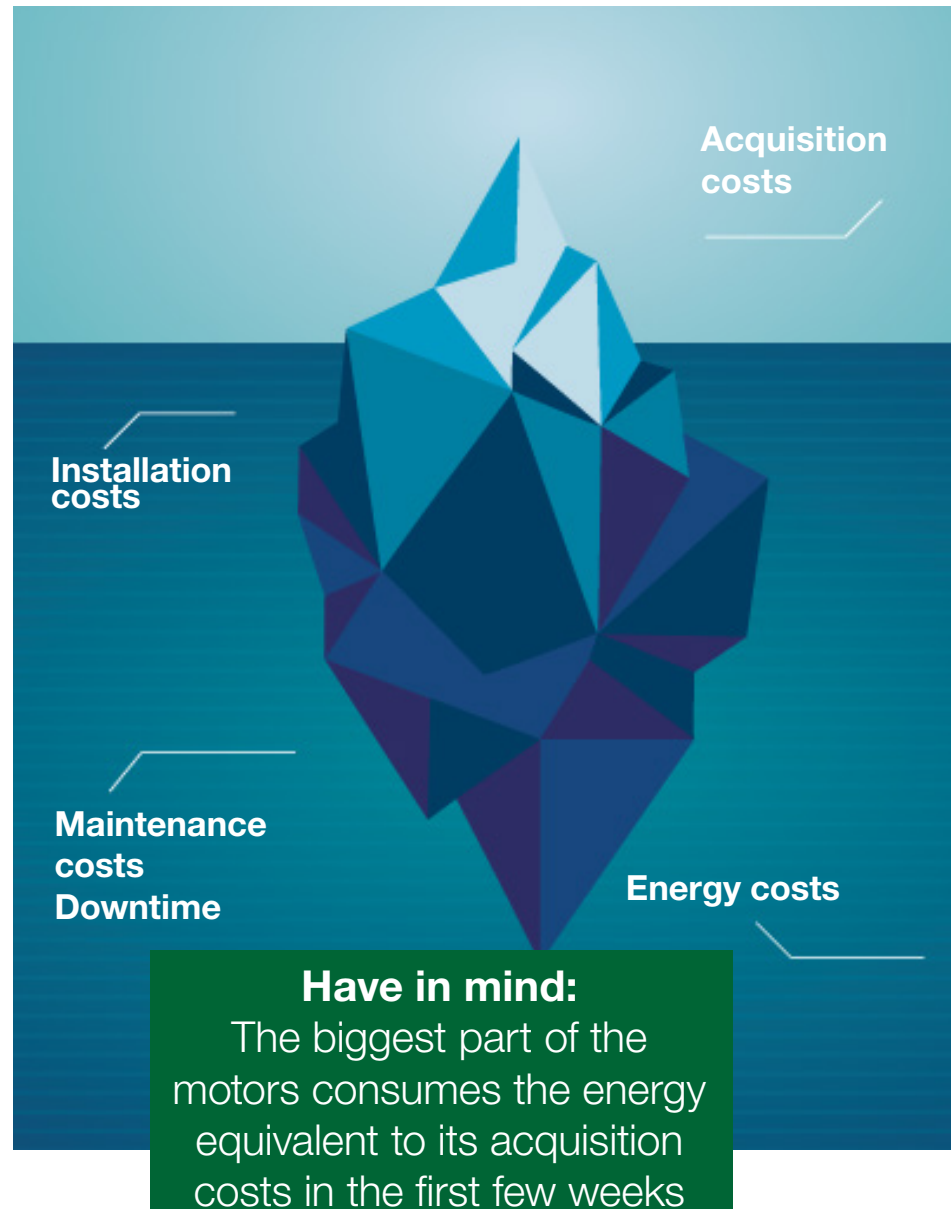
Due to the hard competition, and the difficulty on reducing purchasing costs or even selling prices, a wise strategy may be focusing the efforts on saving

the resources during the production process.

WEG developed the W22 IE3 Premium efficiency motors to allow for significant electric energy savings due its extreme performance, being a great partner for the industries in the search for costs reduction.

Total Cost of Ownership

When companies need to get new electric motors, the most part of them considers as decisive item the acquisition cost. However, a proper evaluation shall consider all costs that are inherent to the ownership on equipment, such as purchasing, running and maintenance costs.

