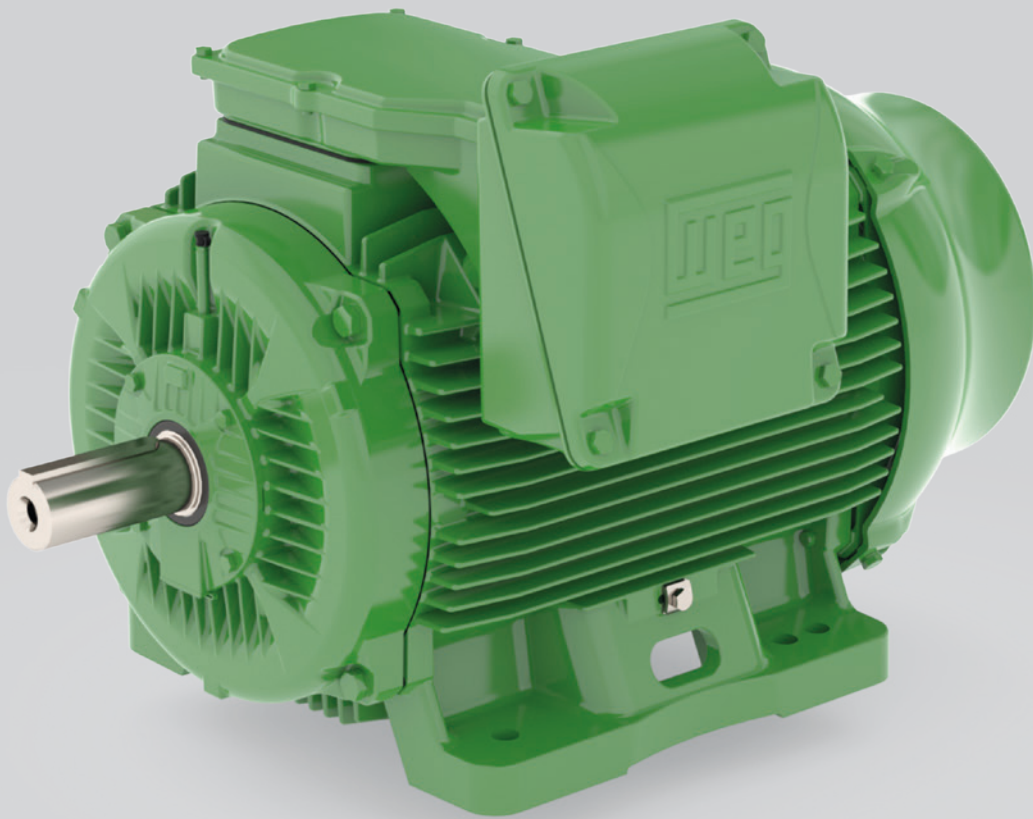


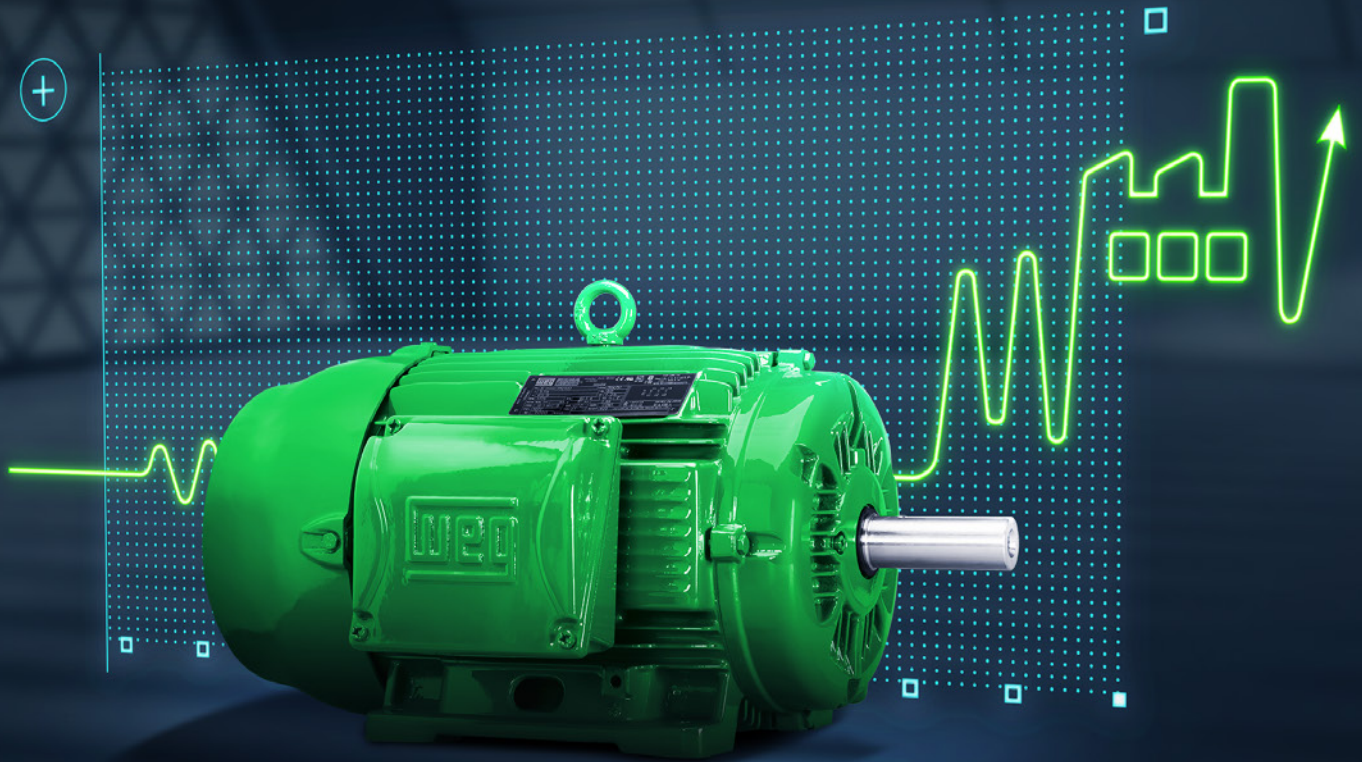
W22 IE4 Super Premium

Three-phase Induction Motor



Motors | Automation | Energy | Transmission & Distribution | Coatings

EFFICIENCY THAT TURNS INTO GREAT SAVINGS



Meet our W22 IE4 Super Premium motor. Increased efficiency, quality and savings for your industry.

