

Motors

Automation

Energy

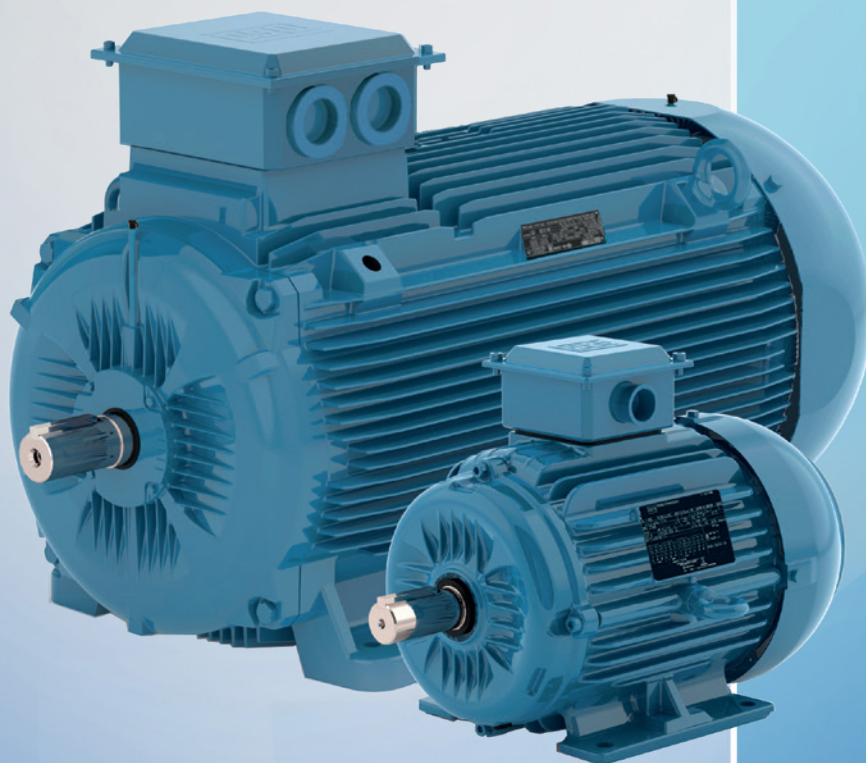
Transmission &

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WIN

Three-phase Electric Motor
Technical Catalog Indian Market



Driving efficiency and sustainability



WIN FROM INDIA FOR WINNERS

Motors

Automation

Energy

Transmission &

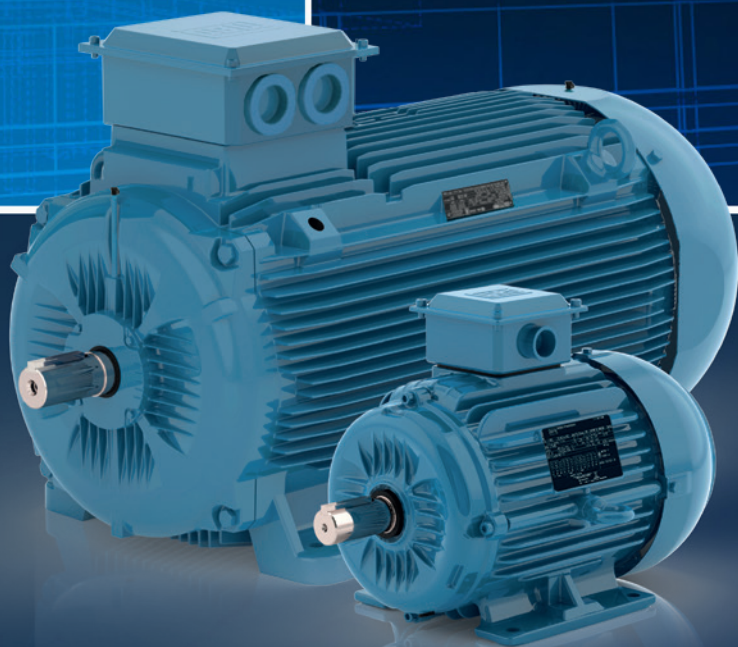
Distribution

Coatings

WIN

When we add technological expertise to manufacturing excellence and speed, the result is a reliable and highly efficient solution for a great variety of industrial segments.

Thinking about every detail, WEG releases a line of low voltage motors that carry the technology that the world already knows in a product with standard electrical design for operation with VFD, wide power range and exclusive BIS certification for the Indian market.



Driving efficiency and sustainability

www.weg.net



WIN

Standard Features

- Efficiency Level: High Efficiency (IE2) and Premium Efficiency (IE3)
- Cooling Method: TEFC (Totally enclosed fan cooled) - IC411
- Rated Output: 0.18 to 355 kW
- Number of Poles: 2, 4 and 6
- Frame Sizes: 71 up to 355A/B
- Frequency: 50 Hz ($\pm 5\%$)
- Voltage: 240/415 V ($\pm 10\%$) 6 cables (up to 100L)
415 V ($\pm 10\%$) 6 cables (112M and above)
- Combined variation in frequency and voltage (sum of absolute values): 10%
- Service Factor: 1.00
- Ambient Temperature: -20 °C up to 50 °C, at 1000 m.a.s.l.
- Class F insulation (Class B temperature rise)
- Degree of Protection: IP55
- Mounting: B3T
- Vibration Level: Grade A
- Continuous Duty: S1
- Paint Shade: Blue RAL 5009 (IE2)
Green RAL 6002 (IE3)
- Paint Type: 203A
- Shaft Seal: V'Ring seal for frames 71 to 355A/B
- Aluminum nameplate
- Terminal box material: Steel sheet
- Fan Cover: Steel Sheet (for frames 71 to 132M/L
and 280S/M to 355A/B)
Polymeric for frames 160M to W280S/M
- Shielded bearing for frames sizes up to 200
- Grease nipple for frames 225S/M to 355A/B
- Metric threaded cable entries
- WISE® (WEG Insulation System Evolution)⁽¹⁾
- Insulated NDE endshield for frames 315S/M to 355A/B

Notes:

(1) Suitable for VFD use up to 575V⁽²⁾.

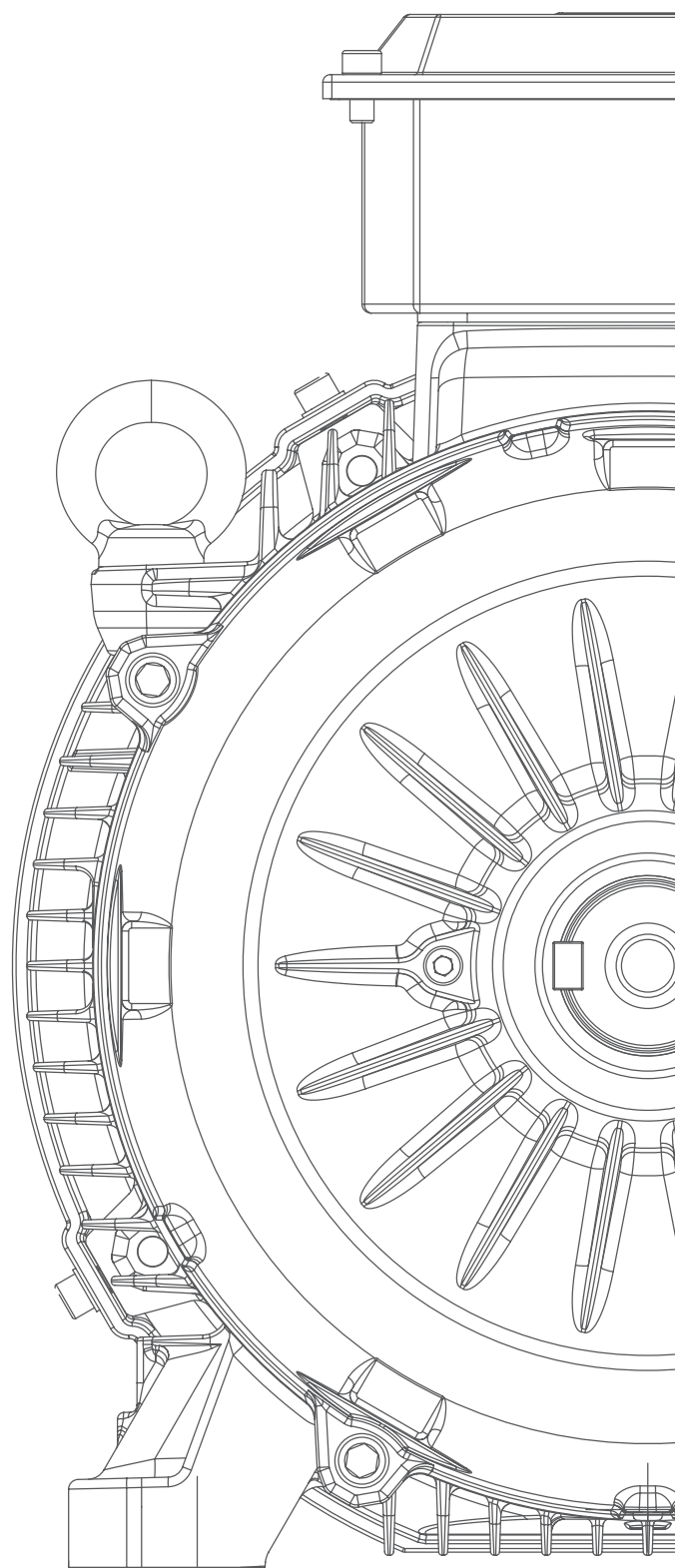
(2) For further details regarding inverter operation, please contact WEG.