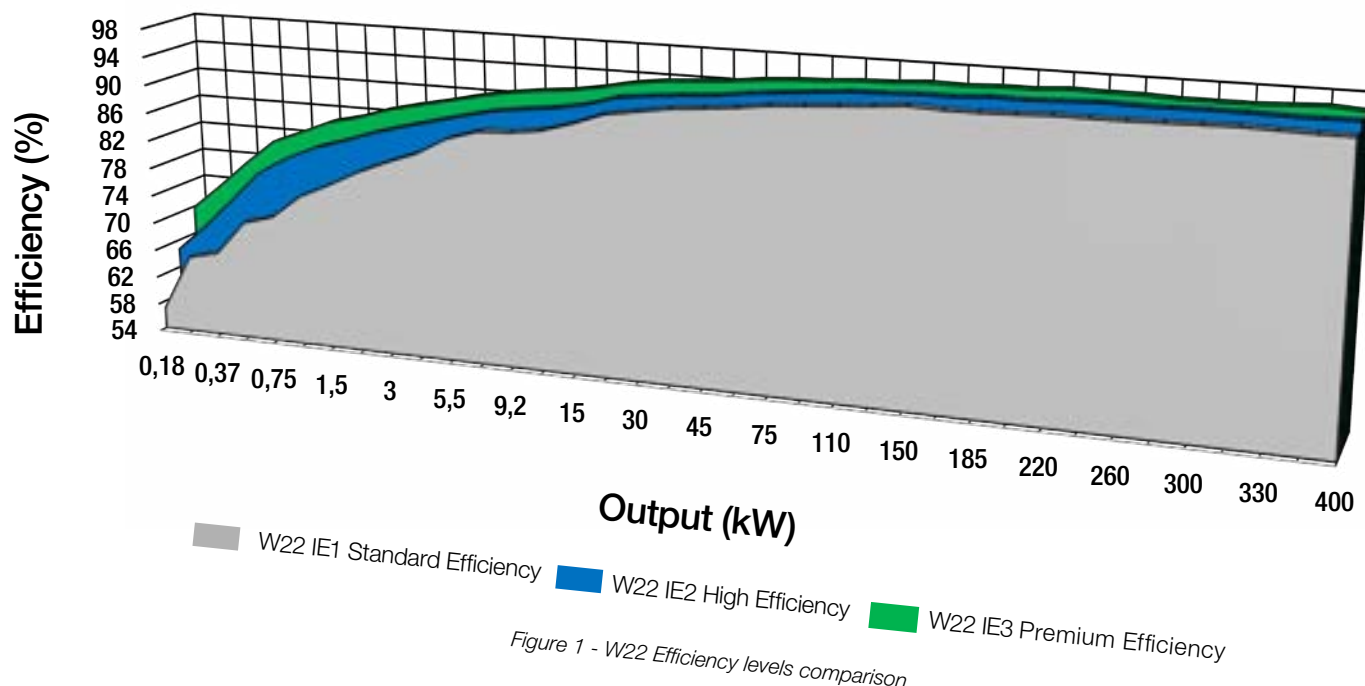


Learn how you can reduce even more your operating costs!

Typically applications do not run at full load all the time. Installing a VFD can help you save money by controlling the speed of your process and adjusting it to the specific load at any time. This is specifically true for variable torque applications like pumps and fans.

Click here and access WEG's Payback Tool.

Outstanding Performance



The comparative chart above shows the efficiency comparison between W22 4-pole motors with IE1, IE2 and the IE3 efficiency levels.

As motors usually run for thousands of hours every year, any gain in efficiency by replacing motors with higher efficiency versions, will translate into considerable savings which would pay for the investment in a few years and in some cases even months.

The IE3 Premium design, which presents from 20% less losses in comparison to the conventional

motors, provides high efficiency levels.

Because of this, the investment for the replacement of installed motors by the W22 IE3 Premium Efficiency motors returns in very short periods of time, resulting not only on energy savings, but also on plant reliability and availability, since new motors count on factory warranty and will renew your plant, valorizing your capital.

The energy savings will be even greater if the old motor has been subject to repairs during its lifetime!

Calculate your savings

$$\text{Demand Savings (kW)} = \left(\frac{\text{Output}_{(\text{existing motor})}(\text{kW})}{\left(\frac{\text{Efficiency}_{(\text{existing motor})}(\%)}{100} \right)} \right) - \left(\frac{\text{Output}_{(\text{new motor})}(\text{kW})}{\left(\frac{\text{Efficiency}_{(\text{new motor})}(\%)}{100} \right)} \right)$$

$$\text{Annual Energy Savings (kWh)} = \text{Demand Savings (kW)} \times \text{Operating days} \times \text{Operating hours}$$

$$\text{Annual Savings (R)} = \text{Annual Energy Savings (kWh)} \times \text{Energy Cost (R/kWh)}$$

The W22 IE3 Premium Efficiency motors are designed according to the DIN EN 50347 Standard, which means that you can replace an IE1 or IE2 motors with total reliability.

W22 IE3 Premium Technical Data

Output (kW)	II Poles		IV Poles		VI Poles		VIII Poles	
	Frame Size	Efficiency at Full Load	Frame Size	Efficiency at Full Load	Frame Size	Efficiency at Full Load	Frame Size	Efficiency at Full Load
0,12	63	60,8	63	64,8	63	57,7	71	52,9
0,18	63	65,9	63	69,9	71	63,9	80	58,7
0,25	63	69,7	71	73,5	80	68,6	80	64,1
0,37	71	73,8	71	77,3	80	73,5	90S	69,3
0,55	71	77,8	80	80,8	L80	77,2	90L	73
0,75	80	80,7	80	82,5	L90S	78,9	100L	75,1
1,1	80	83	90S	84,3	L90L	81	100L	77,7
1,5	90S	84,4	90L	85,3	100L	82,5	112M	79,7
2,2	90L	85,9	100L	86,7	112M	84,3	132S	81,9
3	100L	87,1	L100L	87,7	132S	85,6	132M	83,5
4	112M	88,2	112M	88,6	132M	86,8	160M	86,1
5,5	132S	89,2	132S	89,6	132M/L	88	160M	87,2
7,5	132S	90,1	132M	90,4	160M	89,1	160L	88,3
9,2	132M	90,8	132M/L	91	160L	90	180M	89
11	160M	91,2	160M	91,4	160L	90,3	180L	89,5
15	160M	91,9	160L	92,1	180L	91,2	200L	91
18,5	160L	92,4	180M	92,6	200L	91,7	225S/M	90,1
22	180M	92,7	180L	93	200L	92,2	225S/M	90,6
30	200L	93,3	200L	93,6	225S/M	92,9	250S/M	91,3
37	200L	93,7	225S/M	93,9	250S/M	93,3	280S/M	91,8
45	225S/M	94	225S/M	94,2	280S/M	93,8	280S/M	92,2
55	250S/M	94,3	250S/M	94,7	280S/M	94,2	315S/M	92,5
75	280S/M	94,7	280S/M	95	315S/M	94,8	315S/M	93,1
90	280S/M	95	280S/M	95,2	315S/M	95,1	315S/M	93,4
110	315S/M	95,4	315S/M	95,5	315S/M	95,1	315L	93,7
132	315S/M	95,6	315S/M	95,6	315S/M	95,6	355M/L	94
150	315S/M	95,6	315S/M	95,9	315L	95,7	355M/L	94,2
160	315S/M	95,8	315S/M	95,8	315L	95,8	355M/L	94,3
185	315S/M	95,8	315S/M	96	315L	95,8	355M/L	94,6
200	315L	96	315L	96	355M/L	95,8	355M/L	94,6
220	315L	96	315L	96,3	355M/L	96	355M/L	95,2
250	315L	96	315L	96,2	355M/L	95,8	355A/B	95,2
260	315L	96	315L	96,2	355M/L	95,8	355A/B	95,2
280	315L	96	315L	96	355M/L	96	355A/B	95,3
300	355M/L	96	315L	96	355M/L	96	—	—
315	355M/L	96	355M/L	96	355M/L	96	—	—
330	355M/L	96	355M/L	96,2	—	—	—	—
355	355M/L	95,8	355M/L	96,4	355A/B	95,8	—	—
370	355A/B	96,2	—	—	355A/B	95,8	—	—
400	355A/B	96,3	355A/B	96,1	355A/B	95,9	—	—
450	355A/B	96,4	355A/B	96,2	—	—	—	—
500	—	—	355A/B	96,3	—	—	—	—