WEG's W22 line of electric motors ensures energy reduction, offers an excellent cost-benefit with increased production. The **W22 IE4 Super Premium** motor, with powers ranging from 3 to 355kW and 2 to 6 poles, exceeds the standard performance levels. WEG has the most complete electric motor portfolio in the market, from the lowest to the highest efficiency levels, and providing service that makes all the difference in your business.



Transforming energy into solutions. www.weg.net

W22 IE4 Super Premium

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.

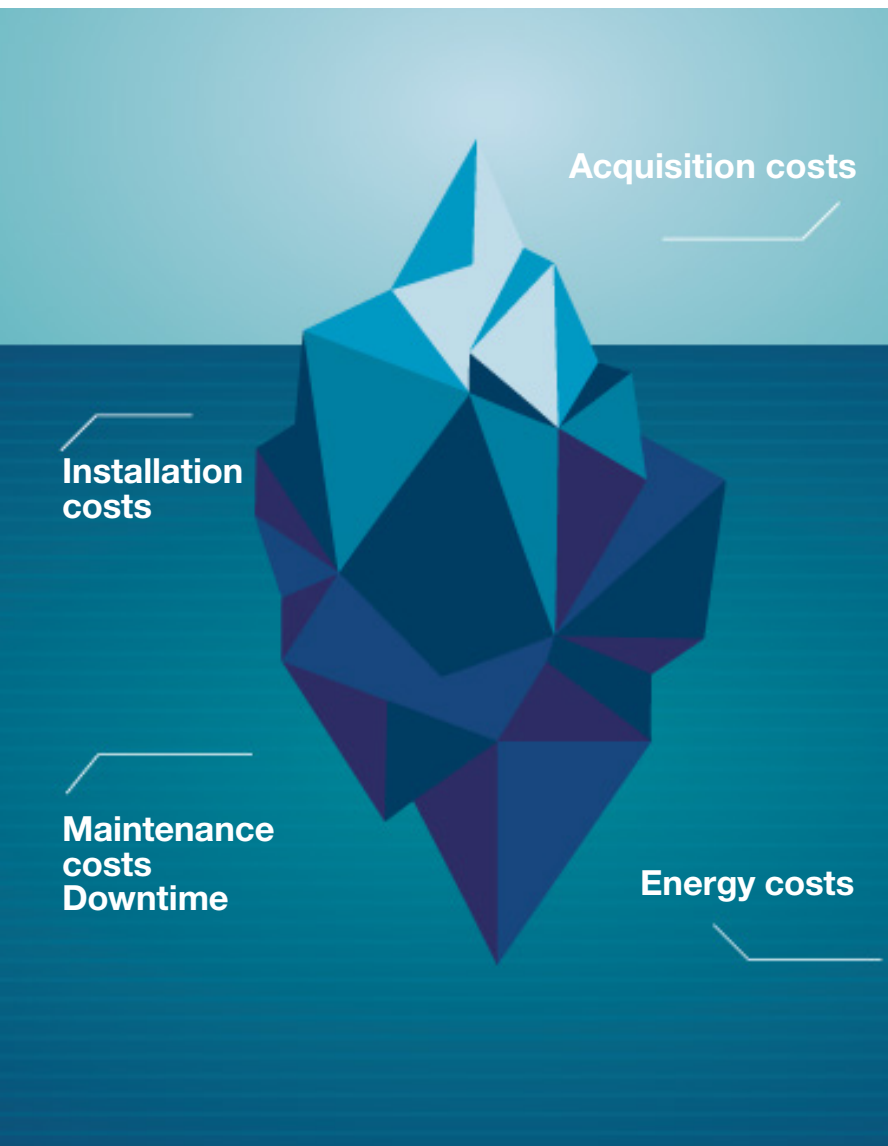


With this situation in mind WEG presents its W22 IE4 Super Premium efficiency motor line, meeting the IE4 Efficiency Levels defined in IEC 60034-30-1.

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

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, compressed 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 IE4 Super 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.

