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ACA ALUMINUM HOUSING IE2

DIN EN 60034-30 | High Efficiency (HE)

2 poles, idle speed 3000 rpm

230/400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
80 A-2	0.75 / 0.90	2875 / 3450	77.4	77.4	75.9	0.83	3.0 / 1.7	2.5	6.8	2.3	2.3	0.0008	8.9
80 B-2	1.10 / 1.32	2875 / 3450	79.6	79.6	78.0	0.84	4.2 / 2.4	3.7	7.1	2.3	2.3	0.0009	10.0
90 S-2	1.50 / 1.80	2890 / 3468	81.3	81.3	79.7	0.84	5.6 / 3.2	5.0	7.3	2.3	2.3	0.0012	12.5
90 L-2	2.20 / 2.64	2890 / 3468	83.2	83.2	81.5	0.85	7.9 / 4.6	7.3	7.6	2.3	2.3	0.0015	15.2
100 L-2	3.00 / 3.60	2891 / 3469	84.6	84.6	82.9	0.87	10.4 / 6.0	9.9	7.8	2.2	2.3	0.0028	21.5
112 M-2	4.00 / 4.80	2914 / 3496	85.8	85.8	84.1	0.88	13.5 / 7.8	13.1	8.1	2.2	2.3	0.0050	26.0
132 SA-2	5.50 / 6.60	2937 / 3524	87.0	87.0	85.3	0.86	18.7 / 10.8	17.9	8.2	2.2	2.3	0.0100	38.2
132 SB-2	7.50 / 9.00	2940 / 3528	88.1	88.1	86.3	0.88	24.6 / 14.2	24.4	7.8	2.2	2.3	0.0120	44.0

4 poles, idle speed 1500 rpm

230/400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
80 B-4	0.75 / 0.90	1400 / 1680	79.6	79.6	78.0	0.76	3.2 / 1.8	5.1	6.4	2.3	2.3	0.0022	10.8
90 S-4	1.10 / 1.32	1440 / 1728	81.4	81.4	79.8	0.76	4.5 / 2.6	7.3	6.6	2.3	2.3	0.0024	13.8
90 L-4	1.50 / 1.80	1445 / 1734	82.8	82.8	81.1	0.77	6.0 / 3.4	9.9	6.7	2.3	2.3	0.0030	15.8
100 LA-4	2.20 / 2.64	1440 / 1728	84.3	84.3	82.6	0.81	8.2 / 4.7	14.6	7.3	2.3	2.3	0.0056	22.4
100 LB-4	3.00 / 3.60	1440 / 1728	85.5	85.5	83.8	0.82	10.9 / 6.3	19.9	7.5	2.3	2.3	0.0068	24.0
112 M-4	4.00 / 4.80	1445 / 1734	86.6	86.6	84.9	0.82	14.3 / 8.2	26.4	7.5	2.3	2.3	0.0095	35.0
132 S-4	5.50 / 6.60	1455 / 1746	87.7	87.7	85.9	0.83	19.2 / 11.1	36.1	7.5	2.0	2.3	0.0220	43.0
132 M-4	7.50 / 9.00	1455 / 1746	88.7	88.7	86.9	0.84	25.6 / 14.7	49.2	7.3	2.0	2.3	0.0300	54.0

ACA ALUMINUM HOUSING IE2

DIN EN 60034-30 | High Efficiency (HE)

6 poles, idle speed 1000 rpm

230/400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm ²]	kg
90 S-6	0.75 / 0.90	934 / 1120	75.9	75.9	74.4	0.72	3.5 / 2.0	7.7	5.3	2.0	2.1	0.0030	12.5
90 L-6	1.10 / 1.32	945 / 1134	78.1	78.1	76.5	0.72	5.0 / 2.9	11.1	5.0	2.0	2.1	0.0040	16.6
100 L-6	1.50 / 1.80	945 / 1134	79.8	79.8	78.2	0.72	6.6 / 3.8	15.2	5.5	2.0	2.1	0.0082	22.5
112 M-6	2.20 / 2.64	960 / 1152	81.8	81.8	80.2	0.76	9.0 / 5.2	21.9	5.5	2.0	2.1	0.0140	27.5
132 S-6	3.00 / 3.60	964 / 1156	83.3	83.3	81.6	0.76	12.1 / 6.9	29.7	6.5	2.0	2.1	0.0290	41.5
132 MA-6	4.00 / 4.80	965 / 1158	84.6	84.6	82.9	0.76	15.8 / 9.1	39.6	6.5	2.0	2.1	0.0360	49.0
132 MB-6	5.50 / 6.60	965 / 1158	86.0	86.3	84.3	0.77	21.1 / 12.2	54.4	6.5	2.0	2.1	0.0400	52.5

8 poles, idle speed 750 rpm

230/400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm ²]	kg
100 LA-8	0.75 / 0.90	685 / 822	66.2	66.2	64.9	0.67	4.3 / 2.5	10.5	4.0	1.8	2.0	0.0092	25.2
100 LB-8	1.10 / 1.32	685 / 822	70.8	70.8	69.4	0.69	5.7 / 3.3	15.3	5.0	1.8	2.0	0.0120	26.5
112 M-8	1.50 / 1.80	695 / 834	74.1	74.1	72.6	0.70	7.4 / 4.2	20.6	5.0	1.8	2.0	0.0246	33.5
132 S-8	2.20 / 2.64	710 / 852	77.6	77.6	76.0	0.71	10.2 / 5.8	29.6	6.0	1.8	2.0	0.0315	43.2
132 M-8	3.00 / 3.60	710 / 852	80.0	80.0	78.4	0.73	13.1 / 7.5	40.4	6.0	1.8	2.0	0.0396	51.5

ACM CAST IRON HOUSING IE2

DIN EN 60034-30 | High Efficiency (HE)

2 poles, idle speed 3000 rpm

400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
160 MA-2	11.0 / 13.2	2930 / 3516	89.4	89.4	87.6	0.89	20.0	35.9	7.9	2.2	2.3	0.0385	108
160 MB-2	15.0 / 18.0	2930 / 3516	90.3	90.3	88.5	0.89	26.9	48.9	7.9	2.2	2.3	0.0466	122
160 L-2	18.5 / 22.2	2937 / 3524	90.9	90.9	89.1	0.89	33.0	60.2	8.0	2.2	2.3	0.0550	140
180 M-2	22.0 / 26.4	2940 / 3528	91.3	91.3	89.5	0.88	39.5	71.5	8.1	2.2	2.3	0.0810	178
200 LA-2	30.0 / 36.0	2950 / 3540	92.0	92.0	90.2	0.88	53.5	97.1	7.5	2.0	2.3	0.1250	229
200 LB-2	37.0 / 44.4	2950 / 3540	92.5	92.5	90.7	0.89	64.9	119.8	7.5	2.0	2.3	0.1450	249
225 M-2	45.0 / 54.0	2960 / 3552	92.9	92.9	91.0	0.89	78.6	145.2	7.5	2.2	2.3	0.2280	322
250 M-2	55.0 / 66.0	2965 / 3558	93.2	93.2	91.3	0.90	94.6	177.2	7.6	2.2	2.3	0.3050	401
280 S-2	75.0 / 90.0	2970 / 3564	93.8	93.8	91.9	0.90	126.8	241.2	6.9	1.8	2.3	0.6000	533
280 M-2	90.0 / 108	2970 / 3564	94.1	94.1	92.2	0.91	151.7	289.4	6.9	1.8	2.3	0.6860	568
315 S-2	110 / 132	2975 / 3570	94.3	94.3	92.4	0.91	185.0	353.1	7.0	1.8	2.2	1.1700	914
315 M-2	132 / 158	2975 / 3570	94.6	94.6	92.7	0.91	221.3	423.7	7.0	1.8	2.2	1.8000	1029
315 LA-2	160 / 192	2975 / 3570	94.8	94.8	92.9	0.92	264.8	513.6	7.1	1.8	2.2	2.1200	1067
315 LB-2	200 / 240	2975 / 3570	95.0	95.0	93.1	0.92	330.3	642.0	7.1	1.8	2.2	2.5000	1194
355 M-2	250 / 300	2980 / 3576	95.0	95.0	93.1	0.92	412.9	801.2	7.1	1.6	2.2	3.1000	1597
355 L-2	315 / 378	2980 / 3576	95.0	95.0	93.1	0.92	520.2	1009.5	7.2	1.6	2.2	3.6000	1702

4 poles, idle speed 1500 rpm

400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
160 M-4	11.0 / 13.2	1460 / 1752	89.8	89.8	88.0	0.84	21.0	72.0	6.9	2.1	2.8	0.0740	114
160 L-4	15.0 / 18.0	1460 / 1752	90.6	90.6	88.8	0.85	28.1	98.1	7.5	2.1	2.8	0.0918	136
180 M-4	18.5 / 22.2	1470 / 1764	91.2	91.2	89.4	0.86	34.0	120.2	7.8	2.1	2.8	0.1350	176
180 L-4	22.0 / 26.4	1470 / 1764	91.6	91.6	89.8	0.86	40.3	142.9	7.5	2.1	2.8	0.1600	196
200 L-4	30.0 / 36.0	1470 / 1764	92.3	92.3	90.5	0.86	54.5	194.9	7.1	2.0	2.8	0.2650	259
225 S-4	37.0 / 44.4	1480 / 1776	92.7	92.7	90.8	0.87	66.2	238.8	7.5	2.0	2.5	0.4200	302
225 M-4	45.0 / 54.0	1480 / 1776	93.1	93.1	91.2	0.87	80.2	290.4	7.6	1.8	2.5	0.4700	329
250 M-4	55.0 / 66.0	1480 / 1776	93.5	93.5	91.6	0.87	97.6	354.9	7.3	1.8	2.5	0.6600	418
280 S-4	75.0 / 90.0	1480 / 1776	94.0	94.0	92.1	0.87	132.4	484.0	7.6	1.8	2.2	1.1400	546
280 M-4	90.0 / 108	1480 / 1776	94.2	94.2	92.3	0.87	158.5	580.7	7.5	1.8	2.2	1.4200	638
315 S-4	110 / 132	1485 / 1782	94.5	94.5	92.6	0.88	190.9	707.4	7.1	1.8	2.2	3.4000	939
315 M-4	132 / 158	1485 / 1782	94.7	94.7	92.8	0.88	228.6	848.9	7.3	1.8	2.2	3.5800	1033
315 LA-4	160 / 192	1485 / 1782	94.9	94.9	93.0	0.89	273.4	1029	7.4	1.8	2.2	4.1000	1126
315 LB-4	200 / 240	1485 / 1782	95.1	95.1	93.2	0.89	341.1	1286	7.6	1.8	2.2	4.9000	1229
355 M-4	250 / 300	1490 / 1788	95.1	95.1	93.2	0.90	421.6	1602	7.5	1.8	2.2	6.7000	1670
355 L-4	315 / 378	1490 / 1788	95.1	95.1	93.2	0.90	531.2	2019	7.4	1.8	2.2	8.4000	2848

ACM CAST IRON HOUSING IE2

DIN EN 60034-30 | High Efficiency (HE)

6 poles, idle speed 1000 rpm

400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
160 M-6	7.50 / 9.00	970 / 1164	87.2	87.2	85.5	0.78	15.9	73.8	6.8	2.0	2.1	0.0880	112
160 L-6	11.0 / 13.2	970 / 1164	88.7	88.7	86.9	0.78	22.9	108.3	6.9	2.0	2.1	0.1150	133
180 L-6	15.0 / 18.0	975 / 1170	89.7	89.7	87.9	0.81	29.8	146.9	7.3	2.0	2.1	0.2100	183
200 LA-6	18.5 / 22.2	980 / 1176	90.4	90.4	88.6	0.81	36.5	180.3	7.2	2.0	2.1	0.3100	224
200 LB-6	22.0 / 26.4	980 / 1176	90.9	90.9	89.1	0.83	42.1	214.4	7.3	2.0	2.1	0.3500	240
225 M-6	30.0 / 36.0	980 / 1176	91.7	91.7	89.9	0.84	56.2	292.3	6.8	2.1	2.1	0.5340	285
250 M-6	37.0 / 44.4	980 / 1176	92.2	92.2	90.4	0.86	67.4	360.6	7.0	2.0	2.1	0.8250	389
280 S-6	45.0 / 54.0	980 / 1176	92.7	92.7	90.8	0.86	81.5	438.5	7.2	2.0	2.0	1.3500	489
280 M-6	55.0 / 66.0	980 / 1176	93.1	93.1	91.8	0.86	99.1	536.0	7.2	2.0	2.0	1.6000	550
315 S-6	75.0 / 90.0	985 / 1182	93.7	93.7	93.9	0.86	134.3	727.2	6.5	2.0	2.0	4.0000	838
315 M-6	90.0 / 108	985 / 1182	94.0	94.0	92.1	0.86	160.7	872.6	6.6	2.0	2.0	4.6000	941
315 LA-6	110 / 132	985 / 1182	94.3	94.3	92.5	0.86	195.8	1066	6.6	2.0	2.0	5.2500	986
315 LB-6	132 / 158	985 / 1182	94.6	94.6	92.7	0.87	231.5	1280	6.6	2.0	2.0	6.2000	1121
355 MA-6	160 / 192	990 / 1188	94.8	94.8	92.9	0.88	276.8	1543	6.7	2.0	2.0	9.6000	1650
355 MB-6	200 / 240	990 / 1188	95.0	95.0	93.1	0.88	345.3	1929	6.8	2.0	2.0	10.800	1752
355 L-6	250 / 300	990 / 1188	95.0	95.0	93.1	0.88	431.6	2412	6.8	2.0	2.0	12.500	1990

8 poles, idle speed 750 rpm

400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
160 MA-8	4.00 / 4.80	725 / 870	81.9	81.9	80.3	0.73	9.7	52.7	6.0	1.9	2.0	0.0480	92
160 MB-8	5.50 / 6.60	725 / 870	83.8	83.8	82.1	0.74	12.8	72.4	6.0	1.9	2.0	0.0600	115
160 L-8	7.50 / 9.00	725 / 870	85.3	85.3	83.6	0.75	16.9	98.8	6.0	1.9	2.0	0.0708	124
180 L-8	11.0 / 13.2	735 / 882	86.9	86.9	85.2	0.75	24.4	142.9	6.5	2.0	2.0	0.1116	180
200 L-8	15.0 / 18.0	730 / 876	88.0	88.0	86.2	0.76	32.4	196.2	6.6	2.0	2.0	0.1680	213
225 S-8	18.5 / 22.2	730 / 876	88.6	88.6	86.8	0.76	39.7	242.0	6.6	1.9	2.0	0.1956	263
225 M-8	22.0 / 26.4	730 / 876	89.1	89.1	87.3	0.78	45.7	287.8	6.6	1.9	2.0	0.2940	301
250 M-8	30.0 / 36.0	735 / 882	89.8	89.8	88.0	0.79	61.0	389.8	6.5	1.9	2.0	0.3960	394
280 S-8	37.0 / 44.4	735 / 882	90.3	90.3	88.5	0.79	74.9	480.7	6.6	1.9	2.0	0.7800	480
280 M-8	45.0 / 54.0	735 / 882	90.7	90.7	88.9	0.79	90.6	584.7	6.6	1.9	2.0	0.8520	539
315 S-8	55.0 / 66.0	735 / 882	91.0	91.0	89.2	0.81	108.0	714.6	6.6	1.8	2.0	1.5600	820
315 M-8	75.0 / 90.0	735 / 882	91.6	91.6	89.8	0.81	146.0	974.5	6.2	1.8	2.0	2.4000	916
315 LA-8	90.0 / 108	735 / 882	91.9	91.9	90.1	0.82	172.0	1169	6.4	1.8	2.0	2.8200	1000
315 LB-8	110 / 132	735 / 882	92.3	92.3	90.5	0.82	210.0	1429	6.4	1.8	2.0	3.2400	1015
355 MA-8	132 / 158	740 / 888	92.6	92.6	90.7	0.82	251.0	1703	6.4	1.8	2.0	4.0800	1715
355 MB-8	160 / 192	740 / 888	93.0	93.0	91.1	0.82	303.0	2065	6.4	1.8	2.0	4.6800	1866
355 L-8	200 / 240	740 / 888	93.5	93.5	91.6	0.83	372.0	2518	6.4	1.8	2.0	4.0800	1948

IE1 ALUMINUM SERIES

“SMALL MOTORS”

Due to their power output these motors are not covered by the IE2 standard.
This standard only covers power outputs of 0.75 kW – 375 kW.

2 poles, idle speed 3000 rpm

230 V / 50 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
56 A-2	0.09 / 0.12	2750 / 3300	62.0	-	-	0.70	0.53	0.31	5.2	2.1	2.2	0.00	3.4
56 B-2	0.12 / 0.14	2800 / 3360	64.0	-	-	0.78	0.61	0.41	5.2	2.1	2.2	0.00	3.7
63 A-2	0.18 / 0.21	2800 / 3360	66.0	-	-	0.80	0.87	0.61	5.5	2.2	2.3	0.00	4.3
63 B-2	0.25 / 0.30	2800 / 3360	69.0	-	-	0.81	1.14	0.85	5.5	2.2	2.3	0.00	4.4
71 A-2	0.37 / 0.44	2800 / 3360	70.0	-	-	0.81	1.66	1.26	6.1	2.3	2.4	0.00	5.3
71 B-2	0.55 / 0.66	2740 / 3288	73.0	-	-	0.82	2.34	1.92	6.1	2.2	2.3	0.00	6.2

4 poles, idle speed 1500 rpm

230 V / 50 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
56 A-4	0.06 / 0.07	1340 / 1608	56.0	-	-	0.69	0.40	0.43	4.0	2.0	2.1	0.00	3.6
56 B-4	0.09 / 0.11	1340 / 1608	58.0	-	-	0.70	0.56	0.64	4.0	2.0	2.1	0.00	3.9
63 A-4	0.12 / 0.14	1360 / 1632	59.0	-	-	0.72	0.72	0.84	4.4	2.1	2.2	0.00	4.2
63 B-4	0.18 / 0.22	1360 / 1632	59.0	-	-	0.73	1.06	1.26	4.4	2.1	2.2	0.00	4.5
71 A-4	0.25 / 0.30	1380 / 1656	67.3	-	-	0.74	1.28	1.73	5.2	2.1	2.2	0.00	5.3
71 B-4	0.37 / 0.44	1380 / 1656	70.0	-	-	0.75	1.79	2.56	5.2	2.1	2.2	0.00	6.1
80 A-4	0.55 / 0.66	1390 / 1668	71.1	-	-	0.75	2.63	3.78	5.2	2.3	2.3	0.00	8.1

6 poles, idle speed 1000 rpm

230 V / 50 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to Rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
63 A-6	0.09 / 0.12	840 / 1008	44.0	-	-	0.60	0.87	1.02	3.5	1.8	1.9	0.00	4.5
63 B-6	0.12 / 0.18	850 / 1020	48.0	-	-	0.60	1.06	1.35	3.5	1.8	1.9	0.00	4.6
71 A-6	0.18 / 0.22	900 / 1080	57.0	-	-	0.66	1.22	1.91	4.0	1.9	2.0	0.00	6.5
71 B-6	0.25 / 0.30	900 / 1080	60.0	-	-	0.68	1.56	2.65	4.0	1.9	2.0	0.00	6.7
80 A-6	0.37 / 0.44	900 / 1080	63.0	-	-	0.70	2.14	3.93	4.7	1.9	2.0	0.00	8.5
80 B-6	0.55 / 0.66	885 / 1062	65.0	-	-	0.72	2.99	5.94	4.7	1.9	2.1	0.00	9.4