Optional Available Features

- Other mountings
- C-DIN flange up to 132 frame size
- FF flange
- Thermistor PTC (160M up to 355A/B)
- Lip seal or Oil Seal for motors fitted with flange
- Drip cover for vertical shaft-down mounting

Certification

- BIS: High Efficiency (IE2) and Premium Efficiency (IE3)
- CE Marking: Premium Efficiency (IE3)



Electrical Data

Three-phase Electric Induction Motor - Premium Efficiency - IE3 - 50 Hz ⁽¹⁾

Output		Frame	Full Load Torque (Nm)	Locked Rotor Current II/In	Locked Rotor Torque TI/Tn	Break-down Torque Tb/Tn	Inertia J (kgm²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	415 V								
								Rated speed (rpm)	% of full load						Full load current In (A)					
									Efficiency			Power Factor								
kW	HP							Hot	Cold				50	75	100	50	75	100		
II Poles																				
0.37	0.5	71	1.25	7.0	2.2	2.4	0.0004	16	35	10.0	56	2835	69.1	72.9	73.8	0.59	0.72	0.80	0.872	
0.55	0.75	71	1.85	7.0	2.7	2.8	0.0005	15	33	11.0	56	2840	76.6	77.0	77.8	0.63	0.76	0.84	1.17	
0.75	1	80	2.52	7.0	2.9	2.9	0.0008	20	44	15.0	59	2845	79.2	80.7	80.7	0.62	0.75	0.82	1.58	
1.1	1.5	80	3.70	7.0	4.2	3.6	0.0009	18	40	16.0	59	2840	80.4	82.6	82.7	0.55	0.69	0.80	2.31	
1.5	2	L90S	4.95	7.0	2.6	3.2	0.0022	11	24	20.0	62	2895	81.0	83.2	84.2	0.59	0.72	0.80	3.10	
2.2	3	90L	7.30	7.7	3.6	3.5	0.0025	13	29	23.0	62	2880	84.1	85.9	85.9	0.59	0.72	0.80	4.45	
3	4	100L	9.92	7.7	2.8	3.3	0.0053	13	29	31.0	67	2890	86.8	87.1	87.1	0.71	0.82	0.86	5.57	
3.7	5	100L	12.2	7.7	3.4	3.4	0.0064	12	26	33.0	67	2895	87.0	87.8	87.8	0.74	0.84	0.88	6.66	
4	5.5	112M	13.2	7.7	2.4	3.3	0.0096	13	29	42.0	62	2900	88.0	88.1	88.1	0.77	0.86	0.88	7.18	
5.5	7.5	132S	17.9	7.7	2.4	3.5	0.0207	12	26	62.0	63	2944	86.9	88.5	89.2	0.68	0.79	0.85	10.1	
7.5	10	L132S	24.4	7.7	2.4	3.2	0.0234	17	37	73.0	63	2940	88.5	89.8	90.1	0.77	0.85	0.89	13.0	
9.2	12.5	L132M	29.9	7.7	2.7	3.4	0.0303	17	37	83.0	63	2940	89.5	90.7	90.7	0.76	0.85	0.89	15.9	
11	15	160M	35.6	7.0	2.6	3.4	0.0306	16	35	108	67	2950	89.6	90.7	91.2	0.67	0.78	0.84	20.0	
15	20	160M	48.7	7.0	2.7	3.4	0.0444	14	31	137	67	2940	91.3	91.9	91.9	0.75	0.84	0.88	25.8	
18.5	25	160L	60.1	7.7	2.8	3.5	0.0555	14	31	153	67	2940	92.2	92.4	92.4	0.76	0.85	0.88	31.7	
22	30	180M	71.1	7.7	2.2	3.1	0.1081	13	29	190	67	2955	92.0	92.7	92.7	0.76	0.84	0.86	38.4	
30	40	200M/L	96.8	7.0	3.1	3.1	0.1695	19	42	238	72	2960	92.0	93.0	93.3	0.71	0.81	0.86	52.0	
37	50	200M/L	119	7.0	3.3	3.2	0.2119	17	37	312	72	2960	93.0	93.7	93.7	0.75	0.83	0.86	63.9	
45	60	225S/M	145	7.0	2.5	3.2	0.3566	18	40	349	74	2965	92.4	93.4	94.0	0.74	0.82	0.86	77.4	
55	75	250S/M	177	7.0	2.8	3	0.3553	20	44	426	74	2965	92.6	93.6	94.3	0.74	0.82	0.86	94.4	
75	100	W280S/M	242	7.0	3.1	2.9	0.5414	18	40	537	74	2960	93.8	94.4	94.7	0.80	0.87	0.89	124	
90	125	W280S/M	291	7.0	2.9	3	0.5583	31	68	573	74	2960	94.3	94.9	95.0	0.80	0.86	0.88	150	
110	150	W315S/M	353	7.0	2	2.7	1.24	34	75	815	77	2975	94.3	95.2	95.2	0.82	0.87	0.89	181	
125	170	W315S/M	401	7.0	2.1	2.5	1.62	37	81	925	77	2975	94.7	95.3	95.3	0.82	0.87	0.89	205	
132	175	W315S/M	424	7.0	2.5	2.9	1.71	31	68	958	77	2975	94.7	95.4	95.4	0.80	0.86	0.88	219	
150	200	315S/M	481	7.7	2.2	2.9	1.31	41	90	1005	77	2979	94.5	95.5	95.5	0.81	0.86	0.88	248	
160	220	315S/M	513	7.7	2.4	3.2	1.31	37	81	1010	77	2981	94.8	95.6	95.6	0.79	0.85	0.88	265	
185	250	315S/M	593	7.7	2.7	3.1	1.61	34	75	1120	77	2982	95.2	95.7	95.7	0.80	0.87	0.89	302	
200	270	315L	640	7.7	2.9	3.3	3.42	32	70	1295	78	2984	94.8	95.8	95.8	0.77	0.85	0.88	330	
225	305	315L	721	7.7	2.6	2.6	3.57	34	75	1330	78	2981	95.3	95.8	95.8	0.82	0.87	0.90	363	
250	340	315L ⁽²⁾	802	7.7	2.3	2.3	3.57	24	53	1335	78	2977	95.3	95.8	95.8	0.85	0.88	0.90	403	
280	380	315L ⁽²⁾	898	7.7	2.5	2.8	4.07	25	55	1430	78	2980	95.1	95.8	95.8	0.81	0.88	0.90	452	
300	400	355M/L ⁽²⁾	962	7.7	2.5	2.5	4.83	24	53	1690	80	2981	95.0	95.4	95.4	0.88	0.90	0.91	481	
315	430	355M/L ⁽²⁾	1008	7.7	2.3	2.6	5.25	28	62	1700	80	2985	95.4	95.8	95.8	0.84	0.88	0.90	508	
330	450	355M/L ⁽²⁾	1057	7.7	2.2	2.4	5.90	34	75	1800	80	2983	95.2	95.8	95.8	0.84	0.85	0.90	532	
355	480	355M/L ⁽²⁾	1137	7.7	2.5	2.6	6.01	27	59	1850	80	2982	95.3	95.8	95.8	0.78	0.80	0.89	579	
Optionals																				
5.5	7.5	L112M	18.1	7.7	3.0	3.8	0.0116	14	31	50.0	62	2905	88.4	89.2	89.2	0.74	0.84	0.87	9.86	
9.2	12.5	160M	29.8	7.0	2.3	3.5	0.0367	19	42	105	67	2950	89.0	90.2	90.7	0.65	0.77	0.83	17.0	
200	270	355M/L	640	7.7	1.8	2.7	3.65	49	108	1425	80	2985	94.5	95.3	95.8	0.81	0.87	0.88	330	
225	305	355M/L	721	7.7	2	2.3	4.63	46	101	1590	80	2982	95.0	95.6	95.8	0.86	0.90	0.91	359	
250	340	355M/L	800	7.7	2.4	2.9	4.74	41	90	1600	80	2985	95.2	95.8	95.8	0.85	0.89	0.90	403	
280	380	355M/L ⁽²⁾	897	7.7	2.5	2.5	5.28	29	64	1685	80	2982	95.2	95.7	95.8	0.86	0.90	0.91	447	

Note:
(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 temperature rise.