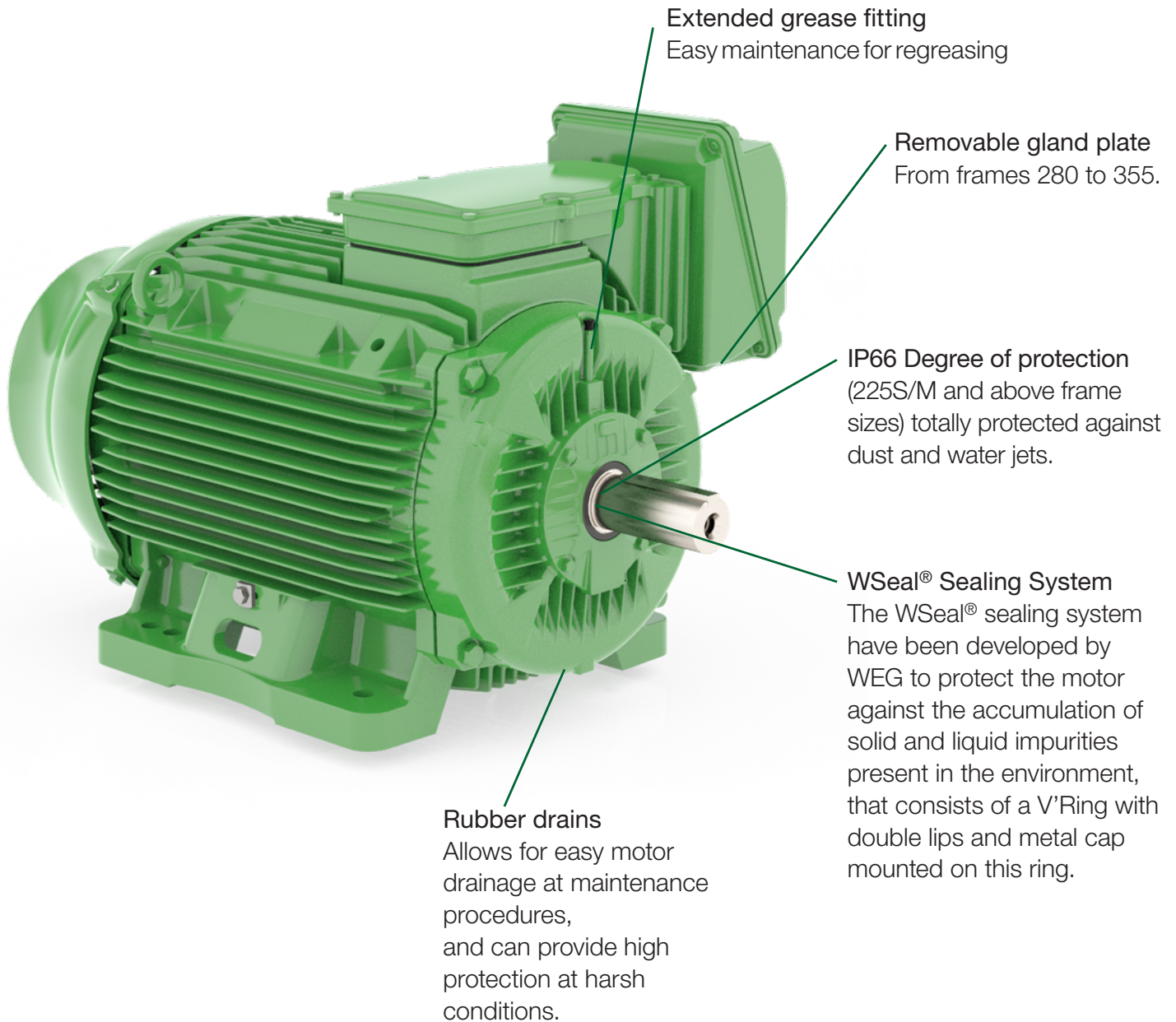
Total Cost of Ownership

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!

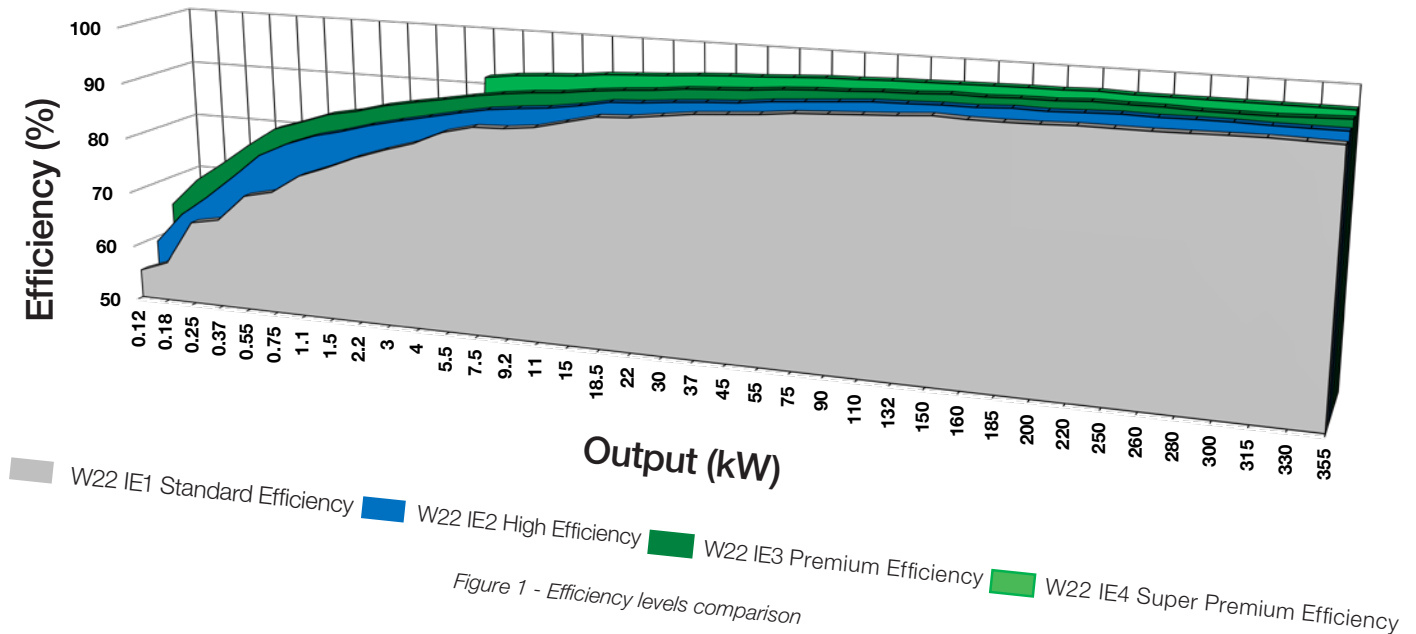
Typically applications do not run at full load all the time. Installing a VFD can help you save money by controlling the speed of your process and adjusting it to the specific load at any time. This is specifically true for variable torque applications like pumps and fans.