IE1 ACA ALUMINUM SERIES AND ACM CAST IRON MOTORS

8 poles, idle speed 750 rpm

400 V / 50 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos ϕ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm ²]	kg
80 A-8	0.18 / 0.21	690 / 828	38.0	-	-	0.61	1.1	2.5	3.3	1.8	1.9	0.00	8.5
80 B-8	0.25 / 0.30	690 / 828	43.3	-	-	0.61	1.4	3.5	3.3	1.8	1.9	0.00	9.0
90 S-8	0.37 / 0.44	690 / 828	49.7	-	-	0.61	1.8	5.1	4.0	1.8	1.9	0.01	12.6
90 L-8	0.55 / 0.66	690 / 828	56.1	-	-	0.61	2.3	7.6	4.0	1.8	2.0	0.01	15.3
100 LA-8	0.75 / 0.90	700 / 840	61.2	-	-	0.67	2.6	10.2	4.0	1.8	2.0	0.01	21.0
100 LB-8	1.10 / 1.32	700 / 840	66.5	-	-	0.69	3.5	15.0	5.0	1.8	2.0	0.01	22.0
112 M-8	1.50 / 1.80	700 / 840	70.2	-	-	0.69	4.4	20.5	5.0	1.8	2.0	0.02	28.0
132 S-8	2.20 / 2.64	710 / 852	74.2	-	-	0.72	6	29.6	6.0	1.8	2.0	0.03	36.0
132 M-8	3.00 / 3.60	710 / 852	77.0	-	-	0.74	7.7	40.4	6.0	1.8	2.0	0.04	43.0

8 poles, idle speed 750 rpm

400 V / 50 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to Rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos ϕ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm ²]	kg
160 MA-8	4.0 / 4.8	720 / 864	79.2	-	-	0.73	10.0	53.1	6.0	1.9	2.0	0.08	91.0
160 MB-8	5.5 / 6.6	720 / 864	81.4	-	-	0.74	13.2	73.0	6.0	2.0	2.0	0.09	103
160 L-8	7.5 / 9.0	720 / 864	83.1	-	-	0.75	17.4	99.5	6.0	2.0	2.0	0.13	124
180 L-8	11.0 / 13.2	730 / 876	85.0	-	-	0.76	24.6	143.9	6.0	2.0	2.0	0.20	165
200 L-8	15.0 / 18.0	730 / 876	86.2	-	-	0.76	33.0	196.2	6.6	2.0	2.0	0.40	225
225 S-8	18.5 / 22.2	730 / 876	86.9	-	-	0.76	40.4	242.0	6.6	1.9	2.0	0.49	256
225 M-8	22.0 / 26.4	730 / 876	87.4	-	-	0.78	46.6	287.8	6.6	1.9	2.0	0.55	275
250 M-8	30.0 / 36.0	735 / 882	88.3	-	-	0.79	62.1	389.8	6.6	1.9	2.0	0.83	350
280 S-8	37.0 / 44.4	735 / 882	88.8	-	-	0.79	76.1	480.7	6.6	1.9	2.0	1.93	472
280 M-8	45.0 / 54.0	735 / 882	89.2	-	-	0.79	92.2	584.7	6.6	1.8	2.0	3.65	520
315 S-8	55.0 / 66.0	735 / 882	89.7	-	-	0.81	109.0	714.6	6.6	1.8	2.0	6.37	815
315 M-8	75.0 / 90.0	735 / 882	90.3	-	-	0.81	148.0	974.5	6.6	1.8	2.0	7.23	906
315 LA-8	90.0 / 108	735 / 882	90.7	-	-	0.82	175.0	1169	6.6	1.8	2.0	4.79	987
315 LB-8	110 / 132	735 / 882	91.1	-	-	0.82	213.0	1429	6.4	1.8	2.0	5.58	995
355 MA-8	132 / 158	740 / 888	91.5	-	-	0.82	254.0	1704	6.4	1.8	2.0	7.90	1700
355 MB-8	160 / 192	740 / 888	91.9	-	-	0.82	306.0	2065	6.4	1.8	2.0	10.30	1850
355 L-8	200 / 240	740 / 888	92.5	-	-	0.83	376.0	2581	6.4	1.8	2.0	12.30	1930

PROGRESSIVE

IE3 motors with increased power in a smaller housing

2 poles, idle speed 3000 rpm

400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to Rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
80 C-2	1.50	2890	84.2	84.2	82.5	0.84	3.1	5.0	7.6	2.3	2.3	0.00110	11.6
90 LC-2	3.00	2890	87.1	87.1	85.4	0.87	5.7	9.9	8.1	2.3	2.3	0.00260	20.4
100 LC-2	4.00	2895	88.1	88.1	86.3	0.88	7.4	13.2	8.3	2.3	2.3	0.00450	23.7
112 MC-2	5.50	2920	89.2	89.4	87.4	0.88	10.1	18.0	8.0	2.2	2.3	0.00690	30.2
132 MC-2	11.0	2940	91.2	91.2	89.4	0.90	19.3	35.7	7.9	2.2	2.3	0.01700	71.2
160 LC-2	22.0	2950	92.7	92.7	90.8	0.90	38.1	71.2	8.2	2.2	2.3	0.06000	187
180 MC-2	30.0	2950	93.3	93.3	91.4	0.89	52.1	97.1	7.5	2.2	2.3	0.09300	235

4 poles, idle speed 1500 rpm

400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to Rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
80 C-4	1.10	1430	84.1	84.1	82.4	0.74	2.6	7.3	6.5	2.3	2.3	0.00240	12.9
90 LC-4	2.20	1430	86.7	86.7	85.0	0.78	4.7	14.7	6.9	2.3	2.3	0.00530	19.7
100 LC-4	4.00	1435	88.6	88.6	86.8	0.80	8.1	26.6	7.6	2.3	2.3	0.00950	31.3
112 MC-4	5.50	1450	89.6	89.6	87.8	0.80	11.1	36.2	7.7	2.0	2.3	0.01100	39.2
132 MC-4	11.0	1460	91.4	91.4	89.6	0.84	21.2	72.0	7.4	2.2	2.3	0.03950	58.2
160 LC-4	18.5	1465	92.6	92.6	90.7	0.84	33.4	120.6	7.5	2.2	2.3	0.09800	182
180 MC-4	22.0	1465	93.0	93.0	91.1	0.85	40.2	143.4	7.7	2.2	2.3	0.16000	231
180 LC-4	30.0	1470	93.6	93.6	91.7	0.86	53.8	194.9	7.8	2.2	2.3	0.18200	225
200 LC-4	37.0	1475	93.9	93.9	92.0	0.86	66.1	239.6	7.5	2.1	2.3	0.31000	331
225 MC-4	55.0	1480	94.6	94.6	92.7	0.86	97.6	354.9	7.5	2.2	2.3	0.60000	443
250 MC-4	75.0	1480	95.0	95.0	93.1	0.87	131.0	484.0	7.5	2.2	2.3	0.81000	553
280 MC-4	110.0	1485	95.4	95.4	93.5	0.88	189.1	707.5	7.5	2.0	2.3	1.70000	835
315 MC-4	200.0	1485	96.0	96.0	94.1	0.90	334.1	1286	7.5	2.0	2.3	5.00000	1336

PROGRESSIVE

IE3 motors with increased power in a smaller housing

6 poles, idle speed 1000 rpm

400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to Rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm ²]	kg
90 LC-6	1.50	945	82.5	82.5	80.9	0.69	3.8	15.2	6.0	2.1	2.1	0.00720	26.6
100 LC-6	2.20	952	84.3	84.3	82.6	0.71	5.3	22.1	6.0	2.1	2.2	0.01300	33.5
112 MC-6	3.00	965	85.6	85.6	83.9	0.71	7.1	29.7	6.2	2.0	2.1	0.02000	38.3
112 MD-6	4.00	965	86.8	86.8	85.1	0.71	9.4	39.6	6.8	2.0	2.1	0.02500	54.1
132 MC-6	5.50	965	88.0	88.0	86.2	0.75	12.0	54.4	7.1	2.0	2.1	0.05100	68.9
132 MC-6	7.50	968	89.1	89.1	87.3	0.77	15.8	74.0	6.7	2.1	2.1	0.05100	72.4
160 LC-6	15.0	968	91.2	91.2	89.4	0.81	29.3	148.0	7.2	2.0	2.1	0.12100	143
180 LC-6	18.5	977	91.7	91.7	89.9	0.81	35.0	180.8	7.2	2.1	2.1	0.25300	250
280 MC-6	75.0	990	94.6	94.6	92.7	0.86	133.1	723.6	7.3	2.0	2.1	1.95000	713

PROGRESSIVE

IE2 motors with increased power in a smaller housing

2 poles, idle speed 3000 rpm

400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to Rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
80 C-2	1.50	2850	81.3	81.6	79.7	0.84	3.2	5.0	6.5	2.2	2.3	0.0011	13.0
90 LC-2	3.00	2850	84.6	84.9	82.9	0.87	5.9	10.1	7.0	2.2	2.3	0.0026	17.0
100 LC-2	4.00	2870	85.8	86.1	84.1	0.88	7.6	13.3	7.5	2.2	2.3	0.0048	22.5
112 MC-2	5.50	2900	87.0	87.3	85.3	0.88	10.4	18.1	7.5	2.2	2.3	0.0069	30.5
132 MC-2	11.0	2910	89.4	89.8	87.6	0.89	20.0	36.1	7.8	2.2	2.3	0.0170	49.0
160 LC-2	22.0	2940	91.3	91.7	89.5	0.89	39.1	71.5	7.8	2.2	2.3	0.0600	145
180 MC-2	30.0	2940	92.0	92.4	90.2	0.89	52.9	97.5	7.5	2.0	2.3	0.0930	190
200 LC-2	45.0	2960	92.9	93.3	91.0	0.90	77.7	145.2	7.8	2.2	2.3	0.1680	290
225 MC-2	55.0	2960	93.2	93.6	91.3	0.90	94.6	177.5	7.5	2.1	2.3	0.2570	320
250 MC-2	75.0	2970	93.8	94.2	91.9	0.90	128.2	241.2	7.2	2.1	2.3	0.3500	432
280 MC-2	110.0	2975	94.3	94.7	92.4	0.90	187.1	353.2	7.5	2.0	2.3	0.7270	800

4 poles, idle speed 1500 rpm

400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to Rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
80 C-4	1.10	1400	81.4	81.7	79.8	0.77	2.5	7.5	6.5	2.2	2.3	0.0024	10.3
90 LC-4	2.20	1420	84.3	84.6	82.6	0.81	4.7	14.8	7.0	2.2	2.3	0.0053	20.3
100 LC-4	4.00	1435	86.6	86.9	84.9	0.82	8.1	26.6	7.0	2.2	2.3	0.0095	30.5
112 MC-4	5.50	1440	87.7	88.0	85.9	0.82	11.0	36.5	7.5	2.2	2.3	0.0110	36.5
132 MC-4	11.0	1460	89.8	90.1	88.0	0.84	21.0	72.0	7.5	2.2	2.3	0.0395	56.0
160 LC-4	18.5	1460	91.2	91.5	89.4	0.86	33.1	121.0	7.5	2.1	2.3	0.0980	150
180 MC-4	22.0	1460	91.6	91.9	89.8	0.86	40.3	143.9	7.5	2.2	2.3	0.1600	134
180 LC-4	30.0	1470	92.3	92.6	90.5	0.86	54.5	194.9	7.5	2.2	2.3	0.1820	205
200 LC-4	37.0	1470	92.7	93.0	90.8	0.86	67.0	240.4	7.5	2.2	2.3	0.2950	280
225 MC-4	55.0	1470	93.5	93.8	91.6	0.86	98.7	357.4	7.2	2.2	2.3	0.5300	346
250 MC-4	75.0	1480	94.0	94.3	92.1	0.87	132.4	484.0	7.2	2.2	2.3	0.7200	440
280 MC-4	110.0	1485	94.5	94.8	92.6	0.88	190.9	707.5	7.2	2.2	2.3	1.5900	830
315 MC-4	200.0	1485	95.1	95.4	93.2	0.89	341.1	1286.4	7.5	2.2	2.3	4.9000	1150

PROGRESSIVE

IE2 motors with increased power in a smaller housing

6 poles, idle speed 1000 rpm

400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to Rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm ²]	kg
90 LC-6	1.50	920	79.8	80.0	78.2	0.74	3.7	15.6	6.0	2.0	2.1	0.0072	20.5
100 LC-6	2.20	940	81.8	82.0	80.2	0.74	5.2	22.4	6.5	2.1	2.2	0.0130	25.0
112 MC-6	3.00	940	83.3	83.5	81.6	0.76	6.8	30.5	6.5	2.0	2.1	0.0200	39.0
112 MD-6	4.00	950	84.6	84.9	82.9	0.76	9.0	40.2	6.5	2.0	2.1	0.0250	46.0
132 MC-6	7.50	960	87.2	87.5	85.5	0.77	16.1	74.6	6.5	2.1	2.1	0.0510	65.0
160 LC-6	15.0	965	89.7	90.0	87.9	0.79	30.6	148.5	7.0	2.1	2.1	0.1210	160
180 LC-6	18.5	975	90.4	90.7	88.6	0.81	35.5	151.2	7.0	2.2	2.1	0.2530	203
200 LC-6	30.0	975	91.7	92.1	89.9	0.82	57.6	293.9	7.0	2.1	2.1	0.4200	450
250 MC-6	45.0	980	92.7	93.0	90.8	0.85	82.4	438.6	7.0	2.1	2.1	1.0500	580
280 MC-6	75.0	985	93.7	94.0	91.8	0.86	134.3	727.2	7.0	2.1	2.1	1.9800	270

DOUBLE-SPEED MOTORS

Double-speed pole-changing motors for quadratically increasing counter torque
(aluminum housing)

2-4 poles, idle torque 3000/1500 rpm

400 V / 50 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm ²]	kg
80 A-2-4	0.75 / 0.17	2825 / 1360	72.0 / 61.0	-	-	0.81 / 0.50	1.9 / 0.8	2.5 / 1.1	6.5 / 5.0	1.6 / 1.6	2.0	0.0009	16.0
80 B-2-4	0.95 / 0.25	2825 / 1380	74.0 / 66.0	-	-	0.80 / 0.61	2.3 / 0.9	3.2 / 1.7	7.5 / 5.5	2.0 / 1.4	1.8	0.0010	18.0
90 S-2-4	1.4 / 0.3	2840 / 1380	80.0 / 69.0	-	-	0.82 / 0.57	3.1 / 1.1	4.7 / 2.0	7.5 / 5.5	2.0 / 1.4	1.8	0.0013	23.0
90 L-2-4	1.9 / 0.4	2840 / 1380	80.0 / 69.0	-	-	0.82 / 0.57	4.2 / 1.5	6.3 / 2.7	7.5 / 5.5	2.0 / 1.4	1.8	0.0015	26.0
100 LA-2-4	2.5 / 0.65	2840 / 1400	81.0 / 69.0	-	-	0.89 / 0.70	5.0 / 1.9	8.4 / 4.4	7.5 / 5.5	1.8 / 1.2	1.8	0.0030	36.0
100 LB-2-4	3.1 / 0.8	2880 / 1400	83.0 / 73.0	-	-	0.89 / 0.70	6.1 / 2.3	10.2 / 5.4	7.5 / 5.5	1.8 / 1.3	1.8	0.0038	36.0
112 M-2-4	4.4 / 1.1	2915 / 1445	84.0 / 76.0	-	-	0.87 / 0.69	8.7 / 3.0	14.4 / 7.3	7.5 / 5.5	1.4 / 1.4	1.8	0.0072	42.0
132 S-2-4	5.9 / 1.4	2895 / 1395	83.0 / 77.0	-	-	0.90 / 0.74	11.4 / 3.6	19.5 / 9.6	7.5 / 5.5	1.9 / 1.3	1.8	0.0120	68.0
132 M-2-4	8.0 / 2.0	2900 / 1420	85.0 / 79.0	-	-	0.91 / 0.78	14.9 / 4.7	26.3 / 13.5	7.5 / 5.5	1.9 / 1.3	1.8	0.0160	79.0

4-6 poles, idle torque 1500/1000 rpm

400 V / 50 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm ²]	kg
80 A-4-6	0.4 / 0.12	1415 / 925	67.0 / 50.0	-	-	0.66 / 0.50	1.3 / 0.7	2.7 / 1.2	6.0 / 4.7	1.9 / 1.9	2.3	0.0021	15.0
80 B-4-6	0.55 / 0.18	1390 / 885	71.0 / 50.0	-	-	0.76 / 0.60	1.5 / 0.9	3.8 / 1.9	6.0 / 6.0	2.0 / 1.6	2.2	0.0023	16.0
90 S-4-6	1.1 / 0.32	1430 / 960	76.0 / 59.0	-	-	0.78 / 0.46	2.7 / 1.7	7.3 / 3.2	6.0 / 6.0	1.5 / 1.5	2.0	0.0029	24.0
90 L-4-6	1.4 / 0.45	1395 / 935	72.0 / 62.0	-	-	0.84 / 0.66	3.3 / 1.6	9.6 / 4.6	6.5 / 6.0	1.3 / 1.3	1.8	0.0035	26.0
100 LA-4-6	2.2 / 0.7	1420 / 910	77.0 / 65.0	-	-	0.76 / 0.66	5.4 / 2.4	14.8 / 7.4	6.5 / 6.0	1.5 / 1.5	1.8	0.0067	36.0
100 LB-4-6	2.5 / 0.9	1420 / 910	81.0 / 74.0	-	-	0.78 / 0.67	5.7 / 2.6	16.8 / 9.4	7.0 / 6.0	1.8 / 1.6	1.8	0.0071	36.0
112 M-4-6	3.2 / 1.1	1440 / 960	82.0 / 78.0	-	-	0.82 / 0.68	6.9 / 3.0	21.2 / 10.9	7.0 / 6.0	1.8 / 1.6	1.8	0.0095	42.0
132 S-4-6	4.7 / 1.5	1440 / 940	81.0 / 73.0	-	-	0.83 / 0.64	10.1 / 4.7	31.2 / 15.2	7.0 / 6.0	1.8 / 1.6	1.8	0.0214	68.0
132 M-4-6	6.7 / 2.2	1440 / 940	84.0 / 75.0	-	-	0.87 / 0.70	13.2 / 6.0	44.4 / 22.3	6.5 / 6.0	1.3 / 1.3	1.8	0.0320	79.0

DOUBLE-SPEED MOTORS

Double-speed pole-changing motors for quadratically increasing counter torque
(aluminum housing)