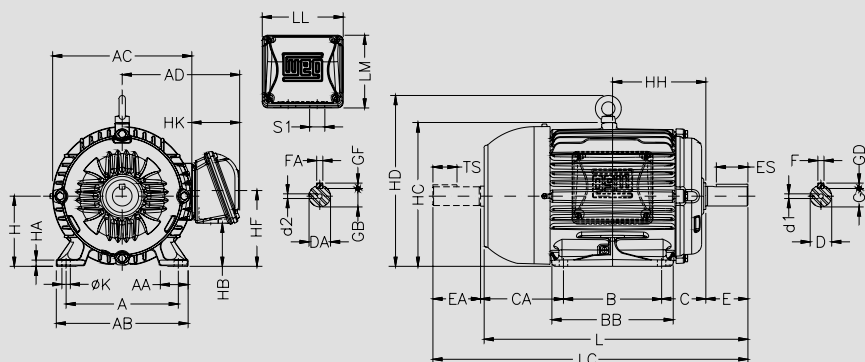
W22 IE3 Premium Performance Data

Output		Frame	Full Load Torque (Nm)	Locked Rotor Current I _L /I _N	Locked Rotor Torque T _L /T _N	Break-down Torque T _B /T _N	Inertia J (kgm²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	Rated speed (rpm)	400 V							Full load current I _N (A)
													% of full load							
								Efficiency					Power Factor							
kW	HP	50	75	100	50	75	100													
II Pole - 3000 RPM - 50 Hz																				
0,12	0,16	63	0,410	5,4	3,1	3,3	0,0001	30	66	6,9	52,0	2820	58,0	60,8	60,8	0,54	0,67	0,76	0,375	
0,18	0,25	63	0,600	5,2	3,0	3,2	0,0002	22	48	7,6	52,0	2860	61,0	65,9	65,9	0,53	0,65	0,74	0,533	
0,25	0,33	63	0,850	5,5	3,8	3,3	0,0002	17	37	7,8	52,0	2805	63,0	68,0	69,7	0,54	0,68	0,77	0,672	
0,37	0,5	71	1,25	6,0	2,5	2,5	0,0004	12	26	10,1	56,0	2820	73,0	73,8	73,8	0,66	0,79	0,85	0,851	
0,55	0,75	71	1,86	5,9	2,7	2,7	0,0005	15	33	11,0	56,0	2830	75,0	76,0	77,8	0,68	0,80	0,86	1,19	
0,75	1	80	2,51	7,5	3,2	3,2	0,0008	18	40	14,0	59,0	2860	80,0	82,0	81,0	0,60	0,73	0,81	1,65	
1,1	1,5	80	3,71	7,2	4,1	3,7	0,0009	23	51	14,8	59,0	2835	81,5	83,0	83,0	0,60	0,73	0,80	2,39	
1,5	2	90S	4,97	7,0	2,5	3,0	0,0020	10	22	21,5	62,0	2885	82,0	83,5	84,2	0,62	0,74	0,81	3,17	
2,2	3	90L	7,32	7,5	3,4	3,4	0,0026	12	26	25,0	62,0	2870	85,5	86,0	86,3	0,65	0,77	0,83	4,43	
3	4	100L	9,88	8,0	3,1	3,6	0,0064	15	33	32,8	67,0	2900	85,0	86,5	87,1	0,69	0,81	0,86	5,78	
4	5,5	112M	13,2	7,7	2,5	3,5	0,0081	14	31	42,5	62,0	2900	88,0	88,4	88,4	0,69	0,80	0,86	7,59	
5,5	7,5	132S	17,9	7,9	2,4	3,5	0,0180	12	26	61,0	63,0	2940	86,9	88,7	89,4	0,66	0,78	0,84	10,6	
7,5	10	132S	24,5	8,5	2,8	3,3	0,0234	10	22	68,6	63,0	2925	88,5	89,8	90,3	0,68	0,80	0,85	14,1	
9,2	12,5	132M	30,1	8,5	2,8	3,1	0,0303	16	35	83,2	63,0	2925	90,4	91,1	90,7	0,75	0,84	0,88	16,6	
11	15	160M	35,6	8,0	2,7	3,4	0,0482	12	26	113	67,0	2950	90,3	91,4	91,4	0,70	0,80	0,85	20,4	
15	20	160M	48,7	8,3	2,8	3,6	0,0551	8	18	120	67,0	2945	90,9	91,8	92,0	0,67	0,79	0,85	27,7	
18,5	25	160L	60,0	8,5	3,1	3,7	0,0663	6	13	135	67,0	2945	91,5	92,3	92,6	0,69	0,80	0,85	33,9	
22	30	180M	71,0	8,3	3,2	3,6	0,0968	6	13	166	67,0	2960	92,0	92,7	92,7	0,69	0,80	0,86	39,8	
30	40	200L	96,4	7,8	3,1	3,0	0,1703	16	35	230	72,0	2975	92,2	93,2	93,5	0,69	0,80	0,85	54,5	
37	50	200L	119	7,7	3,1	3,2	0,1881	11	24	246	72,0	2970	92,6	93,4	93,8	0,69	0,79	0,84	67,8	
45	60	225S/M	145	7,5	2,4	3,1	0,2861	13	29	396	74,0	2960	93,5	94,0	94,0	0,76	0,84	0,87	79,4	
55	75	250S/M	177	8,0	2,8	3,3	0,3736	19	42	466	74,0	2965	93,3	94,0	94,4	0,75	0,83	0,86	97,8	
75	100	280S/M	241	7,4	2,0	3,1	0,9386	20	44	680	77,0	2979	93,7	94,8	94,9	0,75	0,83	0,86	133	
90	125	280S/M	289	7,6	2,1	2,9	1,12	27	59	717	77,0	2976	94,3	95,2	95,2	0,81	0,87	0,89	153	
110	150	315S/M	353	7,5	1,9	3,0	1,66	38	84	900	77,0	2980	94,3	95,3	95,4	0,78	0,85	0,88	189	
132	175	315S/M	423	7,6	2,2	3,1	1,96	34	75	950	77,0	2980	94,5	95,4	95,6	0,78	0,86	0,89	224	
150	200	315S/M	481	7,8	2,3	3,0	2,18	20	44	1050	77,0	2979	95,0	95,6	95,6	0,80	0,86	0,89	254	