WEG's W22 IE4 Super Premium motors have a mechanical design, which offers:



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, IE3 and the IE4 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 Super 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 IE4 Super 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

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

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

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

W22 IE4 Super Premium Technical Data

The W22 IE4 Super Premium Efficiency motors are designed according to the DIN EN 50347 Standard, which means that you can replace an IE1, IE2 or IE3 motors with total reliability.

Basic features

Rated Output: 3 to 355 kW
 Frame sizes: 100L to 355A/B
 Number of poles: 2, 4 and 6
 Voltage: 400/690 V, 50 Hz or 525-550 V, 50 Hz

Output (kW)	II Poles		IV Poles		VI Poles	
	Frame Size	Efficiency at Full Load	Frame Size	Efficiency at Full Load	Frame Size	Efficiency at Full Load
3	100L	89,1	-	-	132S	88,6
4	112M	90,0	-	-	132M	89,5
5,5	132S	90,9	L132S	91,9	L132M/L	90,5
7,5	L132S	91,7	L132M/L	92,6	160M	91,3
9,2	132M/L	92,2	160M	93,0	160L	92,3
11	160M	92,8	160M	93,3	160L	92,3
15	160M	93,3	L160L	93,9	180L	92,9
18,5	160L	93,7	L180M	94,2	200L	93,4
22	180M	94,0	L180L	94,5	200L	93,7
30	200L	94,5	200L	94,9	225S/M	94,2
37	200L	94,8	225S/M	95,2	250S/M	94,5
45	225S/M	95,0	225S/M	95,4	280S/M	94,8
55	250S/M	95,5	250S/M	95,7	280S/M	95,1
75	280S/M	95,6	280S/M	96,0	315S/M	95,4
90	280S/M	95,8	280S/M	96,1	315S/M	95,6
110	315S/M	96,0	315S/M	96,3	315L	95,8
132	315S/M	96,2	315S/M	96,4	315L	96
150	315S/M	96,3	315S/M	96,5	315L	96,1
150	-	-	315L	96,5	-	-
160	315S/M	96,3	315S/M	96,6	315L	96,5
160	-	-	315L	96,6	-	-
185	315L	96,5	315L	96,7	355M/L	96,3
200	315L	96,5	315L	96,7	355M/L	96,3
200	355M/L	96,5	355M/L	96,7	-	-
220	355M/L	96,5	315L	96,7	-	-
220	315L	96,5	355M/L	96,9	355M/L	96,3
250	355M/L	96,5	315L	96,9	-	-
250	315L	96,5	355M/L	96,7	355A/B	96,5
260	355M/L	96,5	315L	96,9	-	-
260	315L	96,7	355M/L	96,7	355A/B	96,6
280	355M/L	96,5	355M/L	96,7	355A/B	96,6
280	315L	96,8	-	-	-	-
300	355M/L	96,5	355M/L	96,7	355A/B	96,6
315	355M/L	96,5	355M/L	96,7	355A/B	96,6
330	355A/B	96,5	355A/B	96,7	-	-
355	355A/B ¹⁾	96,5	355A/B	96,7	-	-

Notes:
 1) Class F (105K) temperature rise.