4-8 poles, idle torque 1500/750 rpm

400 V / 50 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm ²]	kg
80 A-4-8	0.5 / 0.1	1420 / 660	74.0 / 36.0	-	-	0.70 / 0.43	1.4 / 0.9	3.3 / 1.4	5.5 / 4.5	1.4 / 1.8	2.0	0.0021	15.0
80 B-4-8	0.7 / 0.15	1390 / 655	74.0 / 43.0	-	-	0.77 / 0.50	1.8 / 1.0	4.8 / 2.1	5.5 / 4.5	1.5 / 1.3	1.8	0.0026	16.0
90 S-4-8	1.0 / 0.22	1395 / 670	75.0 / 60.0	-	-	0.82 / 0.60	2.3 / 0.9	6.8 / 3.1	6.0 / 4.5	1.5 / 1.5	1.8	0.0029	23.0
90 L-4-8	1.5 / 0.3	1395 / 695	78.0 / 57.0	-	-	0.84 / 0.49	3.3 / 1.5	10.3 / 4.1	7.0 / 5.0	1.8 / 1.5	1.8	0.0037	26.0
100 LA-4-8	2.0 / 0.55	1445 / 700	80.0 / 65.0	-	-	0.80 / 0.61	4.5 / 2.0	13.2 / 7.6	7.5 / 5.0	1.9 / 1.5	1.8	0.0061	36.0
100 LB-4-8	2.4 / 0.65	1435 / 695	80.0 / 65.0	-	-	0.79 / 0.59	5.5 / 2.45	15.9 / 8.9	6.0 / 6.0	1.8 / 1.6	1.8	0.0067	36.0
112 M-4-8	3.2 / 0.9	1450 / 710	84.0 / 73.0	-	-	0.77 / 0.56	7.1 / 3.2	21.0 / 12.1	7.5 / 5.0	2.0 / 1.6	2.2	0.0095	42.0
132 S-4-8	4.5 / 1.1	1460 / 730	86.0 / 78.0	-	-	0.81 / 0.57	9.3 / 3.6	29.4 / 14.4	7.5 / 5.0	1.8 / 1.3	2.0	0.0214	68.0
132 M-4-8	6.3 / 1.5	1450 / 720	87.0 / 80.0	-	-	0.85 / 0.60	12.3 / 4.5	41.5 / 19.9	7.0 / 6.0	1.8 / 1.6	1.8	0.0296	79.0

DOUBLE-SPEED MOTORS

Double-speed pole-changing motors for quadratically increasing counter torque
(cast iron housing)

2-4 poles, idle torque 3000/1500 rpm

400 V / 50 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
160 M-2-4	12.5 / 2.8	2930 / 1420	85.0 / 80.0	-	-	0.90 / 0.75	23.6 / 6.7	40.7 / 13.5	7.5 / 5.5	1.8 / 1.3	1.8	0.0410	148
160 L-2-4	16.5 / 3.8	2930 / 1440	87.0 / 82.0	-	-	0.91 / 0.76	30.1 / 8.8	38 / 25.2	7.5 / 5.5	1.8 / 1.3	1.8	0.0550	160
180 M-2-4	20.0 / 5.5	2930 / 1440	87.0 / 82.0	-	-	0.89 / 0.74	37.3 / 13.1	65.2 / 36.5	7.0 / 5.5	1.6 / 1.5	1.8	0.0750	185
180 L-2-4	24.0 / 6.4	2940 / 1440	88.0 / 82.0	-	-	0.89 / 0.72	44.2 / 15.6	78.0 / 42.4	7.5 / 6.5	1.8 / 1.6	1.8	0.0850	200
200 L-2-4	30.0 / 7.8	2955 / 1475	87.0 / 82.0	-	-	0.89 / 0.72	55.9 / 19.1	96.9 / 50.5	7.5 / 6.5	1.8 / 1.6	1.8	0.1390	265
225 S-2-4	37.0 / 9.5	2950 / 1460	87.0 / 82.0	-	-	0.89 / 0.72	69.0 / 23.2	120 / 62.1	7.0 / 6.5	1.8 / 1.6	1.8	0.2050	290
225 M-2-4	45.0 / 12.0	2970 / 1485	89.0 / 84.0	-	-	0.89 / 0.72	82.0 / 28.6	145 / 77.2	7.0 / 6.5	1.8 / 1.6	1.8	0.2260	320
250 M-2-4	55.0 / 15.0	2970 / 1480	90.0 / 85.0	-	-	0.89 / 0.75	99.1 / 34	177 / 97	7.0 / 6.5	1.4 / 1.4	1.8	0.2950	425
280 S-2-4	75.0 / 20.0	2975 / 1485	89.0 / 84.0	-	-	0.89 / 0.74	136.7 / 46.4	241 / 129	7.0 / 6.5	1.4 / 1.4	1.8	0.5850	550
280 M-2-4	90.0 / 24.0	2980 / 1485	89.0 / 84.0	-	-	0.88 / 0.71	166 / 58.1	288 / 154	7.0 / 6.5	1.4 / 1.4	1.8	0.6750	660

4-6 poles, idle torque 1500/1000 rpm

400 V / 50 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
160 M-4-6	9.5 / 3.1	1450 / 970	85.0 / 80.0	-	-	0.82 / 0.75	19.7 / 7.5	62.6 / 30.5	7.5 / 6.0	2.2 / 1.8	2.0	0.8810	148
160 L-4-6	12.0 / 4.0	1460 / 960	87.0 / 83.0	-	-	0.85 / 0.68	23.4 / 10.4	78.5 / 39.8	6.5 / 6.0	1.3 / 1.3	1.8	0.0116	166
180 M-4-6	15.5 / 5.1	1460 / 970	88.0 / 81.0	-	-	0.89 / 0.68	28.6 / 13.4	101 / 50.2	7.5 / 7.5	1.5 / 1.5	1.8	0.2150	185
180 L-4-6	18.5 / 6.2	1470 / 970	87.0 / 81.0	-	-	0.85 / 0.74	36.1 / 14.9	120 / 61	7.5 / 7.0	1.5 / 1.5	1.8	0.2350	200
200 L-4-6	26.0 / 8.70	1480 / 970	89.0 / 82.0	-	-	0.90 / 0.79	46.9 / 19.4	168 / 85.6	7.5 / 7.5	1.5 / 1.5	1.8	0.3850	265
225 S-4-6	33.0 / 11.0	1460 / 980	89.0 / 84.0	-	-	0.89 / 0.82	60.1 / 23.1	216 / 107	7.0 / 6.5	1.5 / 1.5	1.8	0.5650	290
225 M-4-6	39.0 / 13.0	1480 / 970	90.0 / 85.0	-	-	0.86 / 0.85	72.7 / 26	252 / 128	7.5 / 7.0	1.5 / 1.5	1.8	0.6750	320
250 M-4-6	47.0 / 16.0	1480 / 970	90.0 / 85.0	-	-	0.89 / 0.87	84.7 / 31.2	303 / 158	7.5 / 7.0	1.5 / 1.5	1.8	0.8950	425
280 S-4-6	55.0 / 18.5	1480 / 990	90.0 / 85.0	-	-	0.88 / 0.86	100.2 / 36.5	355 / 178	7.5 / 7.0	1.5 / 1.5	1.8	1.5950	550
280 M-4-6	70.0 / 25.0	1480 / 990	91.0 / 89.0	-	-	0.88 / 0.87	126.2 / 46.6	452 / 241	7.0 / 6.0	1.5 / 1.5	1.8	1.9800	660

DOUBLE-SPEED MOTORS

Double-speed pole-changing motors for quadratically increasing counter torque
(cast iron housing)

4-8 poles, idle torque 1500/750 rpm

400 V / 50 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm ²]	kg
160 M-4-8	8.9 / 2.0	1445 / 720	85.0 / 82.0	-	-	0.85 / 0.67	17.8 / 5.2	58.8 / 26.5	7.5 / 5.0	2.0 / 1.2	1.8	0.0930	148
160 L-4-8	12.0 / 2.7	1445 / 720	85.0 / 82.0	-	-	0.85 / 0.67	24.0 / 7.0	79.3 / 35.8	7.5 / 5.0	2.0 / 1.2	1.8	0.1260	160
180 M-4-8	16.0 / 4.0	1470 / 730	88.0 / 84.0	-	-	0.85 / 0.65	30.9 / 10.6	104 / 52.3	7.5 / 5.0	2.0 / 1.2	1.8	0.1530	185
180 L-4-8	19.5 / 5.0	1470 / 720	89.0 / 85.0	-	-	0.85 / 0.66	37.2 / 12.9	127 / 66.3	7.5 / 5.0	2.0 / 1.2	1.8	0.1710	200
200 L-4-8	29.0 / 7.5	1480 / 730	90.0 / 87.0	-	-	0.85 / 0.66	54.7 / 18.9	187 / 98.1	7.5 / 5.0	2.0 / 1.2	1.8	0.2980	265
225 M-4-8	40.0 / 9.5	1480 / 720	91.0 / 88.0	-	-	0.88 / 0.64	72.1 / 24.3	258 / 126	7.5 / 5.0	2.0 / 1.3	1.8	0.4880	320
250 M-4-8	52.0 / 14.5	1480 / 740	92.0 / 88.0	-	-	0.86 / 0.64	97.1 / 37.8	336 / 187	7.5 / 5.0	1.8 / 1.5	1.8	0.6950	425
280 S-4-8	65.0 / 17.0	1490 / 740	91.0 / 89.0	-	-	0.87 / 0.68	119 / 40.5	417 / 219	7.5 / 5.0	2.0 / 1.3	1.8	1.2000	550
280 M-4-8	75.0 / 18.5	1490 / 740	91.0 / 89.0	-	-	0.87 / 0.68	137 / 44.1	481 / 239	7.5 / 5.0	2.0 / 1.3	1.8	1.3200	660

SINGLE-PHASE MOTORS

Single-phase motors with operating capacitor

2 poles, idle speed 3000 rpm

230 V / 50 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm ²]	kg
ABS 63 A-2	0.18	2800	60.0	-	-	0.92	1.48	0.61	3.4	0.40	1.7	0.00074	3.9
ABS 63 B-2	0.25	2800	63.0	-	-	0.92	1.96	0.85	3.6	0.40	1.7	0.00089	4.4
ABS 71 A-2	0.37	2800	67.0	-	-	0.92	2.73	1.26	3.7	0.35	1.7	0.00139	6.2
ABS 71 B-2	0.55	2800	70.0	-	-	0.92	3.88	1.88	3.9	0.35	1.7	0.00172	6.5
ABS 80 A-2	0.75	2800	72.0	-	-	0.92	5.15	2.56	3.9	0.33	1.7	0.00366	8.3
ABS 80 B-2	1.10	2800	75.0	-	-	0.95	7.02	3.75	4.3	0.33	1.7	0.00457	9.0
ABS 90 S-2	1.50	2800	76.0	-	-	0.95	9.44	5.12	4.8	0.33	1.7	0.00723	13.0
ABS 90 L-2	2.20	2800	78.0	-	-	0.95	13.67	7.50	4.8	0.33	1.7	0.00964	15.0

4 poles, idle speed 1500 rpm

230 V / 50 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm ²]	kg
ABS 63 A-4	0.12	1400	55.0	-	-	0.90	1.10	0.82	3.2	0.40	1.7	0.00129	4.0
ABS 63 B-4	0.18	1400	56.0	-	-	0.90	1.62	1.23	3.1	0.40	1.7	0.00181	4.5
ABS 71 A-4	0.25	1400	61.0	-	-	0.92	2.02	1.71	3.5	0.35	1.7	0.00281	6.1
ABS 71 B-4	0.37	1400	62.0	-	-	0.92	3.88	2.52	3.4	0.35	1.7	0.00358	7.0
ABS 80 A-4	0.55	1400	64.0	-	-	0.92	4.25	3.75	3.5	0.35	1.7	0.00596	9.5
ABS 80 B-4	0.75	1400	68.0	-	-	0.92	5.45	5.12	3.7	0.33	1.7	0.00769	10.0
ABS 90 S-4	1.10	1400	71.0	-	-	0.95	7.45	7.50	4.0	0.32	1.7	0.01728	13.0
ABS 90 L-4	1.50	1400	73.0	-	-	0.95	9.83	10.2	4.6	0.33	1.7	0.01481	16.0
ABS 100 L-4	2.20	1400	76.0	-	-	0.95	13.80	15.0	4.7	0.35	1.7	0.03901	23.0

SINGLE-PHASE MOTORS

Single-phase motors with starting and operating capacitors

2 poles, idle speed 3000 rpm

230 V / 50 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm ²]	kg
ABS 71 A-2	0.37	2800	67.0	-	-	0.92	2.73	1.26	5.9	2.3	1.8	0.00139	7.0
ABS 71 B-2	0.55	2800	70.0	-	-	0.92	3.88	1.88	5.4	2.5	1.8	0.00172	8.0
ABS 80 A-2	0.75	2800	72.0	-	-	0.92	5.15	2.56	5.8	2.5	1.8	0.00366	8.5
ABS 80 B-2	1.10	2800	75.0	-	-	0.95	7.02	3.75	5.7	2.5	1.8	0.00457	9.5
ABS 90 S-2	1.50	2800	76.0	-	-	0.95	9.44	5.12	5.8	2.5	1.8	0.00723	12.5

4 poles, idle speed 1500 rpm

230 V / 50 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm ²]	kg
ABS 71 A-4	0.25	1400	62.0	-	-	0.92	1.99	1.71	6.0	2.5	1.8	0.00281	6.9
ABS 71 B-4	0.37	1400	65.0	-	-	0.92	2.81	2.52	5.7	2.5	1.8	0.00358	8.1
ABS 80 A-4	0.55	1400	68.0	-	-	0.92	4.00	3.75	5.3	2.5	1.8	0.00596	8.9
ABS 80 B-4	0.75	1400	71.0	-	-	0.92	5.22	5.12	5.7	2.5	1.8	0.00769	9.6
ABS 90 S-4	1.10	1400	73.0	-	-	0.95	9.44	7.50	5.6	2.5	1.8	0.01173	13.0
ABS 90 L-4	1.50	1400	75.0	-	-	0.95	9.57	10.23	5.7	2.5	1.8	0.01481	16.0
ABS 100 L-4	2.20	1400	76.0	-	-	0.95	13.90	15.01	5.8	2.5	1.8	0.03901	23.0



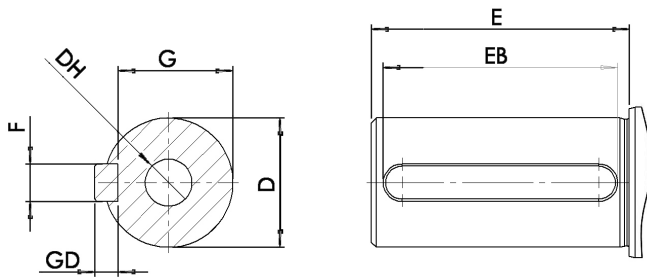
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SHAFT END DIMENSIONS

independent of mounting type and efficiency class



Independent of number of poles

Frame size	D	E	F	G	DH	EB	ED	GD
56	9	20	3	7.2	M4x12	16	2	3
63	11	23	4	8.5	M4x12	16	3.5	4
71	14	30	5	11	M5x12	25	2.5	5
80	19	40	6	15.5	M6x16	30	5	6
90	24	50	8	20	M8x19	40	5	7
100	28	60	8	24	M10x22	50	5	7
112	28	60	8	24	M12x28	50	5	7
132	38	80	10	33.0	M12x28	65	7.5	8

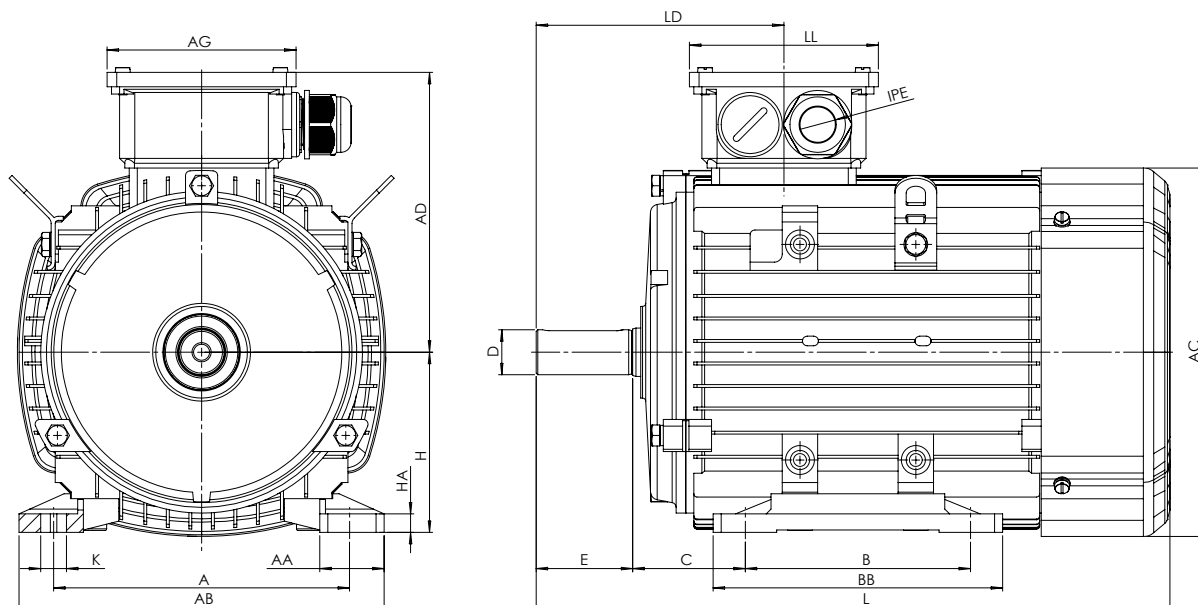
2 poles

Frame size	D	E	F	G	DH	EB	ED	GD
160	42	110	12	37	M16x36	90	10	8
180	48	110	14	42.5	M16x36	90	10	9
200	55	110	16	49	M20x42	100	5	10
225	55	110	16	49	M20x42	100	5.0	10
250	60	140	18	53	M20x42	125	7.5	11
280	65	140	18	58	M20x42	125	7.5	11
315	65	140	18	58	M20x42	125	7.5	11
355	80	170	22	67.5	M20x50	130	5	14

4, 6, 8 poles

Frame size	D	E	F	G	DH	EB	ED	GD
160	42	110	12	37	M16x36	90	10	8
180	48	110	14	42.5	M16x36	90	10	9
200	55	110	16	49	M20x42	100	5	10
225	60	110	18	53	M20x42	125	7.5	11
250	65	140	18	58	M20x42	125	7.5	11
280	75	140	20	67.5	M20x42	125	7.5	12
315	80	140	22	71	M20x42	160	5	14
355	100	210	28	86	M24x50	160	5	16

ALUMINUM MOTOR, MOUNTING B3



Without IE classification

Frame size	A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LD	LL	IPE
56	90	23	111	113	90	86	71	88	36	9	20	56	7		199	83	86	1-M20x1.5
63	100	24	123	120	100	101	80	100	40	11	23	63	7	7x9.5	217	95,5	101	1-M20x1.5
71	112	26	138	136	112	101	90	110	45	14	30	71	8	7x11	245	110,5	101	1-M20x1.5

IE2

Frame size		A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LD	LL	IPE
80		125	35	157	155	124	101	100	125	50	19	40	80	9	10x14	281	118	101	1-M25x1.5
90	S	140	37	173	175	137	109	100	125	56	24	50	90	10	10x14	315	136	109	1-M25x1.5
90	L	140	37	173	175	137	109	125	150	56	24	50	90	10	10x14	340	136	109	1-M25x1.5
100	L	160	40	196	195	151	109	140	172	63	28	60	100	11	12x16	373	144	109	1-M25x1.5
112	M	190	41	227	219	169	117.5	140	180	70	28	60	112	12	12x16	394	152	117.5	2-M32x1.5
132	S	216	51	262	258	188	117.5	140	186	89	38	80	132	15	12x16	465	180	117.5	2-M32x1.5
132	M	216	51	262	258	188	117.5	178	224	89	38	80	132	15	12x16	503	180	117.5	2-M32x1.5
160	M	254	55	304	315	242	167	210	260	108	42	110	160	18	15x18	607	268.5	157	2-M40x1.5
160	L	254	55	304	315	242	167	254	304	108	42	110	160	18	15x18	651	268.5	157	2-M40x1.5