Three-phase Electric Induction Motor - Premium Efficiency - IE3 - 50 Hz ⁽¹⁾

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)	415 V							
								Rated speed (rpm)	% of full load						Full load current In (A)				
									Efficiency			Power Factor							
									50			75	100	50		75	100		
kW	HP							Hot	Cold										
IV Poles																			
0.25	0.33	71	1.69	6.0	2.2	2.4	0.0008	48	106	11.0	43	1415	70.3	73.5	73.5	0.47	0.60	0.71	0.666
0.37	0.5	71	2.55	6.5	2.8	2.7	0.0008	50	110	12.0	43	1385	75.4	77.3	77.3	0.47	0.61	0.72	0.925
0.55	0.75	80	3.67	6.5	2.5	2.9	0.0034	22	48	17.0	44	1430	79.5	80.8	80.8	0.57	0.71	0.79	1.20
0.75	1	80	5.03	6.5	3.2	3.4	0.0034	19	42	17.0	44	1425	78.6	80.5	82.5	0.54	0.69	0.79	1.60
1.1	1.5	90S	7.25	6.5	2.5	2.9	0.0052	15	33	21.0	49	1450	82.3	84.0	84.1	0.55	0.68	0.77	2.36
1.5	2	90L	9.88	6.5	2.9	3.1	0.0066	12	26	23.0	49	1450	83.9	84.9	85.3	0.57	0.70	0.77	3.18
2.2	3	100L	14.6	7.5	3.8	3.4	0.0090	19	42	33.0	53	1440	86.1	86.5	86.7	0.57	0.70	0.79	4.47
3	4	L100L	19.9	7.5	4.2	3.6	0.0120	17	37	38.0	53	1440	87.2	87.7	87.7	0.58	0.71	0.79	6.02
3.7	5	112M	24.4	7.5	2.5	3.1	0.0156	18	40	42.0	56	1450	87.2	88.4	88.4	0.60	0.72	0.78	7.47
4	5.5	112M	26.4	7.5	2.5	3	0.0180	17	37	45.0	56	1445	88.0	88.5	88.6	0.57	0.71	0.78	8.05
5.5	7.5	132S	35.7	7.5	2.1	3	0.0434	10	22	69.0	56	1470	88.0	89.6	89.6	0.68	0.78	0.84	10.2
7.5	10	132M	49.1	7.5	2.1	2.8	0.0643	14	31	77.0	56	1460	89.5	90.0	90.4	0.77	0.84	0.87	13.3
9.2	12.5	132M/L	60.0	7.5	2.5	3.3	0.0788	11	24	86.0	56	1465	89.5	91.0	91.0	0.70	0.80	0.83	16.9
11	15	160M	71.3	7.0	2.5	3	0.0730	16	35	122	57	1475	90.0	91.4	91.4	0.66	0.78	0.83	20.2
15	20	160L	97.2	7.0	2.8	3.2	0.1023	14	31	154	57	1475	91.0	92.1	92.1	0.65	0.78	0.84	27.0
18.5	25	180M	120	7.0	3	3.1	0.1914	16	35	186	62	1475	92.6	92.6	92.6	0.66	0.77	0.84	33.1
22	30	180L	143	7.5	3.2	3.4	0.2262	15	33	213	62	1475	92.2	92.2	93.0	0.64	0.76	0.82	40.1
30	40	200M/L	194	7.0	2.9	3.2	0.3609	18	40	270	63	1475	92.7	93.5	93.6	0.71	0.81	0.85	52.5
37	50	225S/M	239	7.0	2.4	2.8	0.6447	26	57	326	64	1480	93.2	93.5	93.9	0.65	0.76	0.84	65.3
45	60	225S/M	291	7.0	3.1	3.3	0.7804	23	51	355	64	1480	92.9	93.9	94.2	0.66	0.77	0.82	81.0
55	75	250S/M	354	7.0	2.8	2.9	0.8430	18	40	461	64	1485	93.9	94.5	94.6	0.70	0.80	0.84	96.3
75	100	W280S/M	484	7.0	2.9	2.9	1.25	16	35	573	64	1480	94.0	94.5	95.0	0.73	0.82	0.84	131
90	125	W280S/M	581	7.0	2.9	2.9	1.21	33	73	596	64	1480	94.0	94.7	95.2	0.73	0.82	0.85	155
110	150	W315S/M	707	7.0	2.6	2.9	2.40	23	51	846	69	1487	95.0	95.4	95.4	0.72	0.81	0.84	191
125	170	W315S/M	803	7.0	2.7	2.8	2.93	22	48	910	69	1487	95.3	95.6	95.6	0.70	0.79	0.83	219
132	175	W315S/M	848	7.0	2.6	2.7	3.16	21	46	964	69	1487	95.5	95.6	95.6	0.72	0.82	0.84	229
150	200	315S/M	961	7.7	3.2	3.4	2.40	28	62	1010	71	1492	94.5	95.5	95.8	0.63	0.74	0.80	272
160	220	315S/M	1025	7.7	3.3	3.3	2.55	25	55	1040	71	1492	94.4	95.5	95.8	0.62	0.74	0.81	287
185	250	315S/M	1185	7.7	3.4	3.4	2.92	25	55	1120	71	1492	94.9	95.8	95.9	0.64	0.75	0.80	335
200	270	315L	1283	7.7	2.9	2.9	4.52	29	64	1215	73	1490	95.9	96.0	96.0	0.71	0.80	0.84	345
225	305	315L	1442	7.7	3.2	2.9	5.75	25	55	1360	73	1491	95.8	96.0	96.0	0.73	0.82	0.85	384
250	340	315L	1602	7.7	3.2	3	6.39	27	59	1450	73	1491	95.7	96.0	96.0	0.72	0.81	0.85	426
280	380	315L ⁽²⁾	1796	7.7	3	3	6.38	20	44	1450	73	1490	95.5	96.0	96.0	0.71	0.80	0.85	477
300	400	315L ⁽²⁾	1925	7.7	2.9	2.7	6.49	22	48	1470	73	1489	95.5	96.0	96.0	0.73	0.82	0.85	511
315	430	355M/L ⁽²⁾	2017	7.7	3	3	9.49	18	40	1730	74	1492	95.0	96.0	96.0	0.70	0.80	0.84	543
330	450	355M/L ⁽²⁾	2115	7.7	2.6	2.6	10.4	19	42	1815	74	1491	95.8	96.0	96.0	0.77	0.84	0.86	556
355	480	355M/L ⁽²⁾	2273	7.7	2.6	2.8	10.4	16	35	1820	74	1492	95.6	96.0	96.0	0.72	0.81	0.84	612
Optionals																			
9.2	12.5	160M	59.6	7.0	2.2	3.1	0.0908	17	37	115	57	1475	90.1	90.8	91.0	0.64	0.76	0.82	17.2
225	305	355M/L	1440	7.7	3	3.2	7.56	20	44	1520	74	1493	94.9	95.9	96.0	0.68	0.78	0.83	393
250	340	355M/L	1601	7.7	2.6	2.9	8.27	28	62	1600	74	1492	95.0	96.0	96.0	0.70	0.80	0.85	426
280	380	355M/L ⁽²⁾	1793	7.7	2.7	2.7	8.99	20	44	1670	74	1492	95.6	96.0	96.0	0.74	0.82	0.85	477
300	400	355M/L ⁽²⁾	1924	7.7	2.5	2.5	8.95	17	37	1675	74	1490	95.7	96.0	96.0	0.74	0.82	0.85	511

Note:

(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 temperature rise.