W22 IE4 Super 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 (kgm ²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	Rated speed (rpm)	% of full load						Full load current I _n (A)	
								Hot	Cold				Efficiency			Power Factor			400 V	525 V
													50	75	100	50	75	100		
II Pole - 3000 RPM - 50 Hz																				
3	4	100L	9,85	9,0	3,2	3,7	0,0064	18	40	34,0	67	2910	88,0	89,1	89,1	0,71	0,82	0,87	5,59	4,26
4	5,5	112M	13,2	8,0	2,8	3,5	0,0094	27	59	45,0	62	2905	89,5	90,0	90,0	0,70	0,81	0,86	7,46	5,68
5,5	7,5	132S	17,9	8,6	3	4	0,0252	27	59	69,0	63	2940	87,3	90,6	90,9	0,71	0,81	0,86	10,2	7,77
7,5	10	L132S	24,4	8,7	3,1	3,9	0,0285	16	35	73,0	63	2940	90,3	91,5	91,7	0,69	0,80	0,86	13,7	10,4
9,2	12,5	132M/L	30,0	8,7	3	3,6	0,0356	16	35	79,0	63	2935	91,0	91,9	92,2	0,72	0,82	0,87	16,6	12,6
11	15	160M	35,6	8,5	2,9	3,5	0,0588	14	31	120	67	2955	91,1	92,3	92,8	0,69	0,80	0,86	19,9	15,2
15	20	160M	48,5	8,2	2,9	3,5	0,0698	11	24	126	67	2955	92,1	93,0	93,3	0,70	0,81	0,86	27,0	20,6
18,5	25	160L	59,9	8,2	3,1	3,5	0,0841	10	22	144	67	2950	92,8	93,4	93,7	0,71	0,82	0,87	32,8	25,0
22	30	180M	71,0	8,5	3,4	3,7	0,1183	8	18	176	67	2960	92,8	93,6	94,0	0,69	0,79	0,84	40,2	30,6
30	40	200L	96,5	8,2	3,2	3,5	0,2119	16	35	265	72	2970	93,0	94,1	94,5	0,70	0,80	0,85	53,9	41,1
37	50	200L	119	8,1	3,1	3,4	0,2373	14	31	275	72	2970	93,6	94,5	94,8	0,72	0,81	0,85	66,3	50,5
45	60	225S/M	145	8,7	3,1	3,8	0,3641	17	37	425	74	2970	93,9	94,5	95,0	0,75	0,84	0,88	77,7	59,2
45	60	225S/M	145	8,7	3,1	3,8	0,3641	17	37	425	74	2970	93,9	94,5	95,0	0,75	0,84	0,88	77,7	59,2
55	75	250S/M	177	8,2	3	3,1	0,6068	28	62	520	74	2970	94,6	95,3	95,5	0,81	0,88	0,90	92,4	70,4
75	100	280S/M	241	7,9	2,2	2,8	1,47	30	66	800	77	2976	94,7	95,4	95,6	0,80	0,87	0,89	127	96,8
90	125	280S/M	289	8,8	2,6	2,9	1,64	30	66	890	77	2980	95,1	95,8	95,8	0,79	0,86	0,89	152	116
110	150	315S/M	353	7,8	2,3	3	2,32	30	66	992	77	2980	94,8	95,7	96,0	0,76	0,84	0,87	190	145
132	175	315S/M	423	8,7	2,7	2,8	2,77	30	66	1095	77	2983	95,4	96,2	96,2	0,77	0,85	0,88	225	171
150	200	315S/M	481	7,6	2,4	2,9	3,20	30	66	1197	77	2980	95,9	96,3	96,3	0,82	0,88	0,90	250	190
160	220	315S/M	514	7,6	2,4	2,7	3,20	30	66	1197	77	2975	95,7	96,2	96,3	0,82	0,88	0,90	266	203
185	250	315L	592	8,5	3	2,8	3,50	29	64	1315	77	2984	95,3	96,1	96,5	0,77	0,85	0,89	311	237
200	270	315L	641	8,2	2,7	2,9	3,72	32	70	1345	77	2982	95,5	96,1	96,5	0,80	0,87	0,90	332	253
220	300	315L	705	8,5	2,6	2,7	3,95	25	55	1390	77	2980	95,1	96,0	96,5	0,72	0,82	0,87	378	288
250	340	315L	801	9,1	2,9	2,6	4,15	20	44	1434	77	2983	95,7	96,3	96,5	0,80	0,87	0,90	415	316
260	350	315L	833	8,5	2,7	2,6	4,15	20	44	1434	77	2982	94,9	95,9	96,7	0,65	0,77	0,83	468	357
280	380	355M/L	896	8,5	2,5	2,9	5,36	35	77	1664	80	2986	95,6	96,2	96,5	0,79	0,86	0,89	471	359
300	400	355M/L	960	8,6	2,3	2,6	5,68	30	66	1751	80	2986	95,8	96,3	96,5	0,82	0,88	0,90	499	380
315	430	355M/L	1008	8,5	3,2	2,7	6,01	23	51	1838	80	2986	95,0	95,9	96,5	0,68	0,78	0,84	561	427
330	450	355A/B	1056	8,8	2,7	2,6	6,33	24	53	2000	82	2985	95,5	96,0	96,5	0,82	0,88	0,90	548	418
355	480	355A/B*	1137	9,0	2,6	2,6	6,76	20	44	2043	82	2983	95,5	96,0	96,5	0,82	0,88	0,90	590	450
IV Pole - 1500 RPM - 50 Hz																				
5,5	7,5	L132S	35,6	10,0	2,9	3,5	0,0640	16	35	78,0	56	1475	90,8	91,8	91,9	0,63	0,75	0,82	10,5	8,00
7,5	10	L132M/L	48,7	10,0	3,3	4,2	0,0791	14	31	84,0	56	1473	91,0	92,0	92,6	0,62	0,74	0,81	14,4	11,0
9,2	12,5	160M	59,4	8,6	3	3,3	0,1398	16	35	115	61	1480	91,9	92,9	93,0	0,61	0,74	0,81	17,6	13,4
11	15	160M	71,0	8,2	3	3,5	0,1537	26	57	125	61	1480	92,0	93,0	93,3	0,61	0,73	0,81	21,0	16,0
15	20	L160L	97,0	7,2	3	3,2	0,1813	22	48	150	61	1478	92,7	93,4	93,9	0,63	0,75	0,81	28,5	21,7
18,5	25	L180M	120	8,7	3,2	3,8	0,2291	16	35	185	61	1479	93,6	94,2	94,2	0,64	0,76	0,83	34,2	26,1
22	30	L180L	142	9,5	3,4	4	0,2594	14	31	200	61	1483	93,7	94,3	94,5	0,63	0,75	0,82	41,0	31,2
30	40	200L	193	8,6	3,2	3,3	0,3979	18	40	284	63	1485	93,9	94,7	94,9	0,60	0,73	0,81	56,3	42,9
37	50	225S/M	238	8,6	3,1	3,5	0,7346	21	46	430	63	1485	94,6	95,1	95,2	0,67	0,78	0,84	66,8	50,9
45	60	225S/M	290	9,0	3,5	3,9	0,7346	15	33	440	63	1485	94,2	95,0	95,4	0,62	0,74	0,81	84,1	64,1
55	75	250S/M	353	9,0	3,5	3,7	1,21	17	37	531	64	1487	94,9	95,4	95,7	0,66	0,78	0,83	100	76,2
75	100	280S/M	482	8,5	2,9	2,9	2,78	30	66	830	69	1488	95,5	96,0	96,0	0,68	0,78	0,84	134	102
90	125	280S/M	578	7,9	2,6	2,9	3,40	30	66	895	69	1488	95,9	96,0	96,1	0,73	0,82	0,86	157	120
110	150	315S/M	705	8,1	3	2,9	4,42	30	66	1150	71	1491	95,8	96,3	96,3	0,73	0,82	0,86	192	146
132	175	315S/M	846	7,5	2,8	2,7	5,29	30	66	1332	71	1490	96,1	96,4	96,4	0,73	0,82	0,86	230	175
150	200	315S/M	961	7,9	3	3	4,44	30	66	1140	71	1491	95,8	96,5	96,5	0,74	0,83	0,86	261	199
160	220	315S/M	1026	7,6	2,8	2,8	4,44	40	88	1145	71	1490	95,8	96,2	96,6	0,74	0,83	0,86	278	212
185	250	315L	1185	7,7	3,1	3,1	6,17	35	77	1480	72	1492	96,0	96,5	96,7	0,70	0,80	0,85	325	248
200	270	315L	1283	7,9	3	2,7	6,51	30	66	1527	72	1490	96,3	96,5	96,7	0,74	0,83	0,86	347	264
220	300	355M/L	1411	7,9	2,6	2,8	8,95	36	79	1670	74	1490	95,9	96,6	96,9	0,72	0,81	0,85	386	294
250	340	355M/L	1600	8,2	3	3	10,0	33	73	1730	74	1493	95,7	96,5	96,7	0,65	0,76	0,83	450	343
260	350	355M/L	1664	8,2	2,7	2,8	10,0	33	73	1730	74	1493	95,7	96,5	96,7	0,67	0,78	0,83	468	357
280	380	355M/L	1793	7,9	2,7	2,7	10,5	28	62	1772	74	1492	96,3	96,5	96,7	0,72	0,81	0,85	492	375
300	400	355M/L	1923	7,8	2,4	2,6	11,1	24	53	1825	74	1491	96,4	96,5	96,7	0,73	0,82	0,85	527	402
315	430	355M/L	2016	7,8	2,9	2,9	11,6	27	59	1878	74	1493	96,1	96,6	96,7	0,66	0,77	0,83	566	431
330	450	355A/B	2113	7,3	2,5	2,4	12,5	28	62	2062	76	1492	96,4	96,7	96,7	0,70	0,80	0,84	586	446
355	480	355A/B	2272	7,9	2,9	3,3	13,5	23	51	2089	76	1493	96,0	96,6	96,7	0,64	0,76	0,82	646	492