ALUMINUM MOTOR, MOUNTING B3

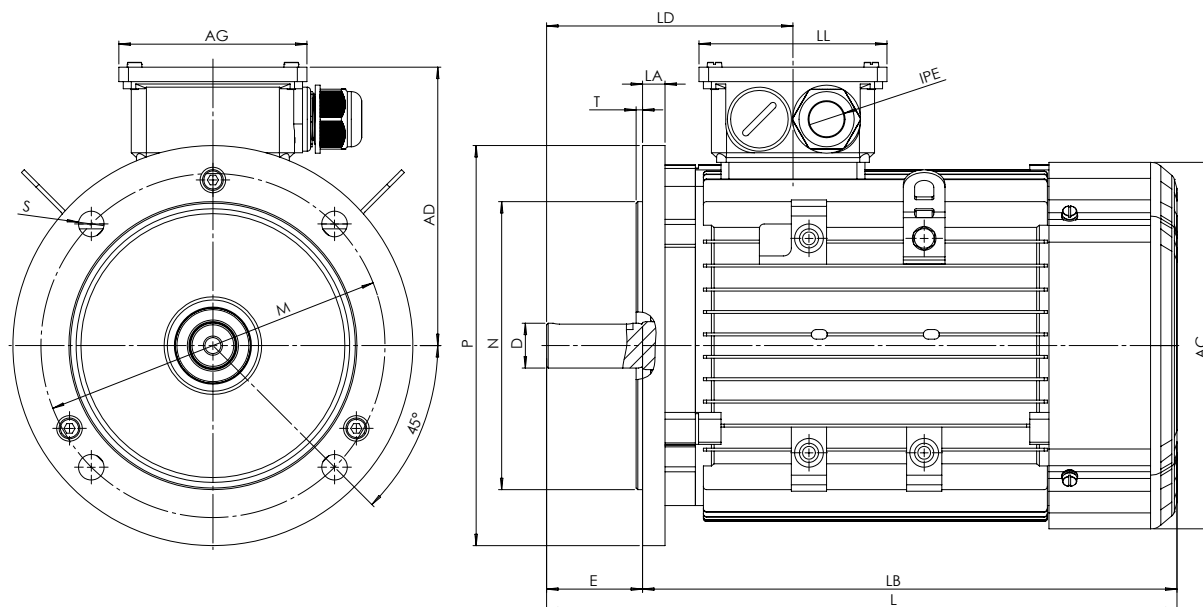
IE3

Frame size		A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LD	LL	IPE
80		125	35	157	158	129	101	100	125	50	19	40	80	8	10x14	294	115	101	1-M25x1.5
90	S	140	37	173	175	140	109	100	125	56	24	50	90	10	10x14	319	145	109	1-M25x1.5
90	L	140	37	173	175	140	109	125	150	56	24	50	90	10	10x14	344	145	109	1-M25x1.5
100	L	160	40	196	198	156	109	140	172	63	28	60	100	11	12x16	393	148.5	109	1-M25x1.5
112	M	190	41	227	219	166	117.5	140	180	70	28	60	112	12	12x16	394	152	117.5	2-M32x1.5
132	S	216	51	262	258	188	117.5	140	186	89	38	80	132	15	12x16	445	180	117.5	2-M32x1.5
132	M	216	51	262	258	188	117.5	178	224	89	38	80	132	15	12x16	483	180	117.5	2-M32x1.5
160	M	254	55	304	315	242	167	210	260	108	42	110	160	18	15x18	589	268.5	157	2-M40x1.5
160	L	254	55	304	315	242	167	254	304	108	42	110	160	18	15x18	633	268.5	157	2-M40x1.5

IE4

Frame size		A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LD	LL	IPE
80		125	35	157	158	129	101	100	125	50	19	40	80	8	10x14	294	115	101	1-M25x1.5
90	S	140	37	173	175	140	109	100	125	56	24	50	90	10	10x14	319	145	109	1-M25x1.5
90	L	140	37	173	175	140	109	125	150	56	24	50	90	10	10x14	344	145	109	1-M25x1.5
100	L	160	40	196	198	156	109	140	172	63	28	60	100	11	12x16	393	148.5	109	1-M32x1.5
112	M	190	40	227	224	175	117.5	140	180	70	28	60	112	12	12x16	400	154	117.5	2-M32x1.5
132	S	216	51	262	258	188	117.5	140	186	89	38	80	132	15	12x16	445	180	117.5	2-M32x1.5
132	M	216	51	262	258	188	117.5	178	224	89	38	80	132	15	12x16	483	180	117.5	2-M32x1.5
132	M-4	216	51	262	258	188	117.5	178	224	89	38	80	132	15	12x16	539	180	117.5	2-M32x1.5
160	M	254	55	304	315	242	167	210	260	108	42	110	160	18	15x18	589	268.5	157	2-M40x1.5
160	L	254	55	304	315	242	167	254	304	108	42	110	160	18	15x18	633	268.5	157	2-M40x1.5

ALUMINUM MOTOR, MOUNTING B5



Without IE classification

Frame size	AC	AD	AG	D	E	L	LA	LB	LD	LL	M	N	P	S	T	IPE
56	113	90	86	9	20	199	8	179	83	86	100	80	120	4x7	3	1-M20x1.5
63	120	100	101	11	23	217	10	194	95.5	101	115	95	140	4x10	3	1-M20x1.5
71	136	112	101	14	30	245	10	215	110.5	101	130	110	160	4x10	3.5	1-M20x1.5

IE2

Frame size	AC	AD	AG	D	E	L	LA	LB	LD	LL	M	N	P	S	T	IPE
80	155	124	101	19	40	281	12	241	118	101	165	130	200	4x12	3.5	1-M25x1.5
90	S	175	137	24	50	315	11	265	136	109	165	130	200	4x12	3.5	1-M25x1.5
90	L	175	137	24	50	340	11	290	136	109	165	130	200	4x12	3.5	1-M25x1.5
100	L	195	151	28	60	373	13	313	144	109	215	180	250	4x14.5	4	1-M25x1.5
112	M	219	169	28	60	394	14	334	152	117.5	215	180	250	4x14.5	4	2-M32x1.5
132	S	258	188	38	80	465	14	385	180	117.5	265	230	300	4x14.5	4	2-M32x1.5
132	M	258	188	38	80	503	14	423	180	117.5	265	230	300	4x14.5	4	2-M32x1.5
160	M	315	242	42	110	607	15	497	268.5	157	300	250	350	4x18.5	5	2-M40x1.5
160	L	315	242	42	110	651	15	541	268.5	157	300	250	350	4x18.5	5	2-M40x1.5

ALUMINUM MOTOR, MOUNTING B5

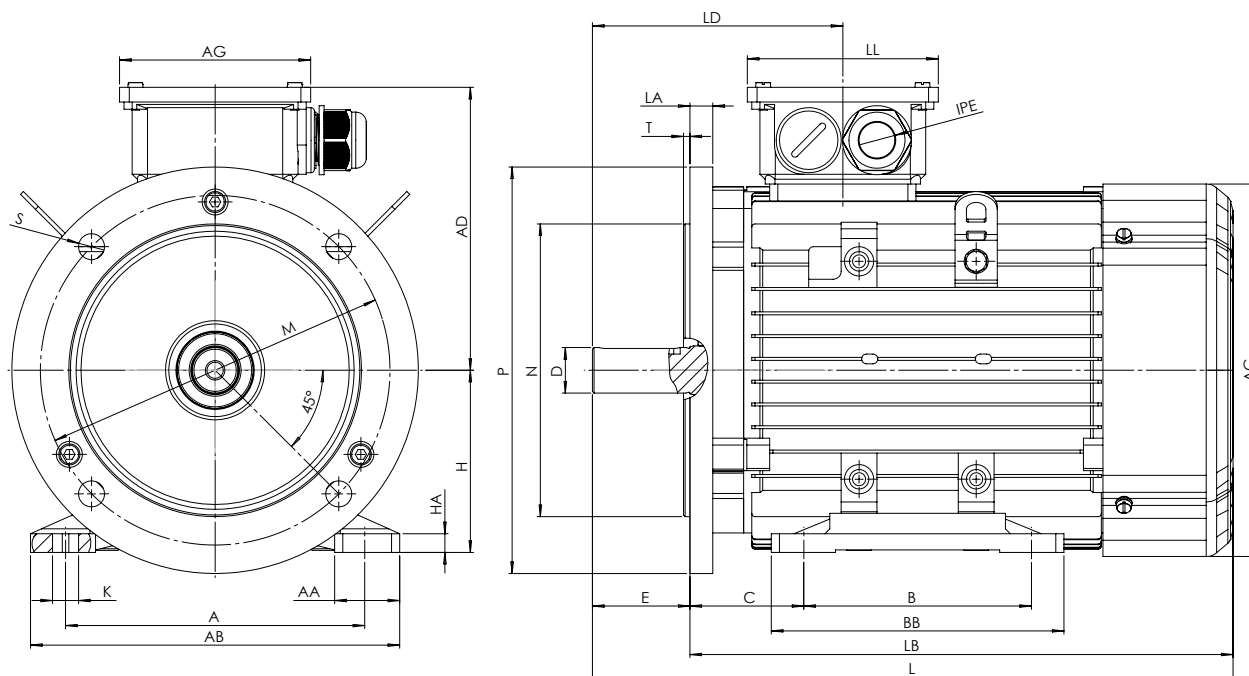
IE3

Frame size		AC	AD	AG	D	E	L	LA	LB	LD	LL	M	N	P	S	T	IPE
80		158	129	101	19	40	294	12	254	115	101	165	130	200	4x12	3.5	1-M25x1.5
90	S	175	140	109	24	50	319	12	269	145	109	165	130	200	4x12	3.5	1-M25x1.5
90	L	175	140	109	24	50	344	12	294	145	109	165	130	200	4x12	3.5	1-M25x1.5
100	L	198	156	109	28	60	393	13	333	148.5	109	215	180	250	4x14.5	4	1-M25x1.5
112	M	219	166	117.5	28	60	394	14	334	152	117.5	215	180	250	4x14.5	4	2-M32x1.5
132	S	258	188	117.5	38	80	445	14	365	180	117.5	265	230	300	4x14.5	4	2-M32x1.5
132	M	258	188	117.5	38	80	483	14	403	180	117.5	265	230	300	4x14.5	4	2-M32x1.5
160	M	315	242	167	42	110	589	15	479	268.5	157	300	250	350	4x18.5	5	2-M40x1.5
160	L	315	242	167	42	110	633	15	523	268.5	157	300	250	350	4x18.5	5	2-M40x1.5

IE4

Frame size		AC	AD	AG	D	E	L	LA	LB	LD	LL	M	N	P	S	T	IPE
80		158	129	101	19	40	294	12	254	115	101	165	130	200	4x12	3.5	1-M25x1.5
90	S	175	140	109	24	50	319	12	269	145	109	165	130	200	4x12	3.5	1-M25x1.5
90	L	175	140	109	24	50	344	12	294	145	109	165	130	200	4x12	3.5	1-M25x1.5
100	L	198	156	109	28	60	393	13	333	148.5	109	215	180	250	4x14.5	4	2-M32x1.5
112	M	224	175	117.5	28	60	400	14	340	154	117.5	215	180	250	4x14.5	4	2-M32x1.5
132	S	258	188	117.5	38	80	445	14	365	180	117.5	265	230	300	4x14.5	4	2-M32x1.5
132	M	258	188	117.5	38	80	483	14	403	180	117.5	265	230	300	4x14.5	4	2-M32x1.5
132	M-4	258	188	117.5	38	80	539	14	459	180	117.5	265	230	300	4x14.5	4	2-M32x1.5
160	M	315	242	167	42	110	589	15	479	268.5	157	300	250	350	4x18.5	5	2-M40x1.5
160	L	315	242	167	42	110	633	15	523	268.5	157	300	250	350	4x18.5	5	2-M40x1.5

ALUMINUM MOTOR, MOUNTING B35



Without IE classification

Frame size	A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LA	LB	LD	LL	M	N	P	S	T	IPE
56	90	23	111	113	90	86	71	88	36	9	20	56	7		199	8	179	83	86	100	80	120	4x7	3	1-M20x1.5
63	100	24	123	120	100	101	80	100	40	11	23	63	7	7x9.5	217	10	194	95,5	101	115	95	140	4x10	3	1-M20x1.5
71	112	26	138	136	112	101	90	110	45	14	30	71	8	7x11	245	10	215	110,5	101	130	110	160	4x10	3,5	1-M20x1.5

IE2

Frame size	A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LA	LB	LD	LL	M	N	P	S	T	IPE
80	125	35	157	155	124	101	100	125	50	19	40	80	9	10x14	281	12	241	118	101	165	130	200	4x12	3.5	1-M25x1.5
90 S	140	37	173	175	137	109	100	125	56	24	50	90	10	10x14	315	11	265	136	109	165	130	200	4x12	3.5	1-M25x1.5
90 L	140	37	173	175	137	109	125	150	56	24	50	90	10	10x14	340	11	290	136	109	165	130	200	4x12	3.5	1-M25x1.5
100 L	160	40	196	195	151	109	140	172	63	28	60	100	11	12x16	373	13	313	144	109	215	180	250	4x14.5	4	1-M25x1.5
112 M	190	41	227	219	169		140	180	70	28	60	112	12	12x16	394	14	334	152	117.5	215	180	250	4x14.5	4	2-M32x1.5
132 S	216	51	262	258	188		140	186	89	38	80	132	15	12x16	465	14	385	180	117.5	265	230	300	4x14.5	4	2-M32x1.5
132 M	216	51	262	258	188		178	224	89	38	80	132	15	12x16	503	14	423	180	117.5	265	230	300	4x14.5	4	2-M32x1.5
160 M	254	55	304	315	242	167	210	260	108	42	110	160	18	15x18	607	15	497	268.5	157	300	250	350	4x18.5	5	2-M40x1.5
160 L	254	55	304	315	242	167	254	304	108	42	110	160	18	15x18	651	15	541	268.5	157	300	250	350	4x18.5	5	2-M40x1.5

ALUMINUM MOTOR, MOUNTING B35

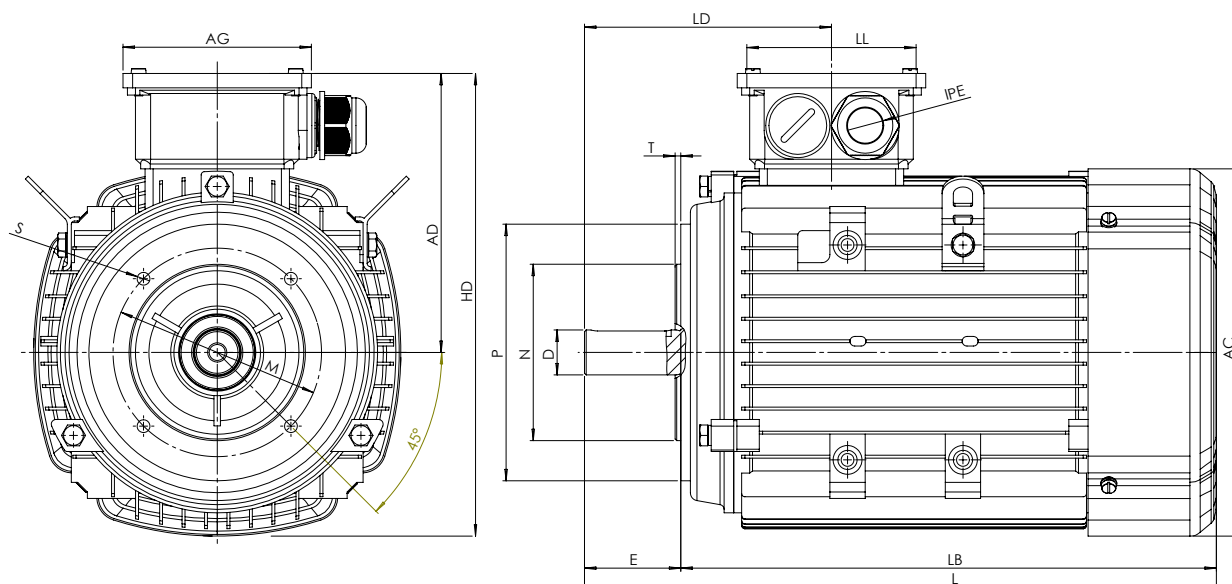
IE3

Frame size		A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LA	LB	LD	LL	M	N	P	S	T	IPE
80		125	35	157	158	129	101	100	125	50	19	40	80	8	10x14	294	12	254	115	101	165	130	200	4x12	3,5	1-M25x1.5
90	S	140	37	173	175	140	109	100	125	56	24	50	90	10	10x14	319	12	269	145	109	165	130	200	4x12	3,5	1-M25x1.5
90	L	140	37	173	175	140	109	125	150	56	24	50	90	10	10x14	344	12	294	145	109	165	130	200	4x12	3,5	1-M25x1.5
100	L	160	40	196	198	156	109	140	172	63	28	60	100	11	12x16	393	13	333	148,5	109	215	180	250	4x14.5	4	1-M25x1.5
112	M	190	41	227	219	166	117,5	140	180	70	28	60	112	12	12x16	394	14	334	152	117,5	215	180	250	4x14.5	4	2-M32x1.5
132	S	216	51	262	258	188	117,5	140	186	89	38	80	132	15	12x16	445	14	365	180	117,5	265	230	300	4x14.5	4	2-M32x1.5
132	M	216	51	262	258	188	117,5	178	224	89	38	80	132	15	12x16	483	14	403	180	117,5	265	230	300	4x14.5	4	2-M32x1.5
160	M	254	55	304	315	242	167	210	260	108	42	110	160	18	15x18	589	15	479	268,5	157	300	250	350	4x18.5	5	2-M40x1.5
160	L	254	55	304	315	242	167	254	304	108	42	110	160	18	15x18	633	15	523	268,5	157	300	250	350	4x18.5	5	2-M40x1.5

IE4

Frame size	A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LA	LB	LD	LL	M	N	P	S	T	IPE	
80		125	35	157	158	129	101	100	125	50	19	40	80	8	10x14	294	12	254	115	101	165	130	200	4x12	3,5	1-M25x1.5
90	S	140	37	173	175	140	109	100	125	56	24	50	90	10	10x14	319	12	269	145	109	165	130	200	4x12	3,5	1-M25x1.5
90	L	140	37	173	175	140	109	125	150	56	24	50	90	10	10x14	344	12	294	145	109	165	130	200	4x12	3,5	1-M25x1.5
100	L	160	40	196	198	156	109	140	172	63	28	60	100	11	12x16	393	13	333	148,5	109	215	180	250	4x14.5	4	1-M32x1.5
112	M	190	40	227	224	175	117,5	140	180	70	28	60	112	12	12x16	400	14	340	154	117,5	215	180	250	4x14.5	4	2-M32x1.5
132	S	216	51	262	258	188	117,5	140	186	89	38	80	132	15	12x16	445	14	365	180	117,5	265	230	300	4x14.5	4	2-M32x1.5
132	M	216	51	262	258	188	117,5	178	224	89	38	80	132	15	12x16	483	14	403	180	117,5	265	230	300	4x14.5	4	2-M32x1.5
132	M-4	216	51	262	258	188	117,5	178	224	89	38	80	132	15	12x16	539	14	459	180	117,5	265	230	300	4x14.5	4	2-M32x1.5
160	M	254	55	304	315	242	167	210	260	108	42	110	160	18	15x18	589	15	479	268,5	157	300	250	350	4x18.5	5	2-M40x1.5
160	L	254	55	304	315	242	167	254	304	108	42	110	160	18	15x18	633	15	523	268,5	157	300	250	350	4x18.5	5	2-M40x1.5