160	220	315S/M	513	7,5	2,2	2,9	2,24	28	62	1079	77,0	2980	95,1	95,8	95,8	0,79	0,86	0,89	271	
185	250	315S/M	594	7,6	2,3	3,1	2,46	22	48	1123	77,0	2978	95,4	95,8	95,8	0,79	0,86	0,88	317	
200	270	315L	642	7,6	2,3	2,9	2,68	23	51	1200	78,0	2975	95,7	96,2	96,0	0,82	0,88	0,90	334	
220	300	315L	705	8,5	2,7	3,1	3,13	23	51	1320	78,0	2981	95,9	96,0	96,0	0,81	0,88	0,90	368	
250	340	315L	802	7,5	2,4	2,7	3,57	21	46	1350	78,0	2980	95,5	96,0	96,0	0,85	0,90	0,91	413	
260	350	315L	835	7,8	2,4	2,5	3,57	21	46	1370	78,0	2975	96,3	96,0	96,0	0,85	0,90	0,91	430	
280	380	315L	898	7,5	2,5	2,7	4,17	22	48	1550	78,0	2980	95,4	95,8	96,0	0,84	0,89	0,91	463	
300	400	355M/L	960	8,0	2,3	2,9	5,58	22	48	1850	80,0	2985	95,4	95,8	96,0	0,84	0,89	0,91	496	
315	430	355M/L ⁽³⁾	1009	7,7	2,6	2,7	6,01	23	51	1950	80,0	2983	95,5	96,0	96,0	0,87	0,90	0,91	520	
330	450	355M/L	1058	7,7	2,3	2,5	6,01	28	62	1950	80,0	2980	95,2	95,8	96,0	0,87	0,90	0,91	545	
355	480	355M/L ⁽³⁾	1135	9,5	2,6	3,2	6,01	14	31	1950	80,0	2988	95,3	95,6	95,8	0,82	0,88	0,90	594	
370	500	355A/B ⁽³⁾	1184	7,9	2,5	2,8	6,76	40	88	2046	83,0	2985	95,8	96,1	96,4	0,85	0,89	0,90	616	
400	550	355A/B ⁽³⁾	1281	8,2	2,7	2,9	6,76	31	68	2250	83,0	2984	95,8	96,2	96,4	0,85	0,89	0,91	658	
450	610	355A/B ⁽³⁾	1442	7,5	2,8	2,7	7,40	31	68	2400	83,0	2982	95,8	96,2	96,4	0,85	0,90	0,91	740	
IV Pole - 1500 RPM - 50 Hz																				
0,12	0,16	63	0,820	4,4	2,3	2,3	0,0004	30	66	5,2	44,0	1395	57,0	63,0	64,8	0,52	0,62	0,73	0,366	
0,18	0,25	63	1,25	4,6	2,2	2,2	0,0006	30	66	14,0	44,0	1380	65,0	67,0	69,9	0,53	0,63	0,72	0,516	
0,25	0,33	71	1,69	4,8	2,4	2,4	0,0009	30	66	11,2	43,0	1410	69,0	72,0	73,5	0,52	0,62	0,72	0,682	
0,37	0,5	71	2,55	4,8	2,8	2,7	0,0008	30	66	11,4	43,0	1385	73,0	75,0	77,3	0,50	0,62	0,70	0,987	
0,55	0,75	80	3,69	6,6	2,7	3,0	0,0027	20	44	14,7	44,0	1425	77,0	79,0	80,8	0,61	0,74	0,80	1,23	
0,75	1	80	4,99	7,0	3,4	3,5	0,0032	18	40	15,9	44,0	1435	78,0	81,0	82,5	0,54	0,68	0,78	1,68	
1,1	1,5	90S	7,27	7,0	2,3	2,7	0,0055	15	33	21,1	49,0	1445	83,0	84,5	84,5	0,59	0,72	0,80	2,35	
1,5	2	90L	9,88	7,4	2,9	3,2	0,0066	13	29	24,6	49,0	1450	84,0	85,0	85,3	0,55	0,68	0,76	3,34	
2,2	3	100L	14,7	7,8	3,5	3,4	0,0090	18	40	32,5	53,0	1435	86,5	87,0	87,0	0,59	0,72	0,79	4,62	
3	4	L100L	19,9	7,8	3,9	3,2	0,0120	15	33	38,0	53,0	1440	87,0	88,0	88,0	0,60	0,73	0,80	6,15	
4	5,5	112M	26,4	7,0	2,6	3,1	0,0180	15	33	45,7	56,0	1450	88,7	89,1	88,8	0,59	0,71	0,78	8,34	
5,5	7,5	132S	35,9	8,3	2,3	3,3	0,0491	12	26	66,3	56,0	1465	89,0	89,6	89,7	0,66	0,78	0,84	10,5	
7,5	10	132M	49,1	8,3	2,4	3,5	0,0563	7	15	75,1	56,0	1460	90,5	90,8	90,6	0,63	0,76	0,84	14,2	
9,2	12,5	132M/L	60,0	8,6	2,8	3,5	0,0698	10	22	85,0	56,0	1465	90,3	91,0	91,0	0,64	0,76	0,82	17,8	
11	15	160M	71,3	7,5	2,8	3,2	0,1191	11	24	125	61,0	1475	91,1	91,8	91,6	0,65	0,77	0,83	20,9	
15	20	160L	97,5	7,6	2,8	3,1	0,1534	8	18	147	61,0	1470	92,2	92,5	92,3	0,66	0,77	0,83	28,3	
18,5	25	180M	120	7,5	3,0	3,2	0,1740	13	29	171	61,0	1470	91,8	92,6	92,6	0,64	0,76	0,82	35,2	
22	30	180L	143	7,3	3,4	3,4	0,209													