Three-phase Electric Induction Motor - Premium Efficiency - IE3 - 50 Hz ⁽¹⁾

Output		Frame	Full Load Torque (Nm)	Locked Rotor Current I/In	Locked Rotor Torque TI/Tn	Break-down Torque Tb/Tn	Inertia J (kgm²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	415 V								
								Rated speed (rpm)	% of full load							Full load current In (A)				
									Efficiency			Power Factor								
kW	HP							Hot	Cold				50	75	100	50	75	100		
VI Poles ⁽³⁾																				
0.18	0.25	71	1.85	6.5	2.6	2.1	0.0009	50	110	12.0	43	930	56.5	62.3	63.9	0.33	0.42	0.57	0.688	
0.25	0.33	80	2.50	6.5	2	2.4	0.0027	27	59	15.0	43	955	60.4	67.0	68.6	0.45	0.57	0.70	0.724	
0.37	0.5	80	3.80	6.5	2.3	2.3	0.0030	33	73	16.0	43	930	70.3	73.3	73.5	0.49	0.62	0.73	0.959	
0.55	0.75	L80	5.59	6.5	3	2.7	0.0037	25	55	18.0	43	940	72.2	75.5	77.2	0.47	0.60	0.72	1.38	
0.75	1	L90S	7.66	6.5	2.2	2.4	0.0066	30	66	28.0	45	935	77.5	78.3	78.9	0.53	0.65	0.71	1.86	
1.1	1.5	100L	11.1	6.5	2.5	2.4	0.0093	37	81	27.0	44	950	79.0	81.0	81.0	0.54	0.66	0.73	2.59	
1.5	2	L100L	14.9	6.5	2.2	2.5	0.0176	25	55	30.0	44	960	79.4	81.6	82.5	0.50	0.60	0.72	3.51	
2.2	3	112M	22.1	7.5	2.4	2.5	0.0220	25	55	42.0	49	950	83.3	84.0	84.3	0.53	0.63	0.73	4.97	
3	4	132S	29.6	7.5	2	2.5	0.0530	26	57	65.0	53	970	84.7	85.0	85.6	0.54	0.66	0.73	6.68	
3.7	5	132S	36.6	7.5	2.2	2.4	0.0435	34	75	65.0	53	965	85.3	86.4	86.5	0.57	0.68	0.74	8.04	
4	5.5	132M	39.2	7.0	2.5	2.7	0.0643	21	46	72.0	53	975	84.0	86.0	86.8	0.48	0.61	0.73	8.78	
5.5	7.5	132M/L	54.2	7.5	3	2.9	0.0719	32	70	82.0	53	970	87.1	88.0	88.0	0.47	0.60	0.72	12.1	
45	60	280S/M	435	7.5	2.4	2.9	2.70	26	57	555	65	988	92.0	93.7	93.7	0.61	0.72	0.78	85.7	
55	75	280S/M	532	7.5	2.4	2.8	2.92	23	51	590	65	988	93.0	94.1	94.1	0.63	0.74	0.80	102	
75	100	315S/M	722	7.7	2.5	3	2.69	40	88	890	67	993	94.0	94.6	94.6	0.63	0.74	0.80	138	
90	125	315S/M	866	7.7	2.5	3	3.22	39	86	970	67	993	94.5	94.9	94.9	0.60	0.73	0.80	165	
110	150	315S/M	1060	7.7	2.4	2.8	3.44	30	66	1000	67	992	94.7	95.1	95.1	0.62	0.74	0.80	201	
125	170	315S/M	1203	7.7	2.5	3	4.02	26	57	1065	67	993	94.0	95.0	95.3	0.65	0.75	0.80	228	
132	175	315S/M	1270	7.7	2.7	3	4.25	27	59	1100	67	993	94.8	95.3	95.4	0.64	0.75	0.80	241	
150	200	315L	1443	7.7	2.9	2.9	7.96	23	51	1240	68	993	94.3	95.3	95.5	0.60	0.72	0.80	273	
160	220	315L ⁽²⁾	1540	7.7	2.9	2.4	8.15	23	51	1250	68	993	94.5	95.0	95.6	0.61	0.73	0.79	295	
185	250	315L ⁽²⁾	1780	7.7	2.9	3	9.04	20	44	1330	68	993	94.0	94.9	95.7	0.60	0.72	0.80	336	
200	270	355M/L	1923	7.7	2.1	2.6	11.3	50	110	1660	73	994	94.2	95.3	95.8	0.62	0.73	0.80	363	
225	305	355M/L	2163	7.7	2.2	2.5	12.2	50	110	1735	73	994	92.6	94.4	95.8	0.45	0.58	0.79	414	
250	340	355M/L	2403	7.7	2.4	2.7	12.7	42	92	1770	73	994	94.5	95.5	95.8	0.62	0.73	0.79	460	
280	380	355M/L	2689	7.7	2.7	3	14.1	35	77	1880	73	995	94.0	95.0	95.8	0.57	0.68	0.75	542	
300	400	355M/L	2884	7.7	2.4	2.7	14.6	38	84	1920	73	994	94.0	95.5	95.8	0.63	0.73	0.79	551	
315	430	355M/L ⁽²⁾	3031	7.7	2.3	2.4	15.0	40	88	1970	73	993	94.5	95.5	95.8	0.64	0.74	0.80	572	
330	450	355A/B ⁽²⁾	3179	7.7	1.8	2.1	13.9	31	68	2015	73	992	94.8	95.6	95.8	0.67	0.76	0.80	599	
355	480	355A/B ⁽²⁾	3416	7.7	2.3	2.4	15.9	27	59	2175	73	993	94.6	95.6	95.8	0.65	0.75	0.80	644	
Optionals																				
160	220	355M/L	1540	7.7	1.6	2.0	8.34	32	70	1415	73	993	94.3	95.2	95.6	0.67	0.77	0.80	291	
185	250	355M/L	1780	7.7	1.9	2.3	9.03	32	70	1475	73	993	94.2	95.2	95.7	0.65	0.75	0.80	336	

Note:

(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 temperature rise.

(3) 6-pole motors in outputs from 7.5 up to 37 kW are available under request.

Three-phase Electric Induction Motor - High Efficiency - IE2 - 50 Hz ⁽¹⁾

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)	415 V							
								Rated speed (rpm)	% of full load						Full load current In (A)				
									Efficiency			Power Factor							
kW	HP							Hot	Cold				50	75	100	50	75	100	
II Poles																			
0.37	0.5	71	1.24	6.5	2.2	2.5	0.0004	13	29	10.0	56	2850	64.4	69.0	69.5	0.57	0.71	0.81	0.914
0.55	0.75	71	1.85	6.5	2.5	2.6	0.0005	11	24	11.0	56	2840	70.6	74.1	74.1	0.61	0.75	0.81	1.27
0.75	1	80	2.53	6.5	2.5	2.5	0.0008	17	37	14.0	59	2830	76.6	77.0	77.4	0.66	0.78	0.85	1.59
1.1	1.5	80	3.67	6.5	3.3	3.3	0.0010	13	29	16.0	59	2860	78.0	79.0	79.6	0.58	0.72	0.80	2.40
1.5	2	90S	4.96	6.5	2.4	2.9	0.0020	9	20	20.0	64	2890	80.5	81.0	81.3	0.59	0.71	0.80	3.21
2.2	3	90L	7.32	7.0	3.3	3.4	0.0025	11	24	23.0	64	2870	82.0	82.8	83.2	0.61	0.74	0.81	4.54
3	4	100L	9.83	7.0	2.3	3.3	0.0064	8	18	31.0	67	2915	83.6	84.0	84.6	0.70	0.82	0.88	5.61
3.7	5	100L	12.2	7.0	2.8	3.2	0.0064	13	29	33.0	67	2890	85.5	85.5	85.5	0.73	0.83	0.88	6.84
4	5.5	112M	13.2	7.0	2.6	3.4	0.0088	12	26	41.0	64	2905	84.8	85.0	85.8	0.77	0.85	0.89	7.29
5.5	7.5	132S	17.9	7.0	2.2	3.2	0.0189	10	22	60.0	67	2940	84.0	84.1	87.0	0.72	0.82	0.87	10.1
7.5	10	132S	24.4	7.0	2.3	3.2	0.0252	10	22	68.0	67	2935	87.0	88.1	88.1	0.74	0.84	0.88	13.5
9.2	12.5	L132M	29.9	7.0	2.4	3.3	0.0303	9	20	79.0	67	2937	88.0	88.8	88.8	0.76	0.85	0.89	16.2
11	15	160M	35.6	7.0	2.5	3.5	0.0306	16	35	108	69	2950	88.4	89.4	89.4	0.68	0.79	0.85	20.1
15	20	160M	48.7	7.0	2.7	3.2	0.0444	14	31	137	69	2940	90.3	90.3	90.3	0.75	0.84	0.88	26.3
18.5	25	160L	60.1	7.0	2.9	3.3	0.0555	14	31	153	69	2940	90.9	90.9	90.9	0.79	0.86	0.89	31.8
22	30	180M	71.1	7.0	2.2	3.1	0.1081	13	29	190	70	2955	90.5	91.3	91.3	0.76	0.84	0.86	39.0
30	40	200M/L	96.8	7.0	3.1	3.1	0.1695	18	40	238	74	2960	90.8	92.0	92.0	0.71	0.81	0.86	52.8
37	50	200M/L	119	7.0	3.3	3.3	0.2119	15	33	267	74	2960	91.6	92.5	92.5	0.76	0.84	0.86	64.7
45	60	225S/M	145	7.0	2.4	3.2	0.3396	17	37	342	74	2965	92.2	92.9	92.9	0.73	0.82	0.86	78.4
55	75	250S/M	178	7.0	2.7	3	0.3553	18	40	425	74	2960	92.6	93.2	93.2	0.75	0.83	0.87	94.4
75	100	W280S/M	242	7.0	3	3.1	0.5244	16	35	579	74	2965	93.7	93.8	93.8	0.79	0.85	0.87	128
90	125	W280S/M	291	7.0	2.9	3	0.5583	31	68	624	74	2960	94.1	94.1	94.1	0.80	0.86	0.89	150
110	150	W315S/M	353	7.0	2	2.7	1.24	34	75	815	77	2975	94.3	94.3	94.3	0.82	0.87	0.89	182
125	170	W315S/M	401	7.0	2.2	2.7	1.53	34	75	900	77	2975	94.5	94.5	94.5	0.82	0.87	0.89	207
132	175	W315S/M	424	7.0	2.4	2.9	1.58	26	57	910	77	2975	94.6	94.6	94.6	0.78	0.85	0.89	218
150	200	315S/M	481	7.0	2.2	2.9	1.27	38	84	990	77	2980	94.6	94.7	94.7	0.79	0.86	0.88	250
160	220	315S/M	513	7.0	2.4	3	1.35	37	81	1010	77	2980	94.6	94.8	94.8	0.79	0.80	0.89	264
185	250	315S/M ⁽²⁾	593	7.0	2.7	3	1.48	26	57	1070	77	2980	95.0	95.0	95.0	0.79	0.86	0.87	311
200	270	315L	641	7.0	2.5	2.8	3.28	34	75	1270	78	2981	95.0	95.0	95.0	0.80	0.85	0.88	333
225	305	315L	721	7.0	2.5	2.6	3.50	33	73	1315	78	2981	95.0	95.0	95.0	0.82	0.88	0.90	366
250	340	315L ⁽²⁾	802	7.0	2.2	2.5	3.50	23	51	1320	78	2977	95.0	95.0	95.0	0.84	0.88	0.90	407
280	380	315L ⁽²⁾	898	7.0	2.5	2.8	4.07	25	55	1430	78	2980	95.0	95.0	95.0	0.81	0.88	0.90	456
300	400	315L ⁽²⁾	962	7.0	2.6	2.8	4.17	20	44	1450	78	2980	95.0	95.0	95.0	0.84	0.88	0.90	488
315	430	355M/L ⁽²⁾	1008	7.0	2.3	2.6	5.25	28	62	1700	80	2985	95.0	95.0	95.0	0.84	0.88	0.90	513
330	450	355M/L ⁽²⁾	1057	7.0	2.6	2.8	5.90	31	68	1800	80	2984	95.0	95.0	95.0	0.87	0.90	0.90	537
355	480	355M/L ⁽²⁾	1137	7.0	2.4	2.5	6.01	26	57	1830	80	2982	95.0	95.0	95.0	0.87	0.90	0.91	571
Optionals																			
5.5	7.5	112M	18.1	7.0	3.0	3.7	0.0094	16	35	45.0	64	2900	87.0	87.0	87.0	0.68	0.79	0.84	10.5
9.2	12.5	160M	29.8	7.0	2.3	3.6	0.0331	16	35	100	69	2950	86.3	88.4	88.8	0.60	0.73	0.81	17.8
200	270	355M/L	640	7.0	1.9	2.7	3.65	50	110	1425	80	2985	94.5	95.0	95.0	0.81	0.86	0.88	333
225	305	355M/L	720	7.0	2.6	2.7	4.52	41	90	1560	80	2984	94.5	95.0	95.0	0.86	0.90	0.91	362
250	340	355M/L	800	7.0	2.4	2.2	4.74	41	90	1603	80	2985	95.0	95.0	95.0	0.85	0.89	0.90	407
280	380	355M/L ⁽²⁾	897	7.0	2.7	2.7	5.28	26	57	1680	80	2983	95.0	95.0	95.0	0.87	0.90	0.91	451
300	400	355M/L ⁽²⁾	962	7.0	2.5	2.5	5.28	27	59	1690	80	2981	94.5	95.0	95.0	0.87	0.90	0.91	483