ALUMINUM MOTOR, MOUNTING B14A



Without IE classification

Frame size	AC	AD	AG	D	E	HD	L	LB	LD	LL	M	N	P	S	T	IPE
56	113	90	86	9	20	152.5	199	179	83	86	65	50	80	4xM5	2.5	1-M20x1.5
63	120	100	101	11	23	162	217	194	95.5	101	75	60	90	4xM5	2.5	1-M20x1.5
71	136	112	101	14	30	177	245	215	110.5	101	85	70	105	4xM6	2.5	1-M20x1.5

IE2

Frame size	AC	AD	AG	D	E	HD	L	LB	LD	LL	M	N	P	S	T	IPE
80	155	124	101	19	40	201.5	281	241	118	101	100	80	120	4xM6	3	1-M25x1.5
90 S	175	137	109	24	50	224.5	315	265	136	109	115	95	140	4xM8	3	1-M25x1.5
90 L	175	137	109	24	50	224.5	340	290	136	109	115	95	140	4xM8	3	1-M25x1.5
100 L	195	151	109	28	60	248.5	373	313	144	109	130	110	160	4xM8	3.5	1-M25x1.5
112 M	219	169	117.5	28	60	278.5	394	334	152	117.5	130	110	160	4xM8	3.5	2-M32x1.5
132 S	258	188	117.5	38	80	317	465	385	180	117.5	165	130	200	4xM10	3.5	2-M32x1.5
132 M	258	188	117.5	38	80	317	503	423	180	117.5	165	130	200	4xM10	3.5	2-M32x1.5

ALUMINUM MOTOR, MOUNTING B14A

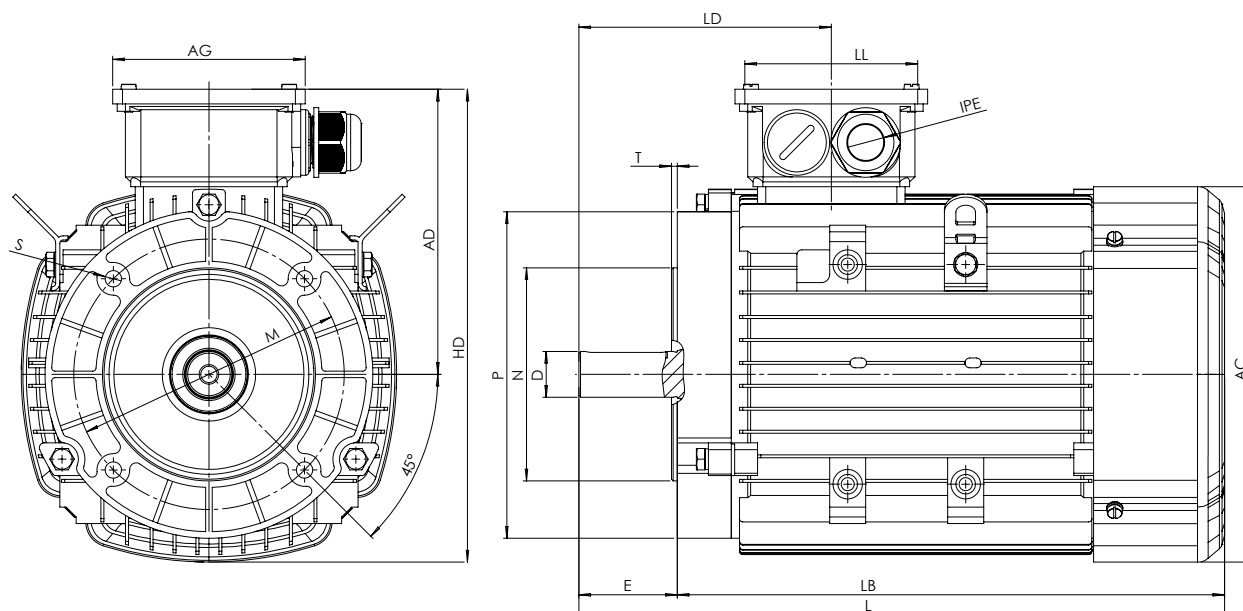
IE3

Frame size		AC	AD	AG	D	E	HD	L	LB	LD	LL	M	N	P	S	T	IPE
80		158	129	101	19	40	208	294	254	115	101	100	80	120	4xM6	3	1-M25x1.5
90	S	175	140	109	24	50	227.5	319	269	145	109	115	95	140	4xM8	3	1-M25x1.5
90	L	175	140	109	24	50	227.5	344	294	145	109	115	95	140	4xM8	3	1-M25x1.5
100	L	198	156	109	28	60	255	393	333	148.5	109	130	110	160	4xM8	3.5	1-M25x1.5
112	M	219	166	117.5	28	60	275.5	394	334	152	117.5	130	110	160	4xM8	3.5	2-M32x1.5
132	S	258	188	117.5	38	80	317	445	365	180	117.5	165	130	200	4xM10	3.5	2-M32x1.5
132	M	258	188	117.5	38	80	317	483	403	180	117.5	165	130	200	4xM10	3.5	2-M32x1.5

IE4

Frame size		AC	AD	AG	D	E	HD	L	LB	LD	LL	M	N	P	S	T	IPE
80		158	129	101	19	40	208	294	254	115	101	100	80	120	4xM6	3	1-M25x1.5
90	S	175	140	109	24	50	227.5	319	269	145	109	115	95	140	4xM8	3	1-M25x1.5
90	L	175	140	109	24	50	227.5	344	294	145	109	115	95	140	4xM8	3	1-M25x1.5
100	L	198	156	109	28	60	255	393	333	148.5	109	130	110	160	4xM8	3.5	1-M32x1.5
112	M	224	175	117.5	28	60	287	400	340	154	117.5	130	110	160	4xM8	3.5	2-M32x1.5
132	S	258	188	117.5	38	80	317	445	365	180	117.5	165	130	200	4xM10	3.5	2-M32x1.5
132	M	258	188	117.5	38	80	317	483	403	180	117.5	165	130	200	4xM10	3.5	2-M32x1.5
132	M-4	258	188	117.5	38	80	317	539	459	180	117.5	165	130	200	4xM10	3.5	2-M32x1.5

ALUMINUM MOTOR, MOUNTING B14B



Without IE classification

Frame size	AC	AD	AG	D	E	HD	L	LB	LD	LL	M	N	P	S	T	IPE
56	113	90	86	9	20	152.5	199	179	83	86	85	70	105	4xM6	2.5	1-M20x1.5
63	120	100	101	11	23	162	217	194	95.5	101	110	80	120	4xM6	3	1-M20x1.5
71	136	112	101	14	30	179	245	215	110.5	101	115	95	140	4xM8	3	1-M20x1.5

IE2

Frame size	AC	AD	AG	D	E	HD	L	LB	LD	LL	M	N	P	S	T	IPE
80	155	124	101	19	40	204	281	241	118	101	130	110	160	4xM8	3.5	1-M25x1.5
90 S	175	137	109	24	50	224.5	315	265	136	109	130	110	160	4xM8	3.5	1-M25x1.5
90 L	175	137	109	24	50	224.5	340	290	136	109	130	110	160	4xM8	3.5	1-M25x1.5
100 L	195	151	109	28	60	251	373	313	144	109	165	130	200	4xM10	3.5	1-M25x1.5
112 M	219	169	117.5	28	60	278.5	394	334	152	117.5	165	130	200	4xM10	3.5	2-M32x1.5
132 S	258	188	117.5	38	80	317	465	385	180	117.5	215	180	250	4xM12	4	2-M32x1.5
132 M	258	188	117.5	38	80	317	503	423	180	117.5	215	180	250	4xM12	4	2-M32x1.5

ALUMINUM MOTOR, MOUNTING B14B

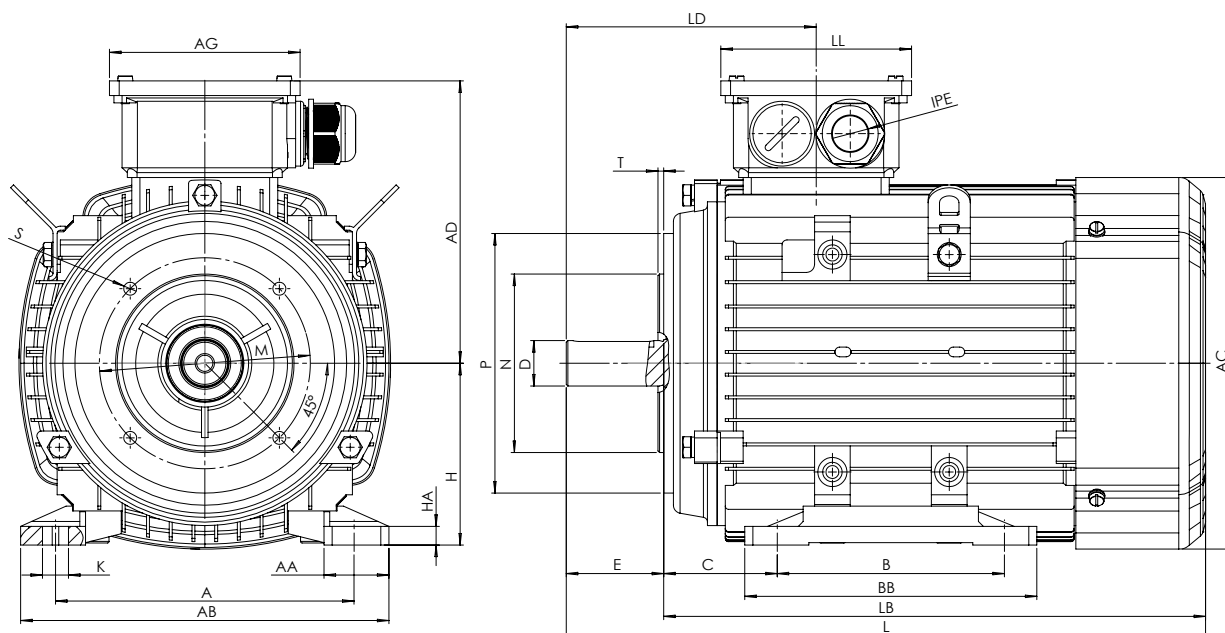
IE3

Frame size		AC	AD	AG	D	E	HD	L	LB	LD	LL	M	N	P	S	T	IPE
80		158	129	101	19	40	209	294	254	115	101	130	110	160	4xM8	3.5	1-M25x1.5
90	S	175	140	109	24	50	227.5	319	269	145	109	130	110	160	4xM8	3.5	1-M25x1.5
90	L	175	140	109	24	50	227.5	344	294	145	109	130	110	160	4xM8	3.5	1-M25x1.5
100	L	198	156	109	28	60	256	393	333	148.5	109	165	130	200	4xM10	3.5	1-M25x1.5
112	M	219	166	117.5	28	60	275.5	394	334	152	117.5	165	130	200	4xM10	3.5	2-M32x1.5
132	S	258	188	117.5	38	80	317	445	365	180	117.5	215	180	250	4xM12	4	2-M32x1.5
132	M	258	188	117.5	38	80	317	483	403	180	117.5	215	180	250	4xM12	4	2-M32x1.5

IE4

Frame size		AC	AD	AG	D	E	HD	L	LB	LD	LL	M	N	P	S	T	IPE
80		158	129	101	19	40	209	294	254	115	101	130	110	160	4xM8	3.5	1-M25x1.5
90	S	175	140	109	24	50	227.5	319	269	145	109	130	110	160	4xM8	3.5	1-M25x1.5
90	L	175	140	109	24	50	227.5	344	294	145	109	130	110	160	4xM8	3.5	1-M25x1.5
100	L	198	156	109	28	60	256	393	333	148.5	109	165	130	200	4xM10	3.5	1-M32x1.5
112	M	224	175	117.5	28	60	285	400	340	154	117.5	165	130	200	4xM10	3.5	2-M32x1.5
132	S	258	188	117.5	38	80	317	445	365	180	117.5	215	180	250	4xM12	4	2-M32x1.5
132	M	258	188	117.5	38	80	317	483	403	180	117.5	215	180	250	4xM12	4	2-M32x1.5
132	M-4	258	188	117.5	38	80	317	539	459	180	117.5	215	180	250	4xM12	4	2-M32x1.5

ALUMINUM MOTOR, MOUNTING B34A



Without IE classification

Frame size	A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LB	LD	LL	M	N	P	S	T	IPE
56	90	23	111	113	90	86	71	88	36	9	20	56	7		199	179	83	86	65	50	80	4xM5	2,5	
63	100	24	123	120	100	101	80	100	40	11	23	63	7	7x9.5	217	194	95,5	101	75	60	90	4xM5	2,5	
71	112	26	138	136	112	101	90	110	45	14	30	71	8	7x11	245	215	110,5	101	85	70	105	4xM6	2,5	

IE2

Frame size		A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LB	LD	LL	M	N	P	S	T	IPE
80		125	35	157	155	124	101	100	125	50	19	40	80	9	10x14	281	241	118	101	100	80	120	4xM6	3	
90	S	140	37	173	175	137	109	100	125	56	24	50	90	10	10x14	315	265	136	109	115	95	140	4xM8	3	
90	L	140	37	173	175	137	109	125	150	56	24	50	90	10	10x14	340	290	136	109	115	95	140	4xM8	3	
100	L	160	40	196	195	151	109	140	172	63	28	60	100	11	12x16	373	313	144	109	130	110	160	4xM8	3,5	
112	M	190	41	227	219	169	117.5	140	180	70	28	60	112	12	12x16	394	334	152	117,5	130	110	160	4xM8	3,5	
132	S	216	51	262	258	188	117.5	140	186	89	38	80	132	15	12x16	465	385	180	117,5	165	130	200	4xM10	3,5	
132	M	216	51	262	258	188	117.5	178	224	89	38	80	132	15	12x16	503	423	180	117,5	165	130	200	4xM10	3,5	

ALUMINUM MOTOR, MOUNTING B34A

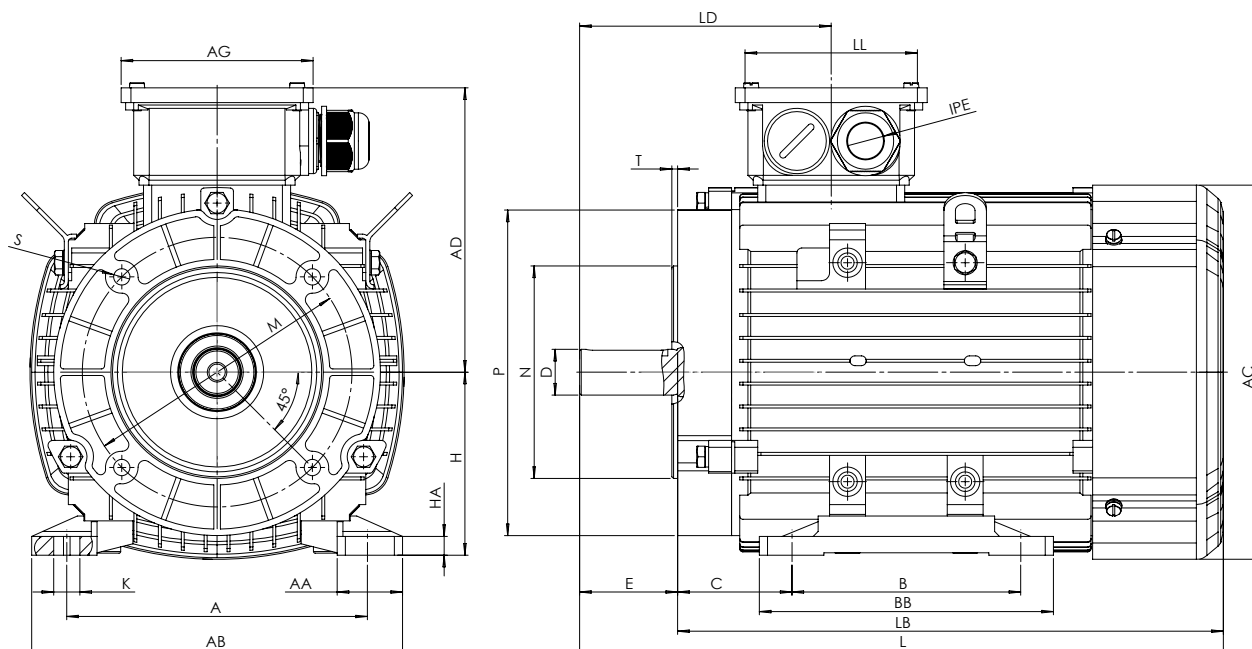
IE3

Frame size		A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LB	LD	LL	M	N	P	S	T	IPE
80		125	35	157	158	129	101	100	125	50	19	40	80	8	10x14	294	254	115	101	100	80	120	4xM6	3	1-M25x1.5
90	S	140	37	173	175	140	109	100	125	56	24	50	90	10	10x14	319	269	145	109	115	95	140	4xM8	3	1-M25x1.5
90	L	140	37	173	175	140	109	125	150	56	24	50	90	10	10x14	344	294	145	109	115	95	140	4xM8	3	1-M25x1.5
100	L	160	40	196	198	156	109	140	172	63	28	60	100	11	12x16	393	333	148,5	109	130	110	160	4xM8	3,5	1-M25x1.5
112	M	190	41	227	219	166	117,5	140	180	70	28	60	112	12	12x16	394	334	152	117,5	130	110	160	4xM8	3,5	2-M32x1.5
132	S	216	51	262	258	188	117,5	140	186	89	38	80	132	15	12x16	445	365	180	117,5	165	130	200	4xM10	3,5	2-M32x1.5
132	M	216	51	262	258	188	117,5	178	224	89	38	80	132	15	12x16	483	403	180	117,5	165	130	200	4xM10	3,5	2-M32x1.5

IE4

Frame size		A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LB	LD	LL	M	N	P	S	T	IPE
80		125	35	157	158	129	101	100	125	50	19	40	80	8	10x14	294	254	115	101	100	80	120	4xM6	3	
90	S	140	37	173	175	140	109	100	125	56	24	50	90	10	10x14	319	269	145	109	115	95	140	4xM8	3	
90	L	140	37	173	175	140	109	125	150	56	24	50	90	10	10x14	344	294	145	109	115	95	140	4xM8	3	
100	L	160	40	196	198	156	109	140	172	63	28	60	100	11	12x16	393	333	148,5	109	130	110	160	4xM8	3,5	
112	M	190	40	227	224	175	117,5	140	180	70	28	60	112	12	12x16	400	340	154	117,5	130	110	160	4xM8	3,5	
132	S	216	51	262	258	188	117,5	140	186	89	38	80	132	15	12x16	445	365	180	117,5	165	130	200	4xM10	3,5	
132	M	216	51	262	258	188	117,5	178	224	89	38	80	132	15	12x16	483	403	180	117,5	165	130	200	4xM10	3,5	
132	M-4	216	51	262	258	188	117,5	178	224	89	38	80	132	15	12x16	539	459	180	117,5	165	130	200	4xM10	3,5	