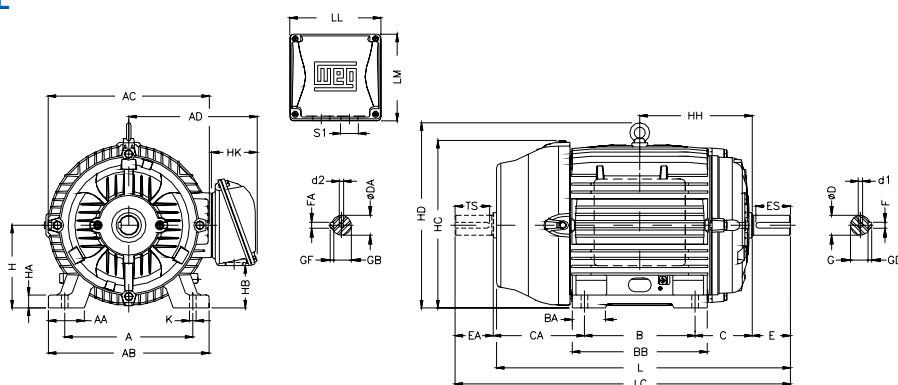
Output		Frame	Full Load Torque (Nm)	Locked Rotor Current I/In	Locked Rotor Torque Tl/Tn	Break-down Torque Tb/Tn	Inertia J (kgm²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	400 V								Full load current In (A)
								Rated speed (rpm)	% of full load											
									Efficiency			Power Factor								
kW	HP							Hot	Cold				50	75	100	50	75	100		
VI Pole - 1000 RPM - 50 Hz																				
0,12	0,16	63	1,24	3,1	2,1	2,3	0,0007	30	66	7,7	43,0	925	50,0	55,0	57,7	0,40	0,50	0,59	0,509	
0,18	0,25	71	1,91	3,2	2,0	2,1	0,0009	30	66	11,2	43,0	900	56,0	62,0	63,9	0,38	0,48	0,57	0,713	
0,25	0,33	80	2,50	4,3	2,0	2,4	0,0029	25	55	12,0	43,0	955	63,6	68,5	68,8	0,47	0,60	0,69	0,760	
0,37	0,5	80	3,82	4,2	2,1	2,1	0,0025	25	55	14,3	43,0	925	66,0	69,5	73,5	0,51	0,65	0,75	0,969	
0,55	0,75	L80	5,56	5,1	2,9	3,1	0,0037	20	44	18,8	43,0	945	70,5	75,2	77,2	0,45	0,58	0,69	1,49	
0,75	1	L90S	7,54	5,2	2,5	2,6	0,0060	31	68	24,2	45,0	950	76,5	79,0	79,0	0,49	0,62	0,71	1,93	
1,1	1,5	L90L	11,1	5,5	2,7	2,7	0,0077	20	44	28,5	45,0	945	79,3	81,4	81,0	0,50	0,64	0,73	2,69	
1,5	2	100L	15,0	5,5	2,7	2,7	0,0143	31	68	33,5	44,0	955	81,5	82,5	82,5	0,49	0,62	0,71	3,70	
2,2	3	112M	21,9	6,5	2,7	2,7	0,0257	26	57	46,0	49,0	960	83,0	84,5	84,5	0,48	0,61	0,71	5,29	
3	4	132S	29,6	6,1	1,9	2,4	0,0416	40	88	61,5	53,0	970	85,0	85,6	85,6	0,53	0,66	0,73	6,93	
4	5,5	132M	39,6	6,5	2,1	2,6	0,0492	20	44	69,8	53,0	965	86,0	86,8	86,8	0,53	0,66	0,73	9,11	
5,5	7,5	132M/L	54,2	7,3	2,6	2,8	0,0755	26	57	78,0	53,0	970	86,5	88,0	88,0	0,50	0,64	0,70	12,9	
7,5	10	160M	73,5	6,3	2,2	2,5	0,1404	16	35	118	57,0	975	88,5	89,3	89,1	0,62	0,74	0,80	15,2	
9,2	12,5	160L	90,2	6,5	2,3	2,9	0,1756	18	40	135	57,0	975	90,0	90,6	90,0	0,64	0,75	0,81	18,2	
11	15	160L	107	7,1	2,8	3,0	0,1931	12	26	142	57,0	978	89,0	90,1	90,5	0,56	0,70	0,77	22,8	
15	20	180L	147	8,2	2,8	3,2	0,2970	8	18	181	56,0	977	91,5	91,5	91,4	0,65	0,77	0,84	28,2	
18,5	25	200L	180	6,3	2,4	2,8	0,3510	16	35	222	60,0	980	91,0	91,7	91,9	0,63	0,75	0,81	35,9	
22	30	200L	215	6,4	2,4	2,8	0,4212	15	33	242	60,0	980	91,4	92,0	92,4	0,64	0,76	0,81	42,4	
30	40	225S/M	292	6,5	2,4	2,6	0,8194	15	33	404	63,0	982	93,0	93,4	93,1	0,67	0,78	0,83	56,0	
37	50	250S/M	359	7,2	2,5	2,7	1,24	20	44	497	64,0	985	93,3	93,5	93,5	0,70	0,80	0,85	67,2	
45	60	280S/M	435	6,4	2,1	2,5	2,35	28	62	640	65,0	988	93,9	93,9	93,9	0,67	0,77	0,82	84,4	
55	75	280S/M	532	6,8	2,2	2,5	2,69	24	53	721	65,0	988	94,0	94,2	94,3	0,66	0,77	0,82	103	
75	100	315S/M	722	6,3	2,0	2,5	4,35	37	81	920	67,0	992	94,6	94,9	94,9	0,67	0,77	0,82	139	
90	125	315S/M	869	6,4	2,2	2,5	5,42	35	77	990	67,0	990	95,1	95,5	95,1	0,68	0,78	0,83	165	
110	150	315S/M	1062	6,2	2,1	2,4	6,15	31	68	1040	67,0	990	95,4	95,6	95,3	0,70	0,80	0,83	201	
132	175	315S/M	1271	7,0	2,4	2,7	7,23	25	55	1100	67,0	992	95,4	95,8	95,6	0,67	0,77	0,82	243	
150	200	315L	1448	6,5	2,3	2,5	7,96	25	55	1200	68,0	990	95,4	95,8	95,7	0,67	0,78	0,83	273	