Note:

(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 temperature rise.

Three-phase Electric Induction Motor - High Efficiency - IE2 - 50 Hz ⁽¹⁾

Output		Frame	Full Load Torque (Nm)	Locked Rotor Current II/In	Locked Rotor Torque TI/Tn	Break-down Torque Tb/Tn	Inertia J (kgm²)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	Rated speed (rpm)	415 V							
								Hot	Cold				% of full load						Full load current In (A)	
													Efficiency			Power Factor				
kW	HP												50	75	100	50	75	100		
IV Poles																				
0.25	0.33	71	1.69	5.5	2.3	2.7	0.0007	35	77	10.0	43	1415	60.4	66.8	68.5	0.42	0.55	0.68	0.747	
0.37	0.5	71	2.53	6.0	2.5	2.5	0.0008	35	77	11.0	43	1395	68.9	72.0	72.7	0.45	0.61	0.71	0.997	
0.55	0.75	80	3.64	6.0	2.5	3.3	0.0032	15	33	16.0	44	1445	72.0	76.2	77.1	0.46	0.60	0.70	1.42	
0.75	1	80	5.03	6.0	2.8	3	0.0032	16	35	16.0	44	1425	78.4	79.0	79.6	0.54	0.69	0.79	1.66	
1.1	1.5	90S	7.27	6.0	2.3	2.7	0.0049	13	29	20.0	49	1445	80.5	81.0	81.4	0.58	0.70	0.78	2.41	
1.5	2	90L	9.92	6.0	2.8	3	0.0063	12	26	23.0	49	1445	80.2	82.0	82.8	0.53	0.67	0.78	3.23	
2.2	3	100L	14.6	7.0	2.8	2.8	0.0097	11	24	32.0	53	1440	83.3	84.3	84.3	0.56	0.70	0.78	4.65	
3	4	L100L	20.0	7.0	3.9	3.2	0.0120	14	31	37.0	53	1435	84.5	85.0	85.5	0.61	0.74	0.81	6.03	
3.7	5	112M	24.3	7.0	2.8	3.3	0.0156	17	37	42.0	56	1455	85.5	86.3	86.3	0.58	0.69	0.77	7.75	
4	5.5	112M	26.3	7.0	3.2	3.6	0.0167	15	33	44.0	56	1455	84.6	86.0	86.6	0.49	0.63	0.75	8.57	
5.5	7.5	132S	35.9	7.0	1.9	3.1	0.0528	8	18	66.0	56	1465	86.5	87.0	87.7	0.65	0.78	0.82	10.6	
7.5	10	132M	49.1	7.0	2.2	2.9	0.0643	14	31	77.0	56	1460	87.5	88.0	88.7	0.76	0.82	0.85	13.8	
9.2	12.5	132M/L	60.0	7.0	2.4	3.2	0.0788	12	26	86.0	56	1465	88.5	89.0	89.3	0.70	0.80	0.83	17.3	
11	15	160M	71.3	7.0	2.5	3	0.0682	13	29	118	64	1475	88.6	89.8	89.8	0.64	0.76	0.82	20.8	
15	20	160L	97.2	7.0	2.8	3.1	0.0974	12	26	150	64	1475	89.4	90.6	90.6	0.68	0.79	0.84	27.4	
18.5	25	180M	120	7.0	3.2	3.4	0.1653	16	35	172	64	1475	89.6	91.2	91.2	0.63	0.75	0.81	34.8	
22	30	180L	143	7.0	3.3	3.5	0.2001	14	31	200	64	1475	90.7	91.6	91.6	0.67	0.78	0.83	40.3	
30	40	200M/L	194	7.0	2.9	3.2	0.3074	15	33	248	70	1475	91.9	92.3	92.3	0.71	0.80	0.85	53.2	
37	50	225S/M	239	7.0	2.7	3.2	0.6107	21	46	319	70	1480	91.7	92.7	92.7	0.64	0.75	0.82	67.7	
45	60	225S/M	291	7.0	2.7	3	0.6786	20	44	333	70	1480	92.4	93.1	93.1	0.68	0.78	0.83	81.0	
55	75	250S/M	354	7.0	2.6	3	0.7081	17	37	418	70	1485	93.4	93.5	93.5	0.68	0.78	0.83	98.6	
75	100	W280S/M	484	7.0	2.7	2.8	1.08	18	40	575	70	1480	94.0	94.0	94.0	0.73	0.81	0.84	132	
90	125	W280S/M	580	7.0	3.1	3.1	1.08	28	62	605	70	1483	94.2	94.2	94.2	0.68	0.78	0.83	160	
110	150	W315S/M	707	7.0	2.6	2.9	2.33	22	48	830	71	1487	94.5	94.5	94.5	0.71	0.80	0.83	195	
125	170	W315S/M	803	7.0	2.7	2.9	2.78	20	44	905	71	1487	94.7	94.7	94.7	0.71	0.80	0.83	221	
132	175	W315S/M	848	7.0	2.7	2.8	3.01	21	46	910	71	1487	94.7	94.7	94.7	0.71	0.80	0.83	234	
150	200	315S/M	961	7.0	2.9	3.1	2.31	30	66	1000	71	1491	94.9	94.9	94.9	0.65	0.77	0.81	271	
160	220	315S/M	1025	7.0	2.9	3	2.47	29	64	1030	71	1491	94.3	94.9	94.9	0.68	0.78	0.83	283	
185	250	315S/M	1186	7.0	3	3	2.94	26	57	1120	71	1491	94.9	95.1	95.1	0.67	0.78	0.80	338	
200	270	315L	1283	7.0	2.9	2.9	4.53	28	62	1220	74	1490	95.1	95.1	95.1	0.73	0.80	0.85	344	
225	305	315L	1443	7.0	2.8	2.8	5.42	29	64	1325	74	1490	95.1	95.1	95.1	0.74	0.81	0.85	387	
250	340	315L	1602	7.0	3	3	6.39	27	59	1450	74	1491	95.1	95.1	95.1	0.73	0.81	0.85	430	
280	380	315L ⁽²⁾	1796	7.0	3	3	6.38	20	44	1460	74	1490	95.1	95.1	95.1	0.72	0.80	0.85	482	
300	400	315L ⁽²⁾	1925	7.0	2.9	2.7	6.49	22	48	1470	74	1489	95.1	95.1	95.1	0.73	0.80	0.85	516	
315	430	355M/L	2017	7.0	2.5	2.7	9.47	28	62	1730	76	1492	95.1	95.1	95.1	0.68	0.78	0.85	542	
330	450	355M/L	2115	7.0	2.7	2.7	10.4	26	57	1820	76	1491	95.1	95.1	95.1	0.71	0.80	0.83	582	
355	480	355M/L ⁽²⁾	2275	7.0	2.3	2.6	10.4	19	42	1840	76	1491	95.0	95.1	95.1	0.73	0.81	0.85	611	
Optionals																				
9.2	12.5	160M	59.6	7.0	2.2	3.1	0.0839	15	33	110	64	1475	87.5	88.9	89.3	0.63	0.75	0.82	17.5	
225	305	355M/L	1441	7.0	2.7	2.8	6.84	23	51	1450	76	1492	94.6	95.1	95.1	0.71	0.80	0.85	387	
250	340	355M/L	1602	7.0	2.3	2.5	7.55	28	62	1525	76	1491	94.8	95.1	95.1	0.75	0.82	0.86	425	
280	380	355M/L	1794	7.0	2.4	2.7	8.05	28	62	1590	76	1491	95.0	95.1	95.1	0.66	0.77	0.80	512	
300	400	355M/L	1921	7.0	2.6	2.9	8.75	24	53	1660	76	1492	94.4	95.1	95.1	0.69	0.78	0.83	529	

Note:

(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 temperature rise.