ALUMINUM MOTOR, MOUNTING B34B



Without IE classification

Frame size	A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LB	LD	LL	M	N	P	S	T	IPE
56	90	23	111	113	90	86	71	88	36	9	20	56	7	5,8x8,3	199	179	83	86	85	70	105	4xM6	2,5	1-M20x1,5
63	100	24	123	120	100	101	80	100	40	11	23	63	7	7x9,5	217	194	95,5	101	110	80	120	4xM6	3	1-M20x1,5
71	112	26	138	136	112	101	90	110	45	14	30	71	8	7x11	245	215	110,5	101	115	95	140	4xM8	3	1-M20x1,5

IE2

Frame size		A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LB	LD	LL	M	N	P	S	T	IPE
80		125	35	157	155	124	101	100	125	50	19	40	80	9	10x14	281	241	118	101	130	110	160	4xM8	3,5	1-M25x1,5
90	S	140	37	173	175	137	109	100	125	56	24	50	90	10	10x14	315	265	136	109	130	110	160	4xM8	3,5	1-M25x1,5
90	L	140	37	173	175	137	109	125	150	56	24	50	90	10	10x14	340	290	136	109	130	110	160	4xM8	3,5	1-M25x1,5
100	L	160	40	196	195	151	109	140	172	63	28	60	100	11	12x16	373	313	144	109	165	130	200	4xM10	3,5	1-M25x1,5
112	M	190	41	227	219	169	117,5	140	180	70	28	60	112	12	12x16	394	334	152	117,5	165	130	200	4xM10	3,5	2-M32x1,5
132	S	216	51	262	258	188	117,5	140	186	89	38	80	132	15	12x16	465	385	180	117,5	215	180	250	4xM12	4	2-M32x1,5
132	M	216	51	262	258	188	117,5	178	224	89	38	80	132	15	12x16	503	423	180	117,5	215	180	250	4xM12	4	2-M32x1,5

ALUMINUM MOTOR, MOUNTING B34B

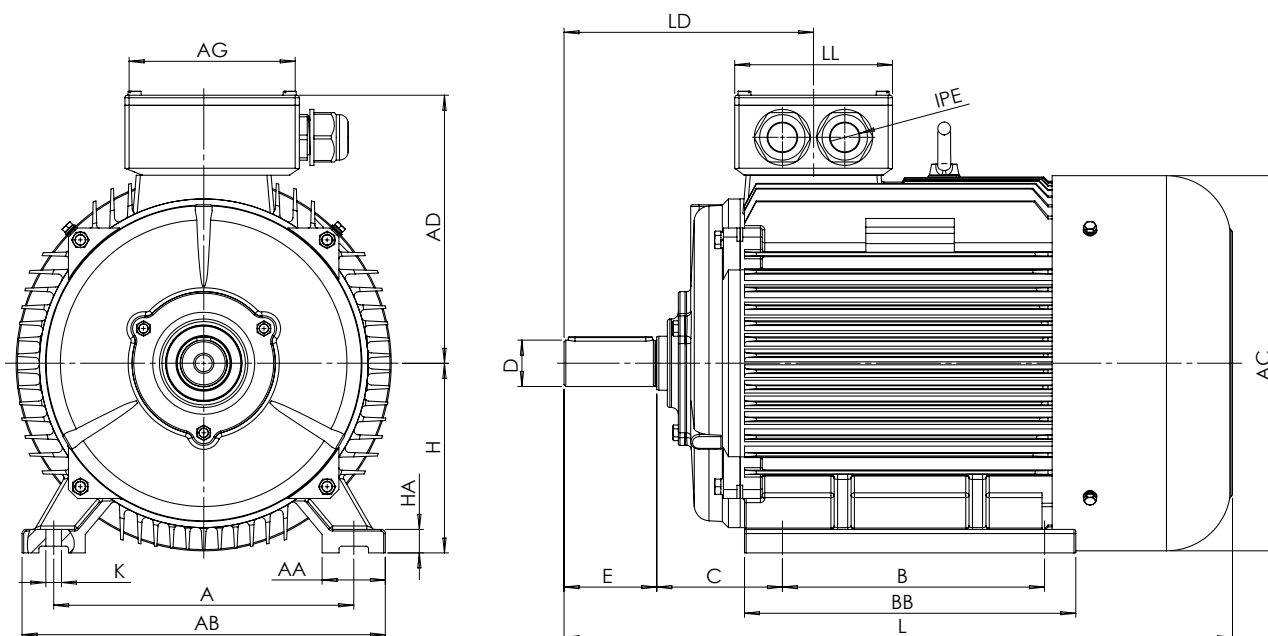
IE3

Frame size		A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LB	LD	LL	M	N	P	S	T	IPE
80		125	35	157	158	129	101	100	125	50	19	40	80	8	10x14	294	254	115	101	130	110	160	4xM8	3,5	1-M25x1.5
90	S	140	37	173	175	140	109	100	125	56	24	50	90	10	10x14	319	269	145	109	130	110	160	4xM8	3,5	1-M25x1.5
90	L	140	37	173	175	140	109	125	150	56	24	50	90	10	10x14	344	294	145	109	130	110	160	4xM8	3,5	1-M25x1.5
100	L	160	40	196	198	156	109	140	172	63	28	60	100	11	12x16	393	333	148,5	109	165	130	200	4xM10	3,5	1-M25x1.5
112	M	190	41	227	219	166	117,5	140	180	70	28	60	112	12	12x16	394	334	152	117,5	165	130	200	4xM10	3,5	2-M32x1.5
132	S	216	51	262	258	188	117,5	140	186	89	38	80	132	15	12x16	445	365	180	117,5	215	180	250	4xM12	4	2-M32x1.5
132	M	216	51	262	258	188	117,5	178	224	89	38	80	132	15	12x16	483	403	180	117,5	215	180	250	4xM12	4	2-M32x1.5

IE4

Frame size		A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LB	LD	LL	M	N	P	S	T	IPE
80		125	35	157	158	129	101	100	125	50	19	40	80	8	10x14	294	254	115	101	130	110	160	4xM8	3,5	1-M25x1.5
90	S	140	37	173	175	140	109	100	125	56	24	50	90	10	10x14	319	269	145	109	130	110	160	4xM8	3,5	1-M25x1.5
90	L	140	37	173	175	140	109	125	150	56	24	50	90	10	10x14	344	294	145	109	130	110	160	4xM8	3,5	1-M25x1.5
100	L	160	40	196	198	156	109	140	172	63	28	60	100	11	12x16	393	333	148,5	109	165	130	200	4xM10	3,5	1-M32x1.5
112	M	190	40	227	224	175	117,5	140	180	70	28	60	112	12	12x16	400	340	154	117,5	165	130	200	4xM10	3,5	2-M32x1.5
132	S	216	51	262	258	188	117,5	140	186	89	38	80	132	15	12x16	445	365	180	117,5	215	180	250	4xM12	4	2-M32x1.5
132	M	216	51	262	258	188	117,5	178	224	89	38	80	132	15	12x16	483	403	180	117,5	215	180	250	4xM12	4	2-M32x1.5
132	M-4	216	51	262	258	188	117,5	178	224	89	38	80	132	15	12x16	539	459	180	117,5	215	180	250	4xM12	4	2-M32x1.5

CAST IRON MOTOR, MOUNTING B3



IE2

Frame size	x poles	A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LD	LL	IPE
160 M	2,4,6,8	254	65	314	314	251	162	210	260	108	42	110	160	20	4x14.5	608	256	152	2xM40x1.5
160 L	2,4,6,8	254	65	314	314	251	162	254	304	108	42	110	160	20	4x14.5	652	256	152	2xM40x1.5
180 M	2,4,8	279	70	349	355	267	162	241	311	121	48	110	180	22	4x14.5	688	271	152	2xM40x1.5
180 L	4,6,8	279	70	349	355	267	162	279	349	121	48	110	180	22	4x14.5	726	271	152	2xM40x1.5
200 L	2,4,6,8	318	70	388	397	299	210	305	369	133	55	110	200	25	4x18.5	772	296	190	2xM50x1.5
225 S	4,8	356	75	431	446	322	210	286	368	149	60	140	225	28	4x18.5	808	329	190	2xM50x1.5
225 M	2	356	75	431	446	322	210	311	393	149	55	110	225	28	4x18.5	803	299	190	2xM50x1.5
225 M	4,6,8	356	75	431	446	322	210	311	393	149	60	140	225	28	4x18.5	833	329	190	2xM50x1.5
250 M	2	406	80	484	485	358	248	349	445	168	60	140	250	30	4x24	915	347	218	2xM63x1.5
250 M	4,6,8	406	80	484	485	358	248	349	445	168	65	140	250	30	4x24	915	347	218	2xM63x1.5
280 S	2	457	85	542	547	387	248	368	485	190	65	140	280	35	4x24	982	355.5	218	2xM63x1.5
280 S	4,6,8	457	85	542	547	387	248	368	485	190	75	140	280	35	4x24	982	355.5	218	2xM63x1.5
280 M	2	457	85	542	547	387	248	419	536	190	65	140	280	35	4x24	1033	355.5	218	2xM63x1.5
280 M	4,6,8	457	85	542	547	387	248	419	536	190	75	140	280	35	4x24	1033	355.5	218	2xM63x1.5
315 S	2	508	120	628	620	527	320	406	570	216	65	140	315	45	4x28	1185	397	280	2xM63x1.5
315 S	4,6,8	508	120	628	620	527	320	406	570	216	80	170	315	45	4x28	1215	427	280	2xM63x1.5
315 M	2	508	120	628	620	527	320	457	680	216	65	140	315	45	4x28	1295	397	280	2xM63x1.5
315 M	4,6,8	508	120	628	620	527	320	457	680	216	80	170	315	45	4x28	1325	427	280	2xM63x1.5
315 L	2	508	120	628	620	527	320	508	680	216	65	140	315	45	4x28	1295	397	280	2xM63x1.5
315 L	4,6,8	508	120	628	620	527	320	508	680	216	80	170	315	45	4x28	1325	427	280	2xM63x1.5
355 M	2	610	116	726	698	642	380	560	750	254	75	140	355	52	6x28	1495	414	330	2xM63x1.5
355 M	4,6,8	610	116	726	698	642	380	560	750	254	95	170	355	52	6x28	1565	444	330	2xM63x1.5
355 L	2	610	116	726	698	642	380	630	750	254	75	140	355	52	6x28	1495	414	330	2xM63x1.5
355 L	4,6,8	610	116	726	698	642	380	630	750	254	95	170	355	52	6x28	1565	444	330	2xM63x1.5

CAST IRON MOTOR, MOUNTING B3

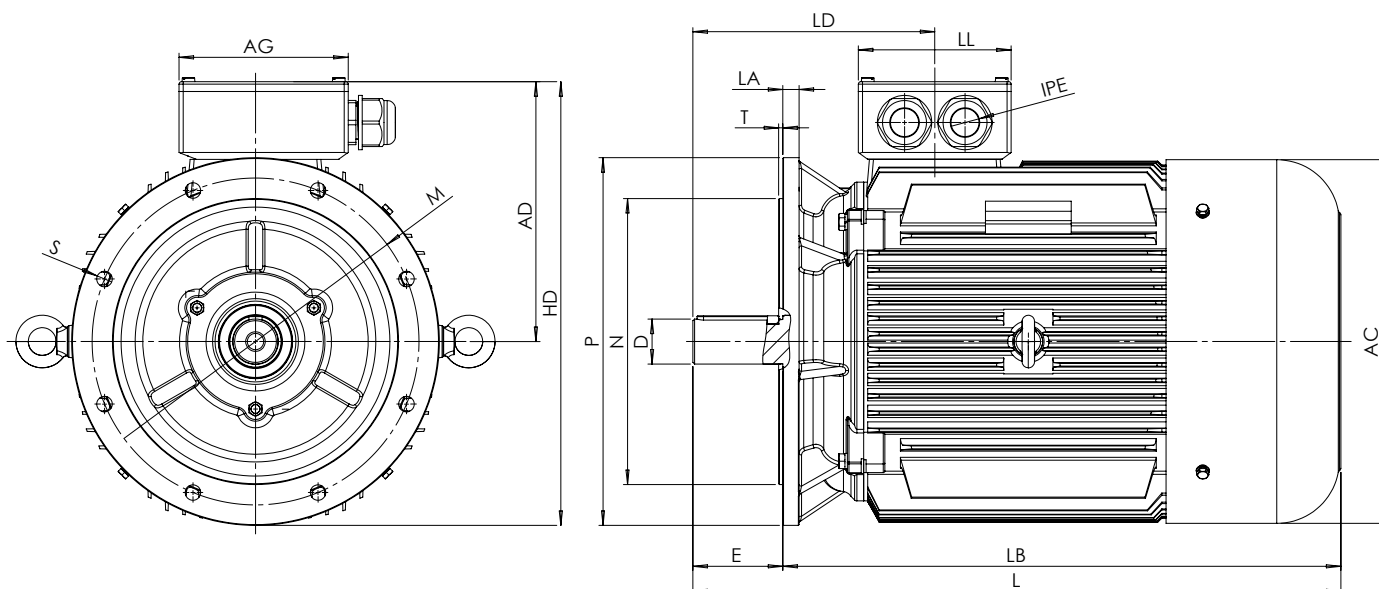
IE3

Frame size		No. of poles	A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LD	LL	IPE
160	M	2,4,6,8	254	65	314	314	251	162	210	260	108	42	110	160	20	4x14.5	589	256	152	2xM40x1.5
160	L	2,4,6,8	254	65	314	314	251	162	254	304	108	42	110	160	20	4x14.5	633	256	152	2xM40x1.5
180	M	2,4,8	279	70	349	355	267	162	241	311	121	48	110	180	22	4x14.5	661	271	152	2xM40x1.5
180	L	4,6,8	279	70	349	355	267	162	279	349	121	48	110	180	22	4x14.5	699	271	152	2xM40x1.5
200	L	2,4,6,8	318	70	388	397	299	210	305	369	133	55	110	200	25	4x18.5	757	296	190	2xM50x1.5
225	S	4,8	356	75	431	446	322	210	286	368	149	60	140	225	28	4x18.5	798	329	190	2xM50x1.5
225	M	2	356	75	431	446	322	210	311	393	149	55	110	225	28	4x18.5	793	299	190	2xM50x1.5
225	M	4,6,8	356	75	431	446	322	210	311	393	149	60	140	225	28	4x18.5	823	329	190	2xM50x1.5
250	M	2	406	80	484	485	358	248	349	445	168	60	140	250	30	4x24	900	347	218	2xM63x1.5
250	M	4,6,8	406	80	484	485	358	248	349	445	168	65	140	250	30	4x24	900	347	218	2xM63x1.5
280	S	2	457	85	542	547	387	248	368	485	190	65	140	280	35	4x24	931	355.5	218	2xM63x1.5
280	S	4,6,8	457	85	542	547	387	248	368	485	190	75	140	280	35	4x24	961	355.5	218	2xM63x1.5
280	M	2	457	85	542	547	387	248	419	536	190	65	140	280	35	4x24	982	355.5	218	2xM63x1.5
280	M	4,6,8	457	85	542	547	387	248	419	536	190	75	140	280	35	4x24	1012	355.5	218	2xM63x1.5
315	S	2	508	120	628	620	527	320	406	570	216	65	140	315	45	4x28	1156	397	280	2xM63x1.5
315	S	4,6,8	508	120	628	620	527	320	406	570	216	80	170	315	45	4x28	1228	427	280	2xM63x1.5
315	M	2	508	120	628	620	527	320	457	680	216	65	140	315	45	4x28	1266	397	280	2xM63x1.5
315	M	4,6,8	508	120	628	620	527	320	457	680	216	80	170	315	45	4x28	1338	427	280	2xM63x1.5
315	L	2	508	120	628	620	527	320	508	680	216	65	140	315	45	4x28	1266	397	280	2xM63x1.5
315	L	4,6,8	508	120	628	620	527	320	508	680	216	80	170	315	45	4x28	1338	427	280	2xM63x1.5
355	M	2	610	116	726	698	642	380	560	750	254	75	140	355	52	6x28	1491	414	330	2xM63x1.5
355	M	4,6,8	610	116	726	698	642	380	560	750	254	95	170	355	52	6x28	1561	444	330	2xM63x1.5
355	L	2	610	116	726	698	642	380	630	750	254	75	140	355	52	6x28	1491	414	330	2xM63x1.5
355	L	4,6,8	610	116	726	698	642	380	630	750	254	95	170	355	52	6x28	1561	444	330	2xM63x1.5

IE4

Frame size		No. of poles	A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LD	LL	IPE
160	M	2,4,6,8	254	65	314	335	256	162	210	315	108	42	110	160	20	4x14.5	648	248	152	2xM40x1.5
160	L	2,4,6,8	254	65	314	335	256	162	254	355	108	42	110	160	20	4x14.5	688	248	152	2xM40x1.5
180	M	2,4,8	279	70	349	363	271	162	241	359	121	48	110	180	22	4x14.5	711	271	152	2xM40x1.5
180	L	4,6,8	279	70	349	363	271	162	279	360	121	48	110	180	22	4x14.5	746	271	152	2xM40x1.5
200	L	2,4,6,8	318	70	395	418	312	210	305	372	133	55	110	200	25	4x18.5	846	296	190	2xM50x1.5
225	S	4,8	356	75	431	465	334	210	286	431	149	60	140	225	28	4x18.5	880	330	190	2xM50x1.5
225	M	2	356	75	431	465	334	210	311	466	149	55	110	225	28	4x18.5	885	299	190	2xM50x1.5
225	M	4,6,8	356	75	431	465	334	210	311	466	149	60	140	225	28	4x18.5	915	330	190	2xM50x1.5
250	M	2	406	80	484	525	379	248	349	515	168	60	140	250	30	4x24	980	347	220	2xM63x1.5
250	M	4,6,8	406	80	484	525	379	248	349	515	168	65	140	250	30	4x24	980	347	220	2xM63x1.5
280	S	2	457	85	542	588	412	248	368	510	190	65	140	280	35	4x24	980	355	220	2xM63x1.5
280	S	4,6,8	457	85	542	588	412	248	368	510	190	75	140	280	35	4x24	980	355	220	2xM63x1.5
280	M	2	457	85	542	588	412	248	419	550	190	65	140	280	35	4x24	1020	355	220	2xM63x1.5
280	M	4,6,8	457	85	542	588	412	248	419	550	190	75	140	280	35	4x24	1020	355	220	2xM63x1.5
315	S	2	508	120	628	620	524	320	406	570	216	65	140	315	45	4x28	1194	397	280	2xM63x1.5
315	S	4,6,8	508	120	628	620	524	320	406	570	216	80	170	315	45	4x28	1224	427	280	2xM63x1.5
315	M	2	508	120	628	620	524	320	457	680	216	65	140	315	45	4x28	1304	397	280	2xM63x1.5
315	M	4,6,8	508	120	628	620	524	320	457	680	216	80	170	315	45	4x28	1334	427	280	2xM63x1.5
315	L	2	508	120	628	620	524	320	508	680	216	65	140	315	45	4x28	1304	397	280	2xM63x1.5
315	L	4,6,8	508	120	628	620	524	320	508	680	216	80	170	315	45	4x28	1334	427	280	2xM63x1.5
355	M	2	610	116	726	698	639	380	560	750	254	75	140	355	52	6x28	1496	422	330	2xM63x1.5
355	M	4,6,8	610	116	726	698	639	380	560	750	254	95	170	355	52	6x28	1536	452	330	2xM63x1.5
355	L	2	610	116	726	698	639	380	630	750	254	75	140	355	52	6x28	1496	422	330	2xM63x1.5
355	L	4,6,8	610	116	726	698	639	380	630	750	254	95	170	355	52	6x28	1536	452	330	2xM63x1.5