160	220	315L	1544	7,1	2,5	2,8	6,87	22	48	1230	68,0	990	95,6	95,6	95,8	0,67	0,77	0,82	294	
185	250	315L	1786	7,1	2,4	2,6	9,22	20	44	1300	68,0	990	95,0	95,8	95,8	0,65	0,76	0,81	344	
200	270	355M/L	1924	6,1	1,9	2,1	10,4	39	86	1676	73,0	993	95,5	96,0	95,9	0,66	0,76	0,80	376	
220	300	355M/L	2115	6,5	2,1	2,4	12,0	36	79	1857	73,0	994	95,0	95,5	96,0	0,63	0,74	0,79	419	
250	340	355M/L	2406	6,4	2,2	2,3	13,9	38	84	1830	73,0	993	95,7	95,9	95,9	0,64	0,75	0,79	476	
260	350	355M/L	2502	5,5	2,1	2,2	13,9	38	84	1830	73,0	993	95,7	95,9	95,9	0,64	0,75	0,79	495	
280	380	355M/L	2692	6,5	2,3	2,5	15,0	38	84	1970	73,0	994	95,1	95,1	96,0	0,64	0,75	0,80	526	
300	400	355M/L ⁽⁴⁾	2890	5,8	1,9	2,0	15,0	25	55	2493	73,0	992	95,8	96,0	96,0	0,63	0,74	0,80	564	
315	430	355M/L ⁽³⁾	3034	6,1	2,1	2,1	15,0	25	55	2493	73,0	992	95,2	95,8	95,8	0,66	0,76	0,80	593	
355	480	355A/B ⁽³⁾	3419	6,2	2,0	2,3	17,1	29	64	2200	73,0	992	95,3	95,7	95,8	0,63	0,74	0,79	677	
370	500	355A/B ⁽²⁾⁽³⁾	3571	6,0	2,2	2,3	18,0	25	55	2300	73,0	990	95,4	95,8	95,9	0,63	0,74	0,79	705	
400	550	355A/B ⁽²⁾⁽³⁾	3861	6,1	2,0	2,3	18,9	29	64	2346	73,0	990	95,4	95,8	95,9	0,63	0,74	0,79	762	
VIII Pole - 750 RPM - 50 Hz																				
0,12	0,16	71	1,76	2,4	1,8	1,9	0,0009	30	66	11,5	41,0	650	44,0	50,0	52,5	0,35	0,43	0,50	0,660	
0,18	0,25	80	2,53	3,3	2,0	2,2	0,0029	30	66	13,5	42,0	680	51,0	57,0	58,7	0,45	0,55	0,65	0,681	
0,25	0,33	80	3,44	3,5	2,0	2,2	0,0034	30	66	14,5	42,0	695	53,0	60,0	64,1	0,42	0,52	0,63	0,894	
0,37	0,5	90S	5,05	3,7	2,0	2,3	0,0055	30	66	19,0	44,0	700	61,0	66,0	69,3	0,41	0,53	0,62	1,24	
0,55	0,75	90L	7,56	3,8	1,9	2,2	0,0066	29	64	23,0	44,0	695	65,0	70,0	73,0	0,44	0,57	0,67	1,62	
0,75	1	100L	10,1	4,3	1,8	2,1	0,0127	30	66	30,5	50,0	710	72,5	75,5	75,5	0,41	0,53	0,62	2,31	
1,1	1,5	100L	14,8	4,6	1,9	2,0	0,0143	30	66	33,0	50,0	710	73,0	76,0	77,7	0,41	0,53	0,62	3,30	
1,5	2	112M	20,3	5,0	2,5	2,8	0,0238	28	62	43,0	46,0	705	79,0	79,5	79,9	0,45	0,59	0,68	3,98	
2,2	3	132S	29,6	6,2	2,3	2,5	0,0690	27	59	69,0	48,0	710	81,5	82,0	82,1	0,51	0,65	0,72	5,37	
3	4	132M	40,1	6,5	2,4	2,6	0,0838	21	46	75,0	48,0	715	82,5	83,5	83,5	0,51	0,64	0,72	7,20	
4	5,5	160M	52,4	5,0	2,1	2,3	0,1229	34	75	114	51,0	730	85,0	86,0	86,0	0,47	0,61	0,68	9,87	
5,5	7,5	160M	72,5	5,0	2,1	2,3	0,1492	28	62	123	51,0	725	86,0	87,3	87,3	0,52	0,65	0,73	12,5	
7,5	10	160L	98,0	5,5	2,2	2,5	0,2199	22	48	145	51,0	731	86,5	88,0	88,4	0,46	0,59	0,68	18,0	
9,2	12,5	180M	121	6,0	2,0	2,6	0,2575	15	33	173	52,0	725	89,0	89,3	89,6	0,63	0,75	0,80	18,5	
11	15	180L	144	6,5	2,3	2,7	0,2846	12	26	185	52,0	730	88,7	89,2	89,7	0,55	0,68	0,76	23,3	
15	20	200L	196	4,9	1,8	2,0	0,4571	33	73	220	56,0	730	89,8	89,9	90,0	0,56	0,68	0,74	32,5	
18,5	25	225S/M	241	6,5	1,7	2,5	0,8219	28	62	377	56,0	735	89,8	90,3	90,3	0,63	0,75	0,81	36,5	
22	30	225S/M	286	7,0	2,1	2,7	0,9574	20	44	402	56,0	735	90,3	90,8	90,8	0,61	0,73	0,79	44,3	
30	40	250S/M	393	7,4	1,9	2,8	1,43	18	40	490	56,0	730	91,0	91,5	91,5	0,66	0,77	0,83	57,0	
37	50	280S/M	478	5,5	1,8	2,3	2,82	32	70	673	59,0	740	91,5							