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)	Rated speed (rpm)	% of full load						Full load current In (A)	
kW	HP							Efficiency					Power Factor			400 V	525 V			
								50	75				100	50	75			100		
VI Pole - 1000 RPM - 50 Hz																				
3	4	132S	29,4	6,3	2,3	2,6	0,0568	48	106	61	53	975	88	89,3	88,6	0,53	0,66	0,73	6,69	5,1
4	5,5	132M	39,4	6,6	2,5	3,1	0,0643	35	77	68	53	970	88,5	89,6	89,5	0,53	0,66	0,73	8,84	6,74
5,5	7,5	L132M/L	53,9	7,3	2,5	3	0,0833	27	59	84	53	975	88,7	90,1	90,5	0,5	0,63	0,71	12,4	9,45
7,5	10	160M	73,1	6,8	2,6	2,9	0,1931	21	46	130	57	980	90,6	91,5	91,3	0,6	0,73	0,8	14,8	11,3
9,2	12,5	160L	89,7	7,7	3	3,6	0,237	23	51	148	57	980	91,6	92	92,3	0,58	0,71	0,78	18,4	14
11	15	160L	107	7,3	2,9	3,2	0,237	14	31	150	57	980	90,3	91,5	92,3	0,55	0,68	0,77	22,3	17
15	20	180L	146	8,2	2,8	3,4	0,3765	13	29	210	56	980	92	92,6	92,9	0,63	0,75	0,82	28,4	21,6
18,5	25	200L	180	6,6	2,4	2,7	0,4896	23	51	235	60	980	92,7	93,2	93,4	0,63	0,75	0,81	35,3	26,9
22	30	200L	213	7	2,6	2,9	0,5246	18	40	250	60	985	92,4	93,2	93,7	0,59	0,72	0,79	42,9	32,7
30	40	225S/M	290	7,4	2,7	2,8	1,02	27	59	430	63	988	93,7	94,1	94,2	0,69	0,79	0,84	54,7	41,7
37	50	250S/M	358	7,5	2,7	2,8	1,65	30	66	520	64	988	94,3	94,7	94,5	0,7	0,81	0,85	66,5	50,7
45	60	280S/M	434	7	2,3	2,8	3,25	30	66	723	65	990	94,4	95	94,8	0,67	0,75	0,8	85,6	65,2
55	75	280S/M	531	7,2	2,6	3	3,92	30	66	740	65	990	94,6	95,1	95,1	0,64	0,74	0,8	104	79,2
75	100	315S/M	722	7,3	2,2	2,5	7,25	30	66	1106	67	992	94,9	95,4	95,4	0,67	0,77	0,82	138	105
90	125	315S/M	868	6,7	2,1	2,4	7,96	30	66	1180	67	991	95,2	95,6	95,6	0,69	0,79	0,83	164	125
110	150	315L	1061	6,9	2,1	2,4	9,04	30	66	1320	68	991	95	95,8	95,8	0,67	0,77	0,82	202	154
132	175	315L	1270	7,2	2,4	2,6	9,95	30	66	1384	68	993	95	95,9	96	0,66	0,77	0,81	245	187
150	200	315L	1445	7,2	2,7	2,6	11	30	66	1448	68	992	95,5	96,1	96,1	0,67	0,78	0,83	271	206
160	220	315L	1544	7,2	2,7	2,6	11	30	66	1448	68	990	95,9	96,3	96,5	0,67	0,78	0,83	288	219
185	250	355M/L	1778	6,6	2,1	2,4	13,2	30	66	1854	73	994	95,6	96,2	96,3	0,64	0,75	0,81	342	261
200	270	355M/L	1921	6,6	2,2	2,3	14,1	30	66	1912	73	995	95,3	96	96,3	0,64	0,74	0,79	379	289
220	300	355M/L	2115	6,5	2	2,4	15	30	66	1970	73	994	95,6	96,2	96,3	0,65	0,76	0,81	407	310
250	340	355A/B	2403	6,4	2,2	2,4	17,1	30	66	2246	73	994	95,5	96,2	96,5	0,64	0,75	0,8	467	356
260	350	355A/B	2509	6,5	2,2	2,3	17,1	42	92	2246	73	990	96,1	96,5	96,6	0,66	0,76	0,82	474	361
280	380	355A/B	2702	6,6	2,3	2,3	18	35	77	2300	73	990	95,8	96,4	96,6	0,64	0,75	0,81	517	394
300	400	355A/B	2895	6,5	2,2	2,3	18,9	35	77	2346	73	990	95,9	96,4	96,6	0,65	0,76	0,81	553	421
315	430	355A/B	3031	6,7	2,2	2,4	18,9	31	68	2346	73	993	95,7	96,3	96,6	0,63	0,74	0,8	588	448
VIII Pole - 750 RPM - 50 Hz																				
15	20	200L	195	4,9	1,8	2,3	0,4923	38	84	255	56	735	90,6	91,2	91,2	0,54	0,67	0,74	32,1	24,5