CAST IRON MOTOR, MOUNTING B5



IE2

Frame size	No. of poles	AC	AD	AG	D	E	HD	L	LA	LB	LD	LL	M	N	P	S	T	IPE
160 M	2,4,6,8	314	251	162	42	110	426	608	15	498	256	152	300	250	350	4x18.5	5	2xM40x1.5
160 L	2,4,6,8	314	251	162	42	110	426	652	15	542	256	152	300	250	350	4x18.5	5	2xM40x1.5
180 M	2,4,8	355	267	162	48	110	444.5	688	15	578	271	152	300	250	350	4x18.5	5	2xM40x1.5
180 L	4,6,8	355	267	162	48	110	444.5	726	15	616	271	152	300	250	350	4x18.5	5	2xM40x1.5
200 L	2,4,6,8	397	299	210	55	110	499	772	17	662	296	190	350	300	400	4x18.5	5	2xM50x1.5
225 S	4,8	446	322	210	60	140	547	808	20	668	329	190	400	350	450	8x18.5	5	2xM50x1.5
225 M	2	446	322	210	55	110	547	803	20	693	299	190	400	350	450	8x18.5	5	2xM50x1.5
225 M	4,6,8	446	322	210	60	140	547	833	20	693	329	190	400	350	450	8x18.5	5	2xM50x1.5
250 M	2	485	358	248	60	140	633	915	22	775	347	218	500	450	550	8x18.5	5	2xM63x1.5
250 M	4,6,8	485	358	248	65	140	633	915	22	775	347	218	500	450	550	8x18.5	5	2xM63x1.5
280 S	2	547	387	248	65	140	662	982	22	842	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
280 S	4,6,8	547	387	248	75	140	662	982	22	842	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
280 M	2	547	387	248	65	140	662	1033	22	893	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
280 M	4,6,8	547	387	248	75	140	662	1033	22	893	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
315 S	2	620	527	320	65	140	857	1185	22	1045	397	280	600	550	660	8x24	6	2xM63x1.5
315 S	4,6,8	620	527	320	80	170	857	1215	22	1045	427	280	600	550	660	8x24	6	2xM63x1.5
315 M	2	620	527	320	65	140	857	1295	22	1155	397	280	600	550	660	8x24	6	2xM63x1.5
315 M	4,6,8	620	527	320	80	170	857	1325	22	1155	427	280	600	550	660	8x24	6	2xM63x1.5
315 L	2	620	527	320	65	140	857	1295	22	1155	397	280	600	550	660	8x24	6	2xM63x1.5
315 L	4,6,8	620	527	320	80	170	857	1325	22	1155	427	280	600	550	660	8x24	6	2xM63x1.5
355 M	2	698	642	380	75	140	1042	1495	25	1355	414	330	740	680	800	8x24	6	2xM63x1.5
355 M	4,6,8	698	642	380	95	170	1042	1565	25	1395	444	330	740	680	800	8x24	6	2xM63x1.5
355 L	2	698	642	380	75	140	1042	1495	25	1355	414	330	740	680	800	8x24	6	2xM63x1.5
355 L	4,6,8	698	642	380	95	170	1042	1565	25	1395	444	330	740	680	800	8x24	6	2xM63x1.5

CAST IRON MOTOR, MOUNTING B5

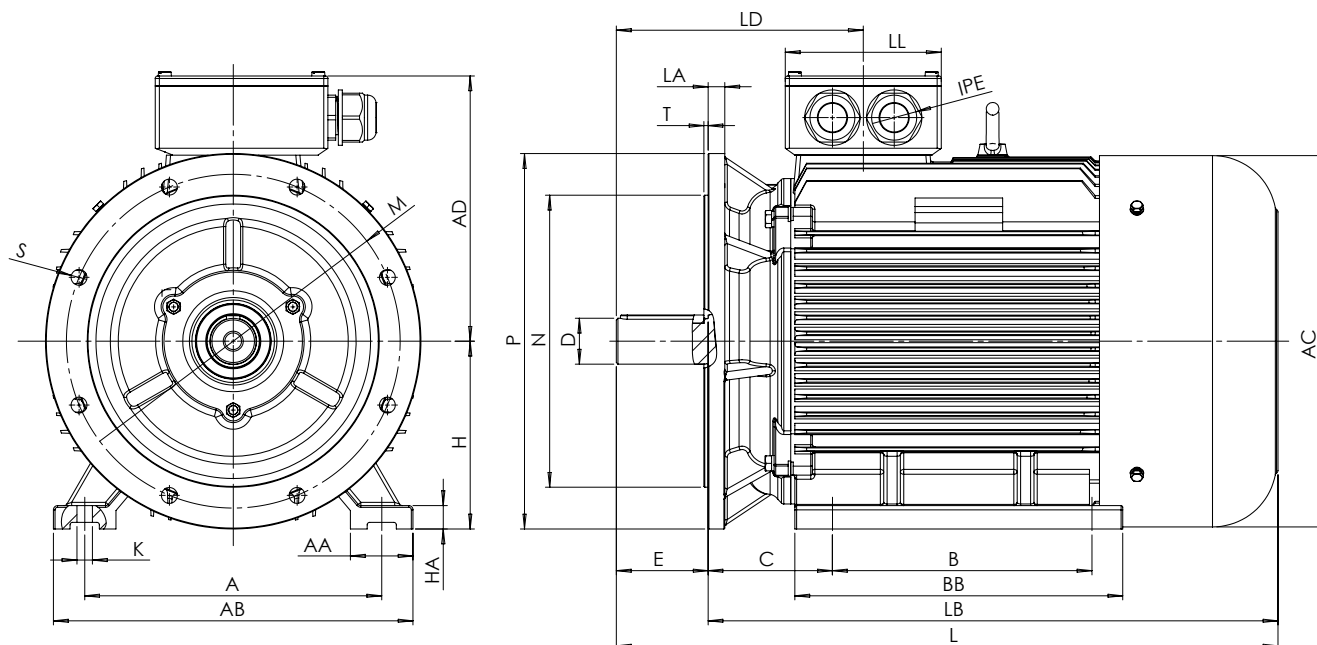
IE3

Frame size		No. of poles	AC	AD	AG	D	E	HD	L	LA	LB	LD	LL	M	N	P	S	T	IPE
160	M	2,4,6,8	314	251	162	42	110	426	589	15	479	256	152	300	250	350	4x18.5	5	2xM40x1.5
160	L	2,4,6,8	314	251	162	42	110	426	633	15	523	256	152	300	250	350	4x18.5	5	2xM40x1.5
180	M	2,4,8	355	267	162	48	110	444.5	661	15	551	271	152	300	250	350	4x18.5	5	2xM40x1.5
180	L	4,6,8	355	267	162	48	110	444.5	699	15	589	271	152	300	250	350	4x18.5	5	2xM40x1.5
200	L	2,4,6,8	397	299	210	55	110	499	757	17	647	296	190	350	300	400	4x18.5	5	2xM50x1.5
225	S	4,8	446	322	210	60	140	547	798	20	658	329	190	400	350	450	8x18.5	5	2xM50x1.5
225	M	2	446	322	210	55	110	547	793	20	683	299	190	400	350	450	8x18.5	5	2xM50x1.5
225	M	4,6,8	446	322	210	60	140	547	823	20	683	329	190	400	350	450	8x18.5	5	2xM50x1.5
250	M	2	485	358	248	60	140	633	900	22	760	347	218	500	450	550	8x18.5	5	2xM63x1.5
250	M	4,6,8	485	358	248	65	140	633	900	22	760	347	218	500	450	550	8x18.5	5	2xM63x1.5
280	S	2	547	387	248	65	140	662	931	22	791	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
280	S	4,6,8	547	387	248	75	140	662	961	22	821	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
280	M	2	547	387	248	65	140	662	982	22	842	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
280	M	4,6,8	547	387	248	75	140	662	1012	22	872	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
315	S	2	620	527	320	65	140	857	1156	22	1016	397	280	600	550	660	8x24	6	2xM63x1.5
315	S	4,6,8	620	527	320	80	170	857	1228	22	1058	427	280	600	550	660	8x24	6	2xM63x1.5
315	M	2	620	527	320	65	140	857	1266	22	1126	397	280	600	550	660	8x24	6	2xM63x1.5
315	M	4,6,8	620	527	320	80	170	857	1338	22	1168	427	280	600	550	660	8x24	6	2xM63x1.5
315	L	2	620	527	320	65	140	857	1266	22	1126	397	280	600	550	660	8x24	6	2xM63x1.5
315	L	4,6,8	620	527	320	80	170	857	1338	22	1168	427	280	600	550	660	8x24	6	2xM63x1.5
355	M	2	698	642	380	75	140	1042	1491	25	1351	414	330	740	680	800	8x24	6	2xM63x1.5
355	M	4,6,8	698	642	380	95	170	1042	1561	25	1391	444	330	740	680	800	8x24	6	2xM63x1.5
355	L	2	698	642	380	75	140	1042	1491	25	1351	414	330	740	680	800	8x24	6	2xM63x1.5
355	L	4,6,8	698	642	380	95	170	1042	1561	25	1391	444	330	740	680	800	8x24	6	2xM63x1.5

IE4

Frame size		No. of poles	AC	AD	AG	D	E	HD	L	LA	LB	LD	LL	M	N	P	S	T	IPE
160	M	2,4,6,8	335	256	162	42	110	431	648	15	538	248	152	300	250	350	4x18.5	5	2xM40x1.5
160	L	2,4,6,8	335	256	162	42	110	431	688	15	578	248	152	300	250	350	4x18.5	5	2xM40x1.5
180	M	2,4,8	363	271	162	48	110	446	711	15	601	271	152	300	250	350	4x18.5	5	2xM40x1.5
180	L	4,6,8	363	271	162	48	110	446	746	15	636	271	152	300	250	350	4x18.5	5	2xM40x1.5
200	L	2,4,6,8	418	312	210	55	110	512	846	17	736	296	190	350	300	400	4x18.5	5	2xM50x1.5
225	S	4,8	465	334	210	60	140	559	880	20	740	330	190	400	350	450	8x18.5	5	2xM50x1.5
225	M	2	465	334	210	55	110	559	885	20	775	299	190	400	350	450	8x18.5	5	2xM50x1.5
225	M	4,6,8	465	334	210	60	140	559	915	20	775	330	190	400	350	450	8x18.5	5	2xM50x1.5
250	M	2	525	379	248	60	140	654	980	22	840	347	220	400	450	550	8x18.5	5	2xM63x1.5
250	M	4,6,8	525	379	248	65	140	654	980	22	840	347	220	500	450	550	8x18.5	5	2xM63x1.5
280	S	2	588	412	248	65	140	687	980	222	840	355	220	500	450	550	8x18.5	5	2xM63x1.5
280	S	4,6,8	588	412	248	75	140	687	980	22	840	355	220	500	450	550	8x18.5	5	2xM63x1.5
280	M	2	588	412	248	65	140	687	1020	22	880	355	220	500	450	550	8x18.5	5	2xM63x1.5
280	M	4,6,8	588	412	248	75	140	687	1020	22	880	355	220	500	450	550	8x18.5	5	2xM63x1.5
315	S	2	620	524	320	65	140	854	1194	22	1054	397	280	600	550	660	8x24	6	2xM63x1.5
315	S	4,6,8	620	524	320	80	170	824	1224	22	1054	427	280	600	550	600	8x24	6	2xM63x1.5
315	M	2	620	524	320	65	140	854	1304	22	1164	397	280	600	550	660	8x24	6	2xM63x1.5
315	M	4,6,8	320	524	320	80	170	854	1334	22	1164	427	280	600	550	660	8x24	6	2xM63x1.5
315	L	2	620	524	320	65	140	854	1304	22	1164	397	280	600	550	660	8x24	6	2xM63x1.5
315	L	4,6,8	620	524	320	80	170	854	1334	22	1164	427	280	600	550	660	8x24	6	2xM63x1.5
355	M	2	698	639	380	75	140	1039	1496	25	1356	422	330	740	680	800	8x24	6	2xM63x1.5
355	M	4,6,8	698	639	380	95	170	1039	1536	25	1366	452	330	740	680	800	8x24	6	2xM63x1.5
355	L	2	698	639	380	75	140	1039	1496	25	1356	422	330	740	680	800	8x24	6	2xM63x1.5
355	L	4,6,8	698	639	380	95	170	1039	1536	25	1366	452	330	740	680	800	8x24	6	2xM63x1.5

CAST IRON MOTOR, MOUNTING B35



IE2

Frame size		No. of poles	A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LA	LB	LD	LL	M	N	P	S	T	IPE
160	M	2,4,6,8	254	65	314	314	251	162	210	260	108	42	110	160	20	4x14.5	608	15	498	256	152	300	250	350	4x18.5	5	2xM40x1.5
160	L	2,4,6,8	254	65	314	314	251	162	254	304	108	42	110	160	20	4x14.5	652	15	542	256	152	300	250	350	4x18.5	5	2xM40x1.5
180	M	2,4,8	279	70	349	355	267	162	241	311	121	48	110	180	22	4x14.5	688	15	578	271	152	300	250	350	4x18.5	5	2xM40x1.5
180	L	4,6,8	279	70	349	355	267	162	279	349	121	48	110	180	22	4x14.5	726	15	616	271	152	300	250	350	4x18.5	5	2xM40x1.5
200	L	2,4,6,8	318	70	388	397	299	210	305	369	133	55	110	200	25	4x18.5	772	17	662	296	190	350	300	400	4x18.5	5	2xM50x1.5
225	S	4,8	356	75	431	446	322	210	286	368	149	60	140	225	28	4x18.5	808	20	668	329	190	400	350	450	8x18.5	5	2xM50x1.5
225	M	2	356	75	431	446	322	210	311	393	149	55	110	225	28	4x18.5	803	20	693	299	190	400	350	450	8x18.5	5	2xM50x1.5
225	M	4,6,8	356	75	431	446	322	210	311	393	149	60	140	225	28	4x18.5	833	20	693	329	190	400	350	450	8x18.5	5	2xM50x1.5
250	M	2	406	80	484	485	358	248	349	445	168	60	140	250	30	4x24	915	22	775	347	218	500	450	550	8x18.5	5	2xM63x1.5
250	M	4,6,8	406	80	484	485	358	248	349	445	168	65	140	250	30	4x24	915	22	775	347	218	500	450	550	8x18.5	5	2xM63x1.5
280	S	2	457	85	542	547	387	248	368	485	190	65	140	280	35	4x24	982	22	842	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
280	S	4,6,8	457	85	542	547	387	248	368	485	190	75	140	280	35	4x24	982	22	842	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
280	M	2	457	85	542	547	387	248	419	536	190	65	140	280	35	4x24	1033	22	893	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
280	M	4,6,8	457	85	542	547	387	248	419	536	190	75	140	280	35	4x24	1033	22	893	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
315	S	2	508	120	628	620	527	320	406	570	216	65	140	315	45	4x28	1185	22	1045	397	280	600	550	660	8x24	6	2xM63x1.5
315	S	4,6,8	508	120	628	620	527	320	406	570	216	80	170	315	45	4x28	1215	22	1045	427	280	600	550	660	8x24	6	2xM63x1.5
315	M	2	508	120	628	620	527	320	457	680	216	65	140	315	45	4x28	1295	22	1155	397	280	600	550	660	8x24	6	2xM63x1.5
315	M	4,6,8	508	120	628	620	527	320	457	680	216	80	170	315	45	4x28	1325	22	1155	427	280	600	550	660	8x24	6	2xM63x1.5
315	L	2	508	120	628	620	527	320	508	680	216	65	140	315	45	4x28	1295	22	1155	397	280	600	550	660	8x24	6	2xM63x1.5
315	L	4,6,8	508	120	628	620	527	320	508	680	216	80	170	315	45	4x28	1325	22	1155	427	280	600	550	660	8x24	6	2xM63x1.5
355	M	2	610	116	726	698	642	380	560	750	254	75	140	355	52	6x28	1495	25	1355	414	330	740	680	800	8x24	6	2xM63x1.5
355	M	4,6,8	610	116	726	698	642	380	560	750	254	95	170	355	52	6x28	1565	25	1395	444	330	740	680	800	8x24	6	2xM63x1.5
355	L	2	610	116	726	698	642	380	630	750	254	75	140	355	52	6x28	1495	25	1355	414	330	740	680	800	8x24	6	2xM63x1.5
355	L	4,6,8	610	116	726	698	642	380	630	750	254	95	170	355	52	6x28	1565	25	1395	444	330	740	680	800	8x24	6	2xM63x1.5