Three-phase Electric Induction Motor - High Efficiency - IE2 - 50 Hz ⁽¹⁾

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)	415 V							
												Rated speed (rpm)	% of full load						Full load current In (A)
													Efficiency			Power Factor			
								50	75				100	50	75	100			
kW	HP							Hot	Cold										
VI Poles																			
0.18	0.25	71	1.86	6.0	2.0	1.8	0.0009	50	110	12.0	43	925	44.0	51.3	56.6	0.39	0.49	0.57	0.776
0.25	0.33	71	2.62	6.0	2.4	1.9	0.0009	50	110	12.0	43	910	54.2	60.0	61.6	0.37	0.47	0.56	1.01
0.37	0.5	80	3.76	6.0	2.6	2.6	0.0025	20	44	15.0	43	940	59.0	65.7	67.6	0.43	0.56	0.67	1.14
0.55	0.75	80	5.65	6.0	2.6	2.3	0.0034	21	46	17.0	43	930	69.5	72.0	73.1	0.47	0.61	0.74	1.41
0.75	1	L90S	7.62	6.0	2.3	2.4	0.0060	27	59	23.0	45	940	74.5	75.0	75.9	0.51	0.65	0.72	1.91
1.1	1.5	L90L ⁽²⁾	11.2	6.0	2.7	2.7	0.0079	20	44	26.0	45	935	76.9	78.0	78.1	0.49	0.62	0.70	2.80
1.5	2	100L	14.9	6.0	2.5	2.8	0.0143	18	40	32.0	44	960	76.2	79.0	79.8	0.47	0.60	0.70	3.74
2.2	3	112M	22.0	7.0	2.7	2.7	0.0202	18	40	40.0	49	955	79.4	81.0	81.8	0.47	0.60	0.71	5.27
3	4	132S	29.6	7.0	2.3	2.6	0.0416	19	42	59.0	53	970	81.3	83.0	83.3	0.46	0.59	0.71	7.06
3.7	5	132S	36.4	7.0	2.2	2.3	0.0568	18	40	68.0	53	970	82.2	84.0	84.3	0.56	0.67	0.75	8.14
4	5.5	132M	39.2	7.0	2.6	2.7	0.0568	18	40	70.0	53	975	83.2	84.0	84.6	0.48	0.61	0.71	9.26
5.5	7.5	132M/L	53.9	7.0	3.1	3.2	0.0681	25	55	79.0	53	975	84.0	85.0	86.0	0.46	0.59	0.71	12.5
45	60	280S/M	436	7.0	2	2.6	2.70	26	57	540	65	987	92.7	92.7	92.7	0.64	0.74	0.79	85.5
55	75	280S/M	532	7.0	2.2	2.8	2.81	15	33	590	65	988	93.1	93.1	93.1	0.63	0.74	0.79	104
75	100	315S/M	722	7.0	2	2.8	2.24	29	64	840	67	992	93.0	93.7	93.7	0.63	0.74	0.80	139
90	125	315S/M	868	7.0	2.1	2.6	2.66	33	73	900	67	991	94.0	94.0	94.0	0.60	0.71	0.80	167
110	150	315S/M	1060	7.0	2.4	2.8	3.33	28	62	985	67	992	94.3	94.3	94.3	0.62	0.74	0.80	203
125	170	315S/M	1203	7.0	2.5	3	4.02	26	57	1065	67	993	94.5	94.5	94.5	0.65	0.75	0.80	230
132	175	315S/M	1270	7.0	2.7	3	4.14	24	53	1100	67	993	94.6	94.6	94.6	0.64	0.75	0.80	243
150	200	315L ⁽²⁾	1446	7.0	2.4	2.7	7.41	17	37	1340	68	991	92.2	94.1	94.7	0.61	0.72	0.78	283
160	220	315L ⁽²⁾	1543	7.0	2.5	2.4	6.89	18	40	1160	68	991	94.0	94.8	94.8	0.63	0.74	0.80	294
185	250	315L ⁽²⁾	1784	7.0	2.6	2.7	7.96	16	35	1240	68	991	94.0	94.9	94.9	0.62	0.74	0.80	339
200	270	315L ⁽²⁾	1926	7.0	2.7	2.8	9.76	19	42	1380	68	992	94.8	95.0	95.0	0.65	0.76	0.80	366
225	305	315L ⁽²⁾	2169	7.0	2.7	2.8	10.3	16	35	1420	68	991	94.5	95.0	95.0	0.65	0.75	0.80	412
250	340	355M/L	2403	7.0	2.1	2.5	12.7	46	101	1770	73	994	94.5	95.0	95.0	0.62	0.73	0.80	458
280	380	355M/L	2689	7.0	2.7	3	13.9	33	73	1865	73	995	93.5	95.0	95.0	0.57	0.68	0.75	547
300	400	355M/L	2884	7.0	2.4	2.7	14.6	38	84	1920	73	994	94.0	95.0	95.0	0.63	0.73	0.79	556
315	430	355M/L	3031	7.0	2.3	2.5	15.0	40	88	1960	73	993	94.5	95.0	95.0	0.63	0.75	0.80	577
330	450	355A/B ⁽²⁾	3179	7.0	1.8	2.1	13.9	31	68	2015	73	992	94.8	95.0	95.0	0.67	0.76	0.80	604
355	480	355A/B ⁽²⁾	3419	7.0	1.9	2	15.5	31	68	2145	73	992	94.9	95.0	95.0	0.71	0.79	0.80	650
Optionals																			
160	220	355M/L	1540	7.0	1.9	2.3	6.95	44	97	1310	73	993	93.5	94.7	94.8	0.60	0.71	0.78	301
185	250	355M/L	1780	7.0	1.7	2.1	8.34	45	99	1420	73	993	94.1	94.9	94.9	0.64	0.74	0.80	339
200	270	355M/L	1923	7.0	2	2.4	9.96	41	90	1545	73	994	94.0	95.0	95.0	0.61	0.72	0.80	366
225	305	355M/L	2165	7.0	2	2.4	10.4	40	88	1585	73	993	94.3	95.0	95.0	0.62	0.73	0.80	412

Note:

(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.

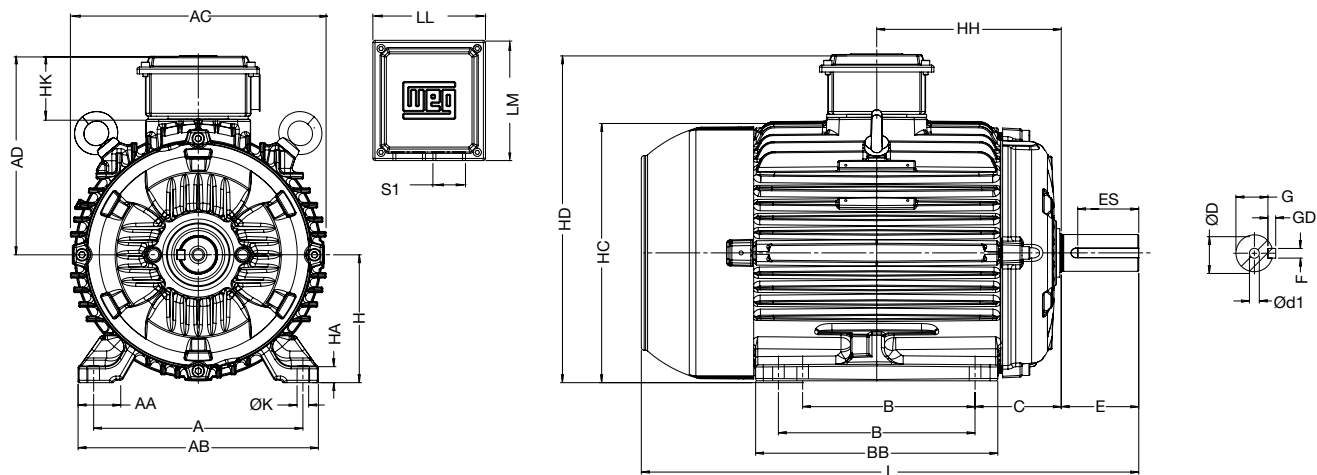
(2) Motor with class F temperature rise.

(3) 6-pole motors in outputs from 7.5 up to 37 kW are available under request.