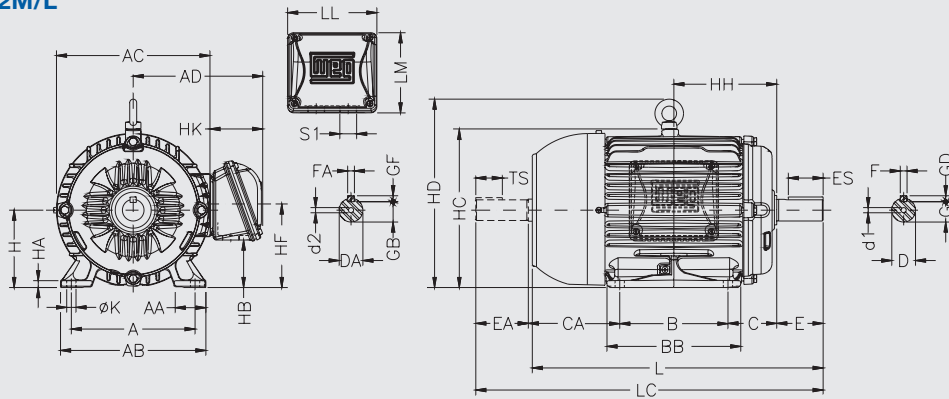
Notes:

- (1) Efficiency values are given according to IEC 60034-2-1. They are calculated according to indirect method, with stray load losses determined by measurement.
- (2) Motor with class F (105K) temperature rise.