W22 Mechanical Data

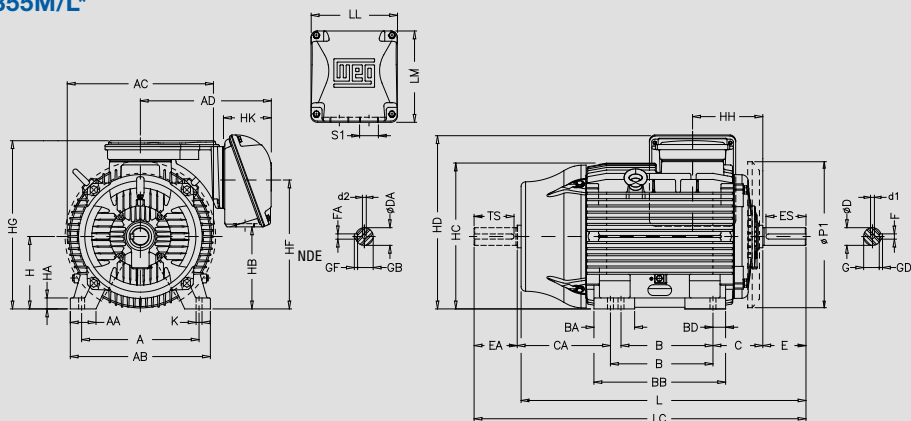
Frames 63 to 132M/L



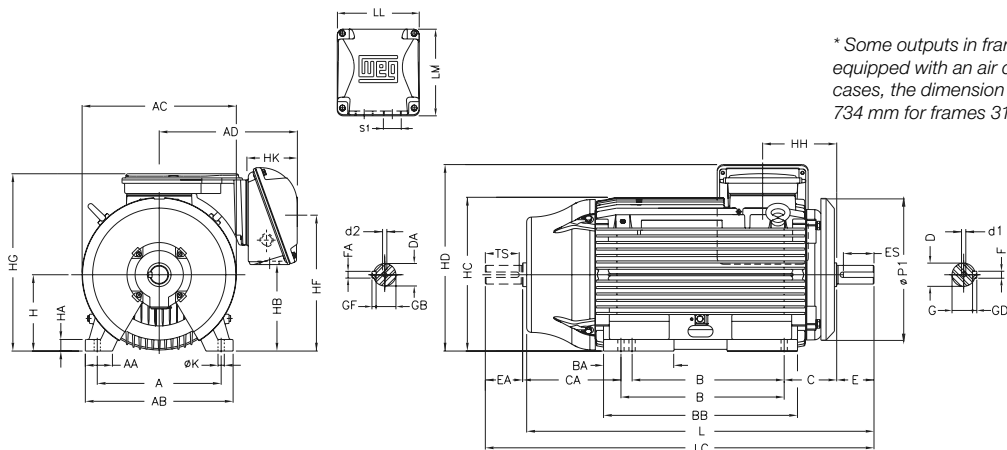
Frames 160M to 200L



Frames 225S/M to 355M/L*



Frame 355A/B*



* Some outputs in frame sizes 315 and 355 are equipped with an air deflector at the DE, in these cases, the dimension P1 will be 700 mm and 734 mm for frames 315 and 355 respectively.