Mechanical Data

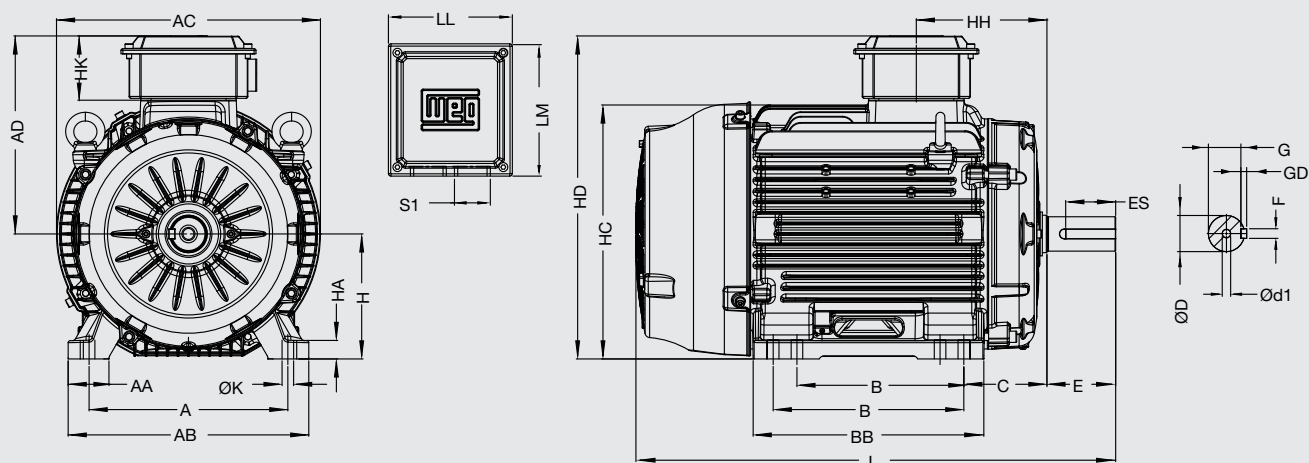
Foot Mounted Motors, Terminal Box Top

Frames 71 to 132M/L

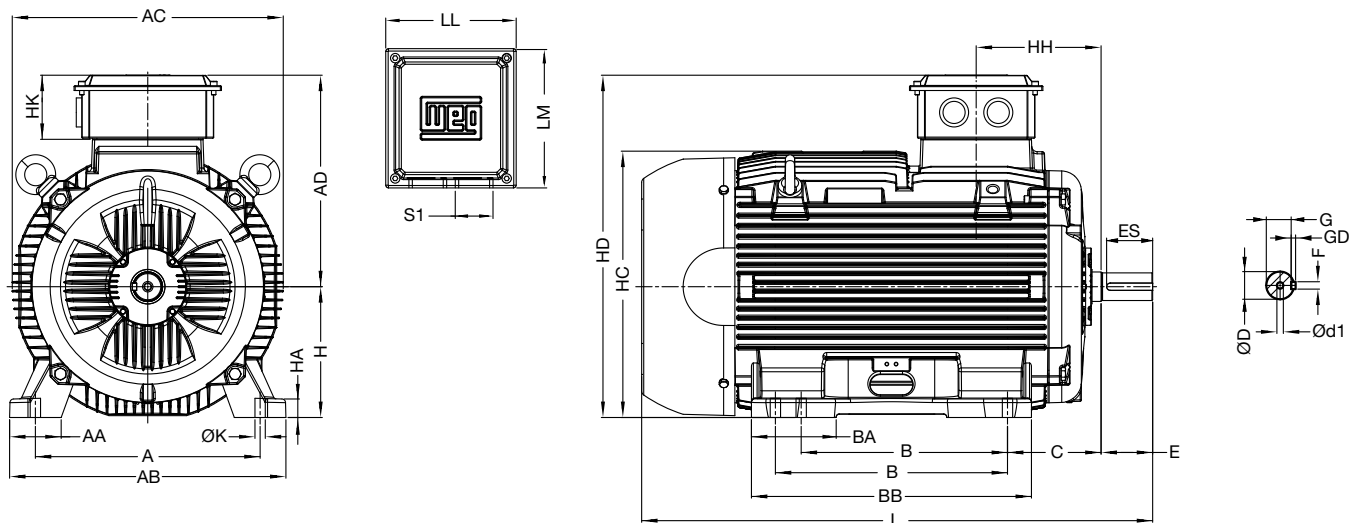


WIN motors in frame sizes 71, 80 and 90 are not fitted with eyebolts.
WIN motors in frame size 100 have the eyebolts positioned sideways.

Frames 160M to W280S/M



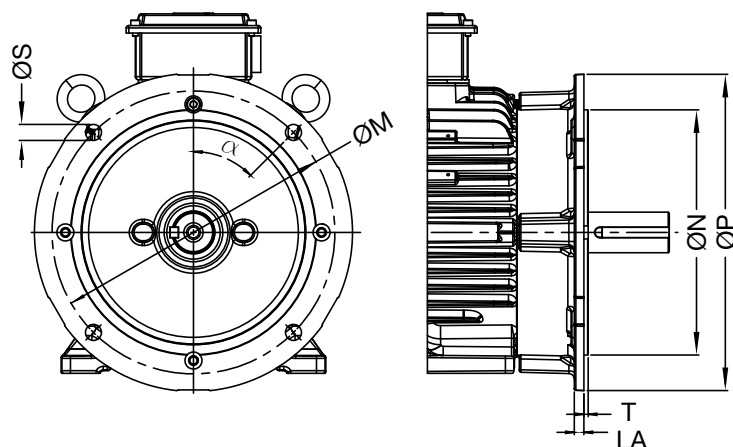
Frames 280S/M to 355A/B



Frame	Terminal box					Shaft							Bearings						
	HH	HK	LL	LM	S1	E	ES	D	D1	F	G	GD	DE	NDE					
71	90	59.5	103.5	104	M24x1.5	30	18	14j6	DM5	5	11	5	6202 ZZ	6202 ZZ					
80	100					40	28	19j6	DM6	6	15.5	6	6204 ZZ	6203 ZZ					
L80	106					50	36	24j6	DM8	8	20	7	6205 ZZ	6204 ZZ					
90S																			
L90S																			
90L																			
L90L	118.5					60	45	28j6	DM10	24	6206 ZZ	6205 ZZ							
100L																			
L100L																			
L100L	133	65.5	118	126	2xM30x2	80	63	38k6	DM12	10	33	8	6208 ZZ	6207 ZZ					
112M																			
L112M																			
132S																			
L132S	159					84	160	168	2xM36x2	110	80	42k6	DM16	12	37	9	6209 ZZ C3	6209 ZZ C3	
132M																			
L132M																			
132M/L																			
132M/L	190.5					103	200	216	2xM48x2	100	55m6	DM20	16	49	10	18	53	11	6214 C3
160M																			
160L																			
180M																			
180L	212.5	114	224	248	2xM64x2					140	125	60m6	DM20	20	67.5	12	6316 C3	6314 C3	6314 C3
200M/L																			
225S/M*																			
225S/M																			
250S/M*																			
250S/M																			
W280S/M*																			
W280S/M																			
280S/M*																			
280S/M	265.5	164	310	342	2xM72x2	170	160	80m6	DM24	28	90	16	6322 C3	6319 C3	6319 C3				
W315S/M*																			
W315S/M																			
315S/M*																			
315S/M																			
315L*																			
315L																			
355M/L*																			
355M/L																			
355A/B*	285.5	174	362	400	2xM72x2	140	125	75m6	DM20	20	67.5	12	6316 C3	6314 C3	6314 C3				
355A/B																			
	339	174	362	400	2xM72x2	210	200	100m6	DM24	28	90	16	6322 C3	6319 C3	6319 C3				
	339	174	362	400	2xM72x2	210	200	100m6	DM24	28	90	16	6322 C3	6319 C3	6319 C3				

(**) All dimensions are in mm.

“FF” Flange

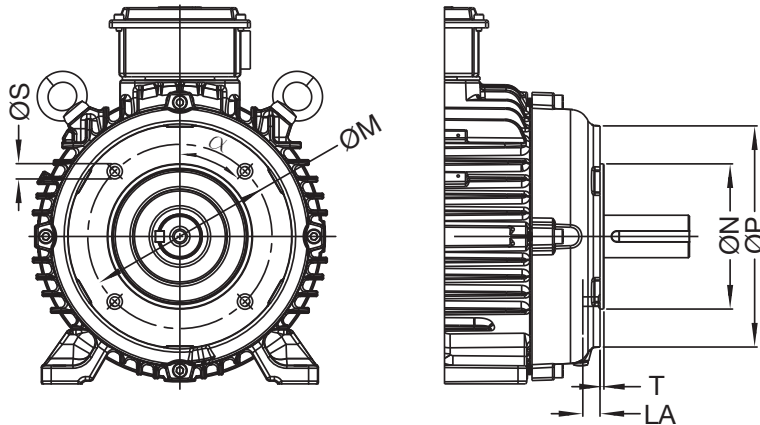


Frame	Flange		LA	M	N	P	N° of holes	S	T	α
	DIN EN 50347	DIN 42948								
71	FF-130	A-160	9	130	110	160	4	10	3.5	45°
80	FF-165	A-200		10	165	130		200		
90S										
L90S										
90L										
L90L										
100L	FF-215	A-250	12.5	215	180	250		15	4	
L100L										
112M										
L112M										
132S	FF-265	A-300	12	265	230	300				
L132S										
132M										
L132M										
132M/L										
160M	FF-300	A-350	16	300	250	348		19	5	
160L										
180M										
180L										
200M/L	FF-350	A-400	18	350	300	398	8			
225S/M	FF-400	A 450		400	350	448				
250S/M	FF-500	A-550	20	500	450	548				
W280S/M										
280S/M			22					600	550	660
W315S/M										
315S/M										
315L										
355M/L	FF-740	A-800		740	680	800 / 880		24	6	22.5°
355A/B										

Notes:

(*) All dimensions are in mm.