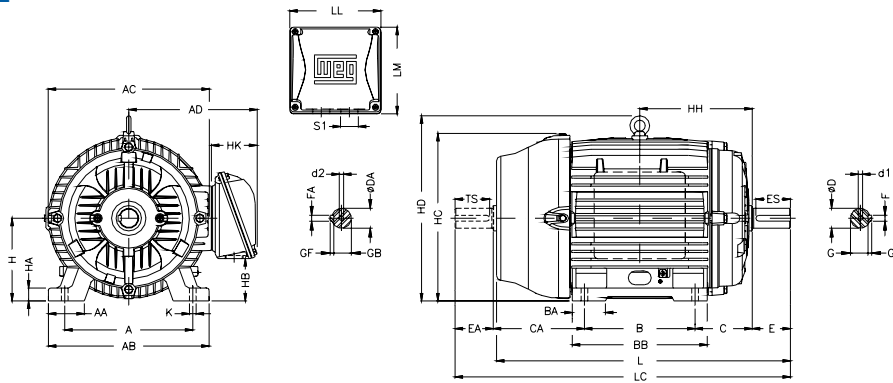


W22 Mechanical Data

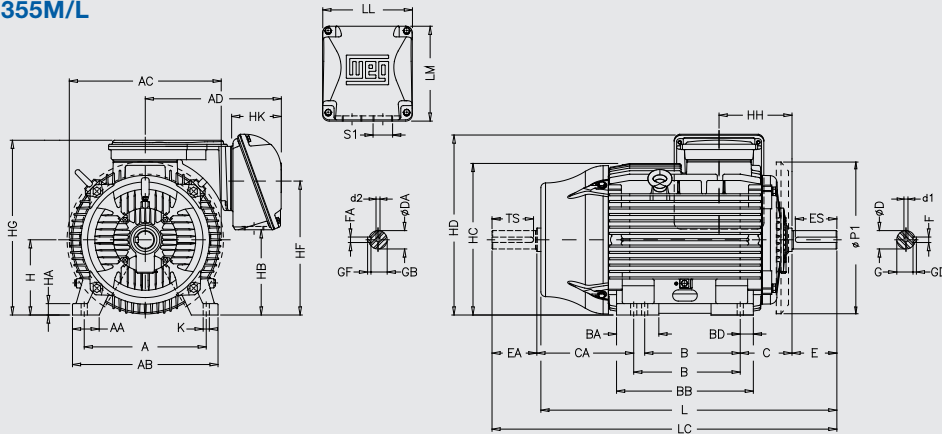
Frames 100L to L132M/L



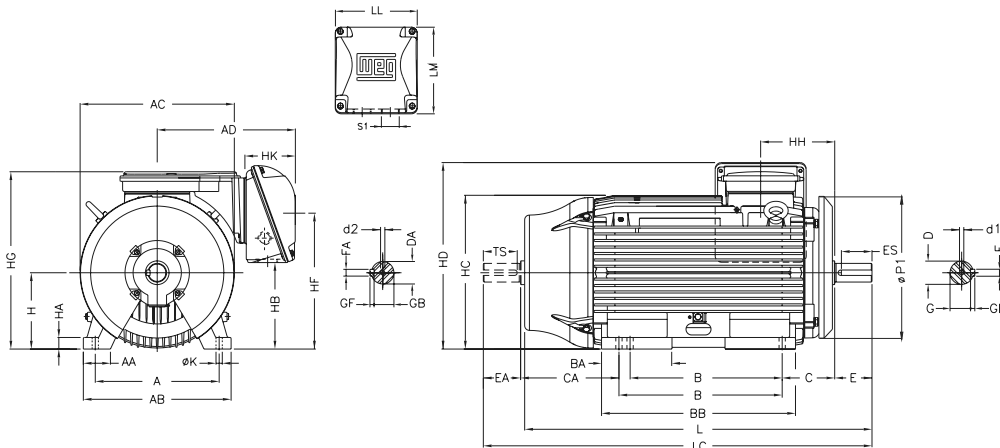
Frames 160M to 200L



Frames 225S/M to 355M/L



Frame 355A/B



Frame	A	AA	AB	AC	AD	B	BA	BB	BD	C	CA	D	E	ES	F	G	GD	DA	EA	TS	FA	GB	GF										
100L	160	40	188	206	159	140		173		63	118	28j6	60	45	8	8	24	7	22j6	50	6	18,5	6										
112M	190	40,5	220	226	192			177		70	128								24j6		20												
132S	216	45,5	248	272	220			178		225	23,5								89		150	38k6	80	63	10	10	33	8	28j6	60	8	24	7
L132S (2)																																	
132M						250																											
132M/L	254	44	292	329	266	210	63	254		108	174	42k6						8	42k6	60	12	37	8										
L160L (2)																								254									
160M																								298									
160L	279	57	329	360	281	241		294		121	200	48k6	110	80	14	14	42,5	9	48k6	110	14	42,5	9										
L180M (2)																								241									
180L																								332									
L180L (2)																								279									
200L	318	82	385	402	319	305	82	370		133	222	55m6																					
225S/M (1)	356	80	436	455	410	286/311	124	412	41	149	319/294	60m6	140	125	16	16	49	10	55m6	140	18	49	10										
225S/M																								60m6									
250S/M (1)	406	100	506	486	311/349	146	467	59	168	354/316	70m6	170	160	22	22	71	14	65m6	140	18	53	11	60m6										
250S/M																								60m6									
280S/M (1)	457		557	599	445	368/419	151	517	49	190	385/334	65m6	170	160	22	22	71	14	65m6	140	18	58	11	60m6									
280S/M																									60m6								
315L (1)	508	120	630	657	525	406/457	184	626	70	216	443/494	65m6	140	125	18	18	58	11	60m6	140	18	53	11	60m6									
315L																									65m6								
315S/M (1)																									70m6								
315S/M																									90m6								
355M/L (1)	610	140	750	736	609	560/630	230	760	65	254	483/413	90m6	170	160	25	25	81	14	60m6	140	18	53	11	60m6									
355M/L																									100m6								
355A/B (1)																									90m6								
355A/B																									100m6								

Frame	H	HA	HB	HC	HD	HF	HG	HH	HK	K	L	LC	LL	LM	S1	D1	D2	Bearings					
																		D.E	N.D.E.				
100L	100	10	65	203	244	106,4		133	59	12	376	431	108	98	M20x1,5	DM10	DM8	6206 ZZ	6205 ZZ				
112M	112	10	54,5	226	280	112		140	80		12	394	448					M25x1,5			6207 ZZ	6206 ZZ	
132S	132	16	75	274	319	132			159		80	140	452	519	140	133	2xM25x1,5	DM12	DM10	6308 ZZ	6207 ZZ		
L132S (2)																						476	544
132M																						489	557
132M/L																						515	582
L132M/L (2)	190,5	538,5	607																				
160M	160	17	79	331	380	168			213		101	14,5	598	712	198,5	190	2xM32x1,5	DM16	DM16	6309 ZZ-C3	6209 ZZ-C3		
160L																						642	756
L160L (2)																						676	790
180M																						664	782
L180M (2)	180	19	92	366	413	180		241,5					706	824					6311 ZZ-C3	6211 ZZ-C3			
180L	200	30	119	407	464	218		260,5	101	14,5	702	820	198,5	190	2xM32x1,5	DM16	DM16	6312 ZZ-C3	6212 ZZ-C3				
L180L (2)																				744	862		
200L																				767	880		
225S/M (1)																				856	974		
225S/M	225	34	255	453	541	421	534	212	153	18,5	886	1034											
250S/M (1)	250	43	297	493	583	463	577	214	153	24	965	1113	269	285	2xM40x1,5	DM20	DM20	6314 C3	6314 C3				
250S/M																				886	1034		
280S/M (1)	280	42	385	580	698	571	686	266	152	24	1071	1223	314	313	2xM50x1,5	DM20	DM20	6314 C3	6314 C3				
280S/M																				1101	1253		
315L (1)																				1244	1392		
315L																				1274	1426		
315S/M (1)	315	48	386	644	768	592	751	264	182,5	28	1244	1392	379	382	2xM63x1,5	DM20	DM20	6314 C3	6314 C3				
315S/M																				1274	1426		
355M/L (1)																				1442	1607		
355M/L																				1482	1677		
355A/B (1)	355	50	461	723	898	700	885	339	220	28	1637	1802	404	436	2xM80x2	DM24	DM24	6319 C3	6316 C3				
355A/B																				1677	1872		

Notes:

(1) Dimension applicable to 2-pole motors

(2) For IEC frames, the letter "L" means being in accordance with IE4 efficiency levels. This difference occurs due to the increase of the total length of the motor.


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Cod: 50103242 | Rev: 02 | Date (m/a): 01/2022

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