Frame	A	AA	AB	AC	AD	B	BA	BB	BD	C	CA	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	5																							
L80											120	19j6																																		
90S																																														
L90S ⁽³⁾	140	37	164	179	149	125		131		56	135	24j6	50	36	8	20	7	16j6	40	28	5	13	5																							
90L																																														
L90L ⁽³⁾																																														
100L	160	40	188	206	159	140		173		63	118	28j6	60	45	24	22j6	50	36	6	18,5	6																									
L100L ⁽³⁾											162																																			
112M											128											70	128	24j6																						
132S	216	45,5	248	272	220	178	187	89	150	38k6	80	63	10	33	8	28j6	60	45	8	24	7																									
132M																						225																								
132M/L																						250																								
160M	254	44	292	329	266	210	63	254	108	174	42k6	110	80	12	37	8	42k6	110	80	12	37	8																								
160L						254		298																																						
180M						241		294																																						
180L	279	57	329	360	281	279	-	332	121	200	48k6	110	80	14	42,5	9	48k6	110	80	14	42,5	9																								
200L						305		82															370	133	222																					
225S/M ⁽¹⁾						356		80															436	455	410	286/311	124	412	41	149	319/294	55m6	100	16	49	10	55m6	100	16	49	10					
225S/M	406	100	506	486	311/349	146	467	59	168	354/316	60m6	140	125	18	53	11	60m6	140	125	18	53	11																								
250S/M ⁽¹⁾																							457	120		630	657	525	406/457	184	626											70	190	385/334	65m6	170
250S/M																									508							140	750	736	589	508	219	752	81	502	443/494					
280S/M ⁽¹⁾	610	140	750	736	609	560/630	230	760	65	483/413	528/438	100m6	210	200	28	90	16	80m6	170	160	22	71																								
280S/M																							508	140		750	736	609	560/630	230	760											65	483/413	528/438	100m6	210
315S/M ⁽¹⁾																									508							140	750	736	609	560/630	230	760	65	483/413	528/438					
315S/M	508	140	750	736	609	560/630	230	760	65	483/413	528/438	100m6	210	200	28	90	16	80m6	170	160	22	71																								
315S/M ⁽¹⁾⁽²⁾																							508	140		750	736	609	560/630	230	760											65	483/413	528/438	100m6	210
315S/M ⁽²⁾																									508							140	750	736	609	560/630	230	760	65	483/413	528/438					
315L ⁽¹⁾	508	140	750	736	609	560/630	230	760	65	483/413	528/438	100m6	210	200	28	90	16	80m6	170	160	22	71																								
315L																							508	140		750	736	609	560/630	230	760											65	483/413	528/438	100m6	210
355M/L ⁽¹⁾																									508							140	750	736	609	560/630	230	760	65	483/413	528/438					
355M/L	508	140	750	736	609	560/630	230	760	65	483/413	528/438	100m6	210	200	28	90	16	80m6	170	160	22	71																								
355A/B ⁽¹⁾																							508	140		750	736	609	560/630	230	760											65	483/413	528/438	100m6	210
355A/B																									508							140	750	736	609	560/630	230	760	65	483/413	528/438					

Frame	H	HA	HB	HC	HD	HF	HG	HH	HK	K	L	LC	LL	LM	S1	D1	D2	Bearings				
																		D.E	N.D.E.			
63	63	7	25,5	130	-	68,5	-	80	59	7	216	241	108	98	M20x1,5	EM4	EM3	6201 ZZ	6201 ZZ			
71	71		33	145		76		90			250	276				DM5	EM4	6202 ZZ	6202 ZZ			
80	80		8	43,5		163		87			100	277				313	DM6	DM5	6204 ZZ	6203 ZZ		
L80 ⁽³⁾		301										340										
90S		305										350										
L90S ⁽³⁾	90	9	47	182	90	118,5		334		381	DM8	DM6				6205 ZZ	6204 ZZ					
90L								329		375												
L90L ⁽³⁾								360		406												
100L	100	10	65	203	244	106,4		133	376	431	DM10	DM8	6206 ZZ	6205 ZZ								
L100L ⁽³⁾									414	475												
112M									394	448												
132S	112	16	54,5	226	280	112		140	133	12	452	519	140	133	M25x1,5	DM12	DM10	6308 ZZ	6207 ZZ			
132M	132		178	190,5	515	582	489				557	2xM25x1,5										
132M/L	132		190,5	515	582	489	557				2xM25x1,5											
160M	160	17	79	331	380	168	213	101	14,5	18,5	598	712	198,5	190	2xM32x1,5	DM16	DM16	6309 ZZ-C3	6209 ZZ-C3			
160L	160	235	260,5	702	820	642					756	856								974	886	1034
180M	180	241,5	260,5	702	820	664					782	856								974	886	1034
180L	180	19	92	366	413	180	260,5	702	820	24	965	1113	269	285	2xM40x1,5	DM20	DM20	6312 ZZ-C3	6212 ZZ-C3			
200L	200	30	119	407	464	218	285,5	119,5	767		880	230								220	2xM32x1,5	
225S/M ⁽¹⁾	225	34	254	453	541	421	534	212	856		974	269								285	2xM40x1,5	DM20
225S/M	225	34	254	453	541	421	534	212	856	974												
250S/M ⁽¹⁾	250	43	297	493	583	463	577	214	965	1113												
250S/M	250	43	297	493	583	463	577	214	965	1113	314	312	2xM50x1,5	DM20	DM20	6314 C3	6314 C3					
280S/M ⁽¹⁾	280	42	386	580	700	572	686	266	1071	1223								1071	1223			
280S/M	280	42	386	580	700	572	686	266	1101	1253								1101	1253			
315S/M ⁽¹⁾	315	48	386	644	768	592	751	264	176	28	1244	1392	379	382	2xM63x1,5	DM20	DM20	6314 C3	6314 C3			
315S/M											1274	1426								1274	1426	
315S/M ⁽¹⁾⁽²⁾											1244	1392								1274	1426	
315S/M ⁽²⁾			1274	1426	1355	1506	1355	1506														
315L ⁽¹⁾			1385	1536	1442	1607	1442	1607														
315L	355	50	461	723	898	700	885	339	220	1482	1677	404	436	2xM80x2	DM24	DM24	6319 C3	6319 C3				
355M/L ⁽¹⁾										1637	1802								1637	1802		
355M/L										1677	1872								1677	1872		
355A/B ⁽¹⁾			1637	1802	1677	1872																
355A/B			1677	1872	1677	1872																

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The values shown are subject to change without prior notice.
The information contained is reference values.