"C-DIN" Flange

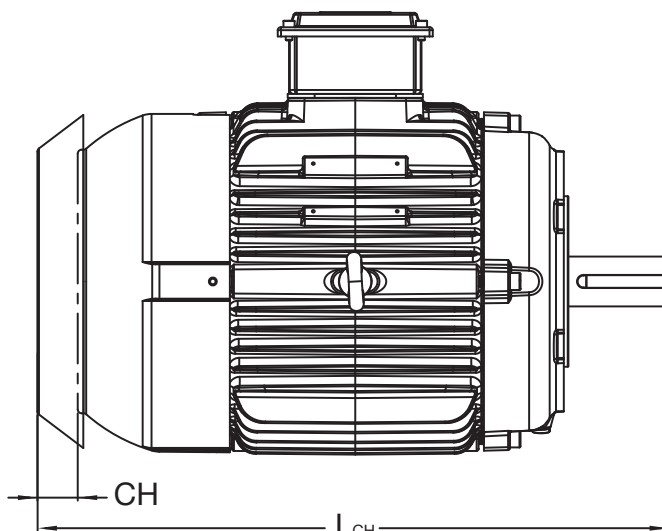


Frame	Flange		LA	M	N	P	S	T	α	N° of holes
	DIN EN 50347	DIN 42948								
71	FT-85	C-105	8	85	70	105	M6	2.5	45°	4
80	FT-100	C-120	10.5	100	80	120		3		
L80										
90S	FT-115	C-140	15	115	95	140	M8			
L90S										
90L										
L90L										
100L	FT-130	C-160	12	130	110	160	M8	3.5		
L100L										
112M										
L112M										
132S	FT-165	C-200	15.5	165	130	200	M10			
L132S										
132M										
L132M										
132M/L										

Notes:

(*) All dimensions are in mm.

Drip Cover



Frame	LCH	CH
71	268.5	18.5
80	295.5	
L80	320.5	
90S	323.5	
L90S	253	
90L	348.5	34.5
L90L	378	
100L	406.5	
L100L	444.5	
112M	428.5	
L112M	463.5	58.5
132S	485	
L132S	510	
132M	523.5	
L132M	548.5	
132M/L	548	
160M	679	58.5
160L	723.5	
180M	743	
180L	781	

Frame	LCH	CH
200M/L	844	76.5
225S/M*	933	
225S/M	963	
250S/M	1042	
W280S/M	1070.5	
280S/M	1154	94.5
W315S/M*	1204.5	
W315S/M	1234.5	
315S/M*	1278	
315S/M	1308	
315L*	1388	95
315L	1418	
355M/L*	1499	
355M/L	1569	
355A/B*	1694	
355A/B	1764	

Notes:

(*) Dimension applicable to 2 pole motors.

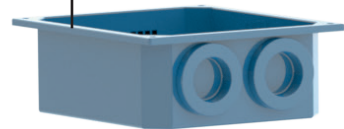
(**) All dimensions are in mm.

Components Design



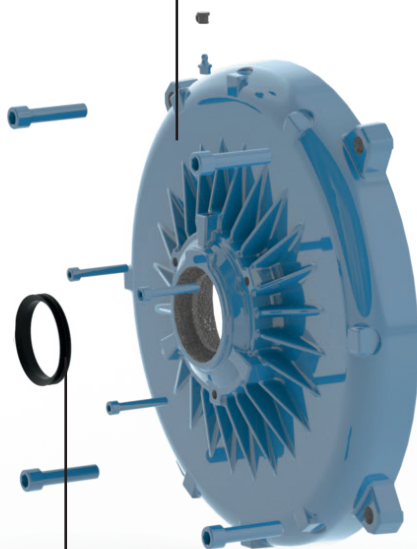
Terminal Box

- Space available for accessories leads connectors.
- Bulk Moulding Compound terminal block (BMC).



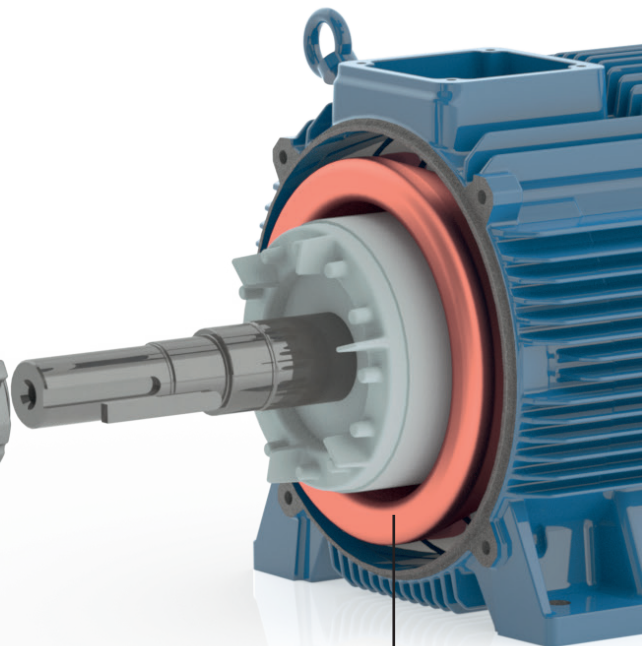
DE (Drive Endshield)

- Cooling fins for improved heat dissipation.
- Reduced bearing operating temperature.
- Reinforced endshield structure.



Sealing System

- Increased dust and moisture protection.
- V-Ring sealing as standard feature.



WEG Insulation System Evolution (WISE®)

WEG Insulation System Evolution (WISE®) allows all WIN motors to operate with frequency inverter, as this enamelling process ensures the coils protection against peaks and voltage variations that occur continuously in this type of operation.

Frame

The WIN frame is manufactured in FC-200 cast iron to provide high levels of mechanical strength to cater for the most critical applications.

Vibration Monitoring

- Flat areas at both ends for placement of accelerometers.
(frames 280 S/M to 355 A/B)

Eyebolts

- Safer and easier handling.
- High mechanical resistance.

Solid Feet

- Higher resistance to impacts.
- Suitable for applications with high vibration.
- Easier installation and alignment.

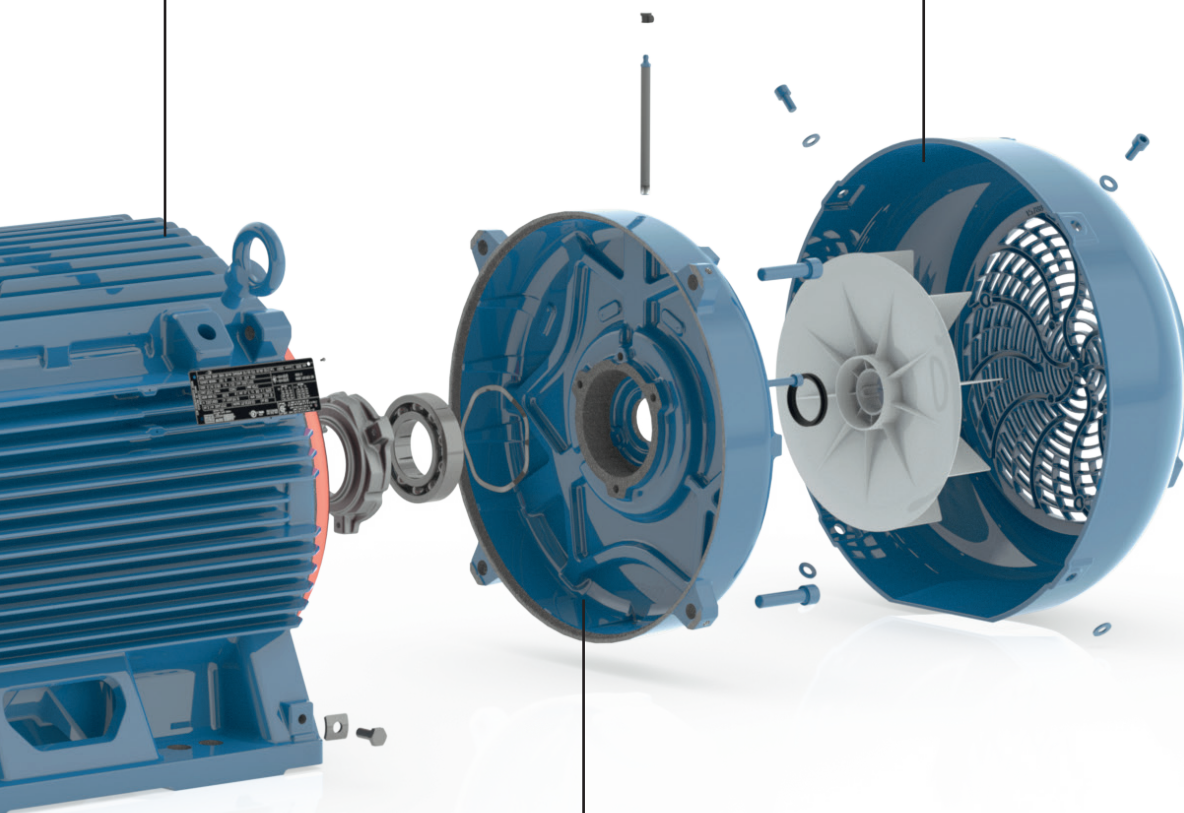
Cooling System

Fan Cover

- Aerodynamic concept .
- Easier assembly.
- Better air flow distribution over frame.
- Provisions for canopy.

Fan

- Reinforced fan hub structure.
- Noise level reduction.
- Increased air flow.



NDE (Non-Drive Endshield)

- Insulated NDE endshield for frames 315S/M to 355A/B to avoid detrimental currents on the bearing, allowing the VFD operation.
- Designed with smooth surface to improve airflow.
- Noise level reduction.
- Structure stiffening to avoid machining deformation.

The scope of WEG Group solutions is not limited to the products and solutions presented in this brochure.

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The values shown are subject to change without prior notice.

The information contained is reference values.