CAST IRON MOTOR, MOUNTING B35

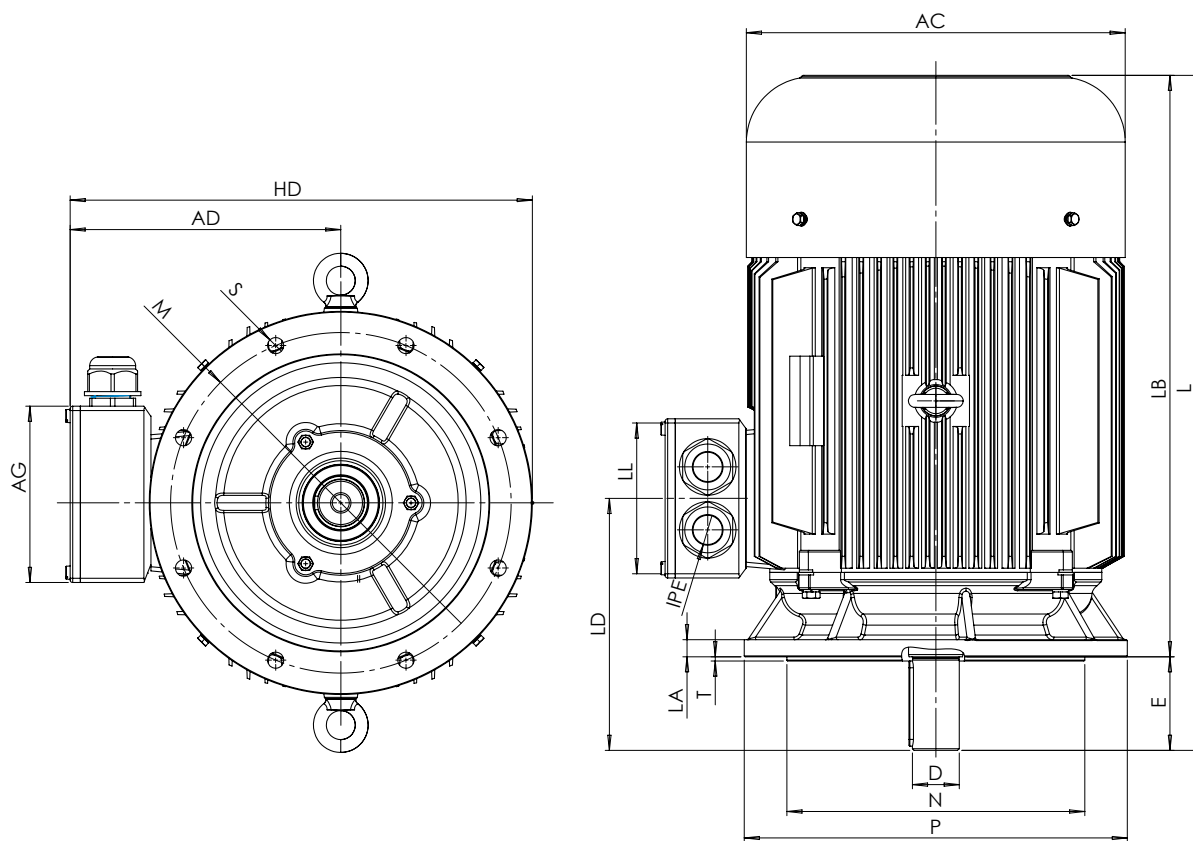
IE3

Frame size		No. of poles	A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LA	LB	LD	LL	M	N	P	S	T	IPE
160	M	2,4,6,8	254	65	314	314	251	162	210	260	108	42	110	160	20	4x14.5	589	15	479	256	152	300	250	350	4x18.5	5	2xM40x1.5
160	L	2,4,6,8	254	65	314	314	251	162	254	304	108	42	110	160	20	4x14.5	633	15	523	256	152	300	250	350	4x18.5	5	2xM40x1.5
180	M	2,4,8	279	70	349	355	267	162	241	311	121	48	110	180	22	4x14.5	661	15	551	271	152	300	250	350	4x18.5	5	2xM40x1.5
180	L	4,6,8	279	70	349	355	267	162	279	349	121	48	110	180	22	4x14.5	699	15	589	271	152	300	250	350	4x18.5	5	2xM40x1.5
200	L	2,4,6,8	318	70	388	397	299	210	305	369	133	55	110	200	25	4x18.5	757	17	647	296	190	350	300	400	4x18.5	5	2xM50x1.5
225	S	4.8	356	75	431	446	322	210	286	368	149	60	140	225	28	4x18.5	798	20	658	329	190	400	350	450	8x18.5	5	2xM50x1.5
225	M	2	356	75	431	446	322	210	311	393	149	55	110	225	28	4x18.5	793	20	683	299	190	400	350	450	8x18.5	5	2xM50x1.5
225	M	4,6,8	356	75	431	446	322	210	311	393	149	60	140	225	28	4x18.5	823	20	683	329	190	400	350	450	8x18.5	5	2xM50x1.5
250	M	2	406	80	484	485	358	248	349	445	168	60	140	250	30	4x24	900	22	760	347	218	500	450	550	8x18.5	5	2xM63x1.5
250	M	4,6,8	406	80	484	485	358	248	349	445	168	65	140	250	30	4x24	900	22	760	347	218	500	450	550	8x18.5	5	2xM63x1.5
280	S	2	457	85	542	547	387	248	368	485	190	65	140	280	35	4x24	931	22	791	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
280	S	4,6,8	457	85	542	547	387	248	368	485	190	75	140	280	35	4x24	961	22	821	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
280	M	2	457	85	542	547	387	248	419	536	190	65	140	280	35	4x24	982	22	842	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
280	M	4,6,8	457	85	542	547	387	248	419	536	190	75	140	280	35	4x24	1012	22	872	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
315	S	2	508	120	628	620	527	320	406	570	216	65	140	315	45	4x28	1156	22	1016	397	280	600	550	660	8x24	6	2xM63x1.5
315	S	4,6,8	508	120	628	620	527	320	406	570	216	80	170	315	45	4x28	1228	22	1058	427	280	600	550	660	8x24	6	2xM63x1.5
315	M	2	508	120	628	620	527	320	457	680	216	65	140	315	45	4x28	1266	22	1126	397	280	600	550	660	8x24	6	2xM63x1.5
315	M	4,6,8	508	120	628	620	527	320	457	680	216	80	170	315	45	4x28	1338	22	1168	427	280	600	550	660	8x24	6	2xM63x1.5
315	L	2	508	120	628	620	527	320	508	680	216	65	140	315	45	4x28	1266	22	1126	397	280	600	550	660	8x24	6	2xM63x1.5
315	L	4,6,8	508	120	628	620	527	320	508	680	216	80	170	315	45	4x28	1338	22	1168	427	280	600	550	660	8x24	6	2xM63x1.5
355	M	2	610	116	726	698	642	380	560	750	254	75	140	355	52	6x28	1491	25	1351	414	330	740	680	800	8x24	6	2xM63x1.5
355	M	4,6,8	610	116	726	698	642	380	560	750	254	95	170	355	52	6x28	1561	25	1391	444	330	740	680	800	8x24	6	2xM63x1.5
355	L	2	610	116	726	698	642	380	630	750	254	75	140	355	52	6x28	1491	25	1351	414	330	740	680	800	8x24	6	2xM63x1.5
355	L	4,6,8	610	116	726	698	642	380	630	750	254	95	170	355	52	6x28	1561	25	1391	444	330	740	680	800	8x24	6	2xM63x1.5

IE4

Frame size		No. of poles	A	AA	AB	AC	AD	AG	B	BB	C	D	E	H	HA	K	L	LA	LB	LD	LL	M	N	P	S	T	IPE
160	M	2,4,6,8	254	65	314	335	256	162	210	315	108	42	110	160	20	4x14.5	648	15	538	248	152	300	250	350	4x18.5	5	2xM40x1.5
160	L	2,4,6,8	254	65	314	335	256	162	254	355	108	42	110	160	20	4x14.5	688	15	578	248	152	300	250	350	4x18.5	5	2xM40x1.5
180	M	2,4,8	279	70	349	363	271	162	241	359	121	48	110	180	22	4x14.5	711	15	601	271	152	300	250	350	4x18.5	5	2xM40x1.5
180	L	4,6,8	279	70	349	363	271	162	279	360	121	48	110	180	22	4x14.5	746	15	636	271	152	300	250	350	4x18.5	5	2xM40x1.5
200	L	2,4,6,8	318	70	395	418	312	210	305	372	133	55	110	200	25	4x18.5	846	17	736	296	190	350	300	400	4x18.5	5	2xM50x1.5
225	S	4.8	356	75	431	465	334	210	286	431	149	60	140	225	28	4x18.5	880	20	740	330	190	400	350	450	8x18.5	5	2xM50x1.5
225	M	2	356	75	431	465	334	210	311	466	149	55	110	225	28	4x18.5	885	20	775	299	190	400	350	450	8x18.5	5	2xM50x1.5
225	M	4,6,8	356	75	431	465	334	210	311	466	149	60	140	225	28	4x18.5	915	20	775	330	190	400	350	450	8x18.5	5	2xM50x1.5
250	M	2	406	80	484	525	379	248	349	515	168	60	140	250	30	4x24	980	22	840	347	220	400	450	550	8x18.5	5	2xM63x1.5
250	M	4,6,8	406	80	484	525	379	248	349	515	168	65	140	250	30	4x24	980	22	840	347	220	500	450	550	8x18.5	5	2xM63x1.5
280	S	2	457	85	542	588	412	248	368	510	190	65	140	280	35	4x24	980	22	840	355	220	500	450	550	8x18.5	5	2xM63x1.5
280	S	4,6,8	457	85	542	588	412	248	368	510	190	75	140	280	35	4x24	980	22	840	355	220	500	450	550	8x18.5	5	2xM63x1.5
280	M	2	457	85	542	588	412	248	419	550	190	65	140	280	35	4x24	1020	22	880	355	220	500	450	550	8x18.5	5	2xM63x1.5
280	M	4,6,8	457	85	542	588	412	248	419	550	190	75	140	280	35	4x24	1020	22	880	355	220	500	450	550	8x18.5	5	2xM63x1.5
315	S	2	508	120	628	620	524	320	406	570	216	65	140	315	45	4x28	1194	22	1054	397	280	600	550	660	8x24	6	2xM63x1.5
315	S	4,6,8	508	120	628	620	524	320	406	570	216	80	170	315	45	4x28	1224	22	1054	427	280	600	550	660	8x24	6	2xM63x1.5
315	M	2	508	120	628	620	524	320	457	680	216	65	140	315	45	4x28	1304	22	1164	397	280	600	550	660	8x24	6	2xM63x1.5
315	M	4,6,8	508	120	628	620	524	320	457	680	216	80	170	315	45	4x28	1334	22	1164	427	280	600	550	660	8x24	6	2xM63x1.5
315	L	2	508	120	628	620	524	320	508	680	216	65	140	315	45	4x28	1304	22	1164	397	280	600	550	660	8x24	6	2xM63x1.5
315	L	4,6,8	508	120	628	620	524	320	508	680	216	80	170	315	45	4x28	1334	22	1164	427	280	600	550	660	8x24	6	2xM63x1.5
355	M	2	610	116	726	698	639	380	560	750	254	75	140	355	52	4x28	1496	25	1356	422	330	740	680	800	8x24	6	2xM63x1.5
355	M	4,6,8	610	116	726	698	639	380	560	750	254	95	170	355	52	4x28	1536	25	1366	452	330	740	680	800	8x24	6	2xM63x1.5
355	L	2	610	116	726	698	639	380	630	750	254	75	140	355	52	4x28	1496	25	1356	422	330	740	680	800	8x24	6	2xM63x1.5
355	L	4,6,8	610	116	726	698	639	380	630	750	254	95	170	355	52	4x28	1536	25	1366	452	330	740	680	800	8x24	6	2xM63x1.5

CAST IRON MOTOR, MOUNTING V1



IE2

Frame size	No. of poles	AC	AD	AG	D	E	HD	L	LA	LB	LD	LL	M	N	P	S	T	IPE
160 M	2,4,6,8	314	251	162	42	110	426	608	15	498	256	152	300	250	350	4x18.5	5	2xM40x1.5
160 L	2,4,6,8	314	251	162	42	110	426	652	15	542	256	152	300	250	350	4x18.5	5	2xM40x1.5
180 M	2,4,8	355	267	162	48	110	444.5	688	15	578	271	152	300	250	350	4x18.5	5	2xM40x1.5
180 L	4,6,8	355	267	162	48	110	444.5	726	15	616	271	152	300	250	350	4x18.5	5	2xM40x1.5
200 L	2,4,6,8	397	299	210	55	110	499	772	17	662	296	190	350	300	400	4x18.5	5	2xM50x1.5
225 S	4,8	446	322	210	60	140	547	808	20	668	329	190	400	350	450	8x18.5	5	2xM50x1.5
225 M	2	446	322	210	55	110	547	803	20	693	299	190	400	350	450	8x18.5	5	2xM50x1.5
225 M	4,6,8	446	322	210	60	140	547	833	20	693	329	190	400	350	450	8x18.5	5	2xM50x1.5
250 M	2	485	358	248	60	140	633	915	22	775	347	218	500	450	550	8x18.5	5	2xM63x1.5
250 M	4,6,8	485	358	248	65	140	633	915	22	775	347	218	500	450	550	8x18.5	5	2xM63x1.5
280 S	2	547	387	248	65	140	662	982	22	842	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
280 S	4,6,8	547	387	248	75	140	662	982	22	842	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
280 M	2	547	387	248	65	140	662	1033	22	893	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
280 M	4,6,8	547	387	248	75	140	662	1033	22	893	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
315 S	2	620	527	320	65	140	857	1185	22	1045	397	280	600	550	660	8x24	6	2xM63x1.5
315 S	4,6,8	620	527	320	80	170	857	1215	22	1045	427	280	600	550	660	8x24	6	2xM63x1.5
315 M	2	620	527	320	65	140	857	1295	22	1155	397	280	600	550	660	8x24	6	2xM63x1.5
315 M	4,6,8	620	527	320	80	170	857	1325	22	1155	427	280	600	550	660	8x24	6	2xM63x1.5
315 L	2	620	527	320	65	140	857	1295	22	1155	397	280	600	550	660	8x24	6	2xM63x1.5
315 L	4,6,8	620	527	320	80	170	857	1325	22	1155	427	280	600	550	660	8x24	6	2xM63x1.5
355 M	2	698	642	380	75	140	1042	1495	25	1355	414	330	740	680	800	8x24	6	2xM63x1.5
355 M	4,6,8	698	642	380	95	170	1042	1565	25	1395	444	330	740	680	800	8x24	6	2xM63x1.5
355 L	2	698	642	380	75	140	1042	1495	25	1355	414	330	740	680	800	8x24	6	2xM63x1.5
355 L	4,6,8	698	642	380	95	170	1042	1565	25	1395	444	330	740	680	800	8x24	6	2xM63x1.5

CAST IRON MOTOR, MOUNTING V1

IE3

Frame size		No. of poles	AC	AD	AG	D	E	HD	L	LA	LB	LD	LL	M	N	P	S	T	IPE
160	M	2,4,6,8	314	251	162	42	110	426	589	15	479	256	152	300	250	350	4x18.5	5	2xM40x1.5
160	L	2,4,6,8	314	251	162	42	110	426	633	15	523	256	152	300	250	350	4x18.5	5	2xM40x1.5
180	M	2,4,8	355	267	162	48	110	444.5	661	15	551	271	152	300	250	350	4x18.5	5	2xM40x1.5
180	L	4,6,8	355	267	162	48	110	444.5	699	15	589	271	152	300	250	350	4x18.5	5	2xM40x1.5
200	L	2,4,6,8	397	299	210	55	110	499	757	17	647	296	190	350	300	400	4x18.5	5	2xM50x1.5
225	S	4.8	446	322	210	60	140	547	798	20	658	329	190	400	350	450	8x18.5	5	2xM50x1.5
225	M	2	446	322	210	55	110	547	793	20	683	299	190	400	350	450	8x18.5	5	2xM50x1.5
225	M	4,6,8	446	322	210	60	140	547	823	20	683	329	190	400	350	450	8x18.5	5	2xM50x1.5
250	M	2	485	358	248	60	140	633	900	22	760	347	218	500	450	550	8x18.5	5	2xM63x1.5
250	M	4,6,8	485	358	248	65	140	633	900	22	760	347	218	500	450	550	8x18.5	5	2xM63x1.5
280	S	2	547	387	248	65	140	662	931	22	791	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
280	S	4,6,8	547	387	248	75	140	662	961	22	821	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
280	M	2	547	387	248	65	140	662	982	22	842	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
280	M	4,6,8	547	387	248	75	140	662	1012	22	872	355.5	218	500	450	550	8x18.5	5	2xM63x1.5
315	S	2	620	527	320	65	140	857	1156	22	1016	397	280	600	550	660	8x24	6	2xM63x1.5
315	S	4,6,8	620	527	320	80	170	857	1228	22	1058	427	280	600	550	660	8x24	6	2xM63x1.5
315	M	2	620	527	320	65	140	857	1266	22	1126	397	280	600	550	660	8x24	6	2xM63x1.5
315	M	4,6,8	620	527	320	80	170	857	1338	22	1168	427	280	600	550	660	8x24	6	2xM63x1.5
315	L	2	620	527	320	65	140	857	1266	22	1126	397	280	600	550	660	8x24	6	2xM63x1.5
315	L	4,6,8	620	527	320	80	170	857	1338	22	1168	427	280	600	550	660	8x24	6	2xM63x1.5
355	M	2	698	642	380	75	140	1042	1491	25	1351	414	330	740	680	800	8x24	6	2xM63x1.5
355	M	4,6,8	698	642	380	95	170	1042	1561	25	1391	444	330	740	680	800	8x24	6	2xM63x1.5
355	L	2	698	642	380	75	140	1042	1491	25	1351	414	330	740	680	800	8x24	6	2xM63x1.5
355	L	4,6,8	698	642	380	95	170	1042	1561	25	1391	444	330	740	680	800	8x24	6	2xM63x1.5

IE4

Frame size		No. of poles	AC	AD	AG	D	E	HD	L	LA	LB	LD	LL	M	N	P	S	T	IPE
160	M	2,4,6,8	335	256	162	42	110	431	648	15	538	248	152	300	250	350	4x18.5	5	2xM40x1.5
160	L	2,4,6,8	335	256	162	42	110	431	688	15	578	248	152	300	250	350	4x18.5	5	2xM40x1.5
180	M	2,4,8	363	271	162	48	110	446	711	15	601	271	152	300	250	350	4x18.5	5	2xM40x1.5
180	L	4,6,8	363	271	162	48	110	446	746	15	636	271	152	300	250	350	4x18.5	5	2xM40x1.5
200	L	2,4,6,8	418	312	210	55	110	512	846	17	736	296	190	350	300	400	4x18.5	5	2xM50x1.5
225	S	4.8	465	334	210	60	140	559	880	20	740	330	190	400	350	450	8x18.5	5	2xM50x1.5
225	M	2	465	334	210	55	110	559	885	20	775	299	190	400	350	450	8x18.5	5	2xM50x1.5
225	M	4,6,8	465	334	210	60	140	559	915	20	775	330	190	400	350	450	8x18.5	5	2xM50x1.5
250	M	2	525	379	248	60	140	654	980	22	840	347	220	400	450	550	8x18.5	5	2xM63x1.5
250	M	4,6,8	525	379	248	65	140	654	980	22	840	347	220	500	450	550	8x18.5	5	2xM63x1.5
280	S	2	588	412	248	65	140	687	980	222	840	355	220	500	450	550	8x18.5	5	2xM63x1.5
280	S	4,6,8	588	412	248	75	140	687	980	22	840	355	220	500	450	550	8x18.5	5	2xM63x1.5
280	M	2	588	412	248	65	140	687	1020	22	880	355	220	500	450	550	8x18.5	5	2xM63x1.5
280	M	4,6,8	588	412	248	75	140	687	1020	22	880	355	220	500	450	550	8x18.5	5	2xM63x1.5
315	S	2	620	524	320	65	140	854	1194	22	1054	397	280	600	550	660	8x24	6	2xM63x1.5
315	S	4,6,8	620	524	320	80	170	824	1224	22	1054	427	280	600	550	600	8x24	6	2xM63x1.5
315	M	2	620	524	320	65	140	854	1304	22	1164	397	280	600	550	660	8x24	6	2xM63x1.5
315	M	4,6,8	320	524	320	80	170	854	1334	22	1164	427	280	600	550	660	8x24	6	2xM63x1.5
315	L	2	620	524	320	65	140	854	1304	22	1164	397	280	600	550	660	8x24	6	2xM63x1.5
315	L	4,6,8	620	524	320	80	170	854	1334	22	1164	427	280	600	550	660	8x24	6	2xM63x1.5
355	M	2	698	639	380	75	140	1039	1496	25	1356	422	330	740	680	800	8x24	6	2xM63x1.5
355	M	4,6,8	698	639	380	95	170	1039	1536	25	1366	452	330	740	680	800	8x24	6	2xM63x1.5
355	L	2	698	639	380	75	140	1039	1496	25	1356	422	330	740	680	800	8x24	6	2xM63x1.5
355	L	4,6,8	698	639	380	95	170	1039	1536	25	1366	452	330	740	680	800	8x24	6	2xM63x1.5

Abbreviations & acronyms

Short sign	Translation
V	Voltage
A	Current
rpm or min-1	Speed
η	Efficiency
$\cos \varphi$	Power factor
I_a/I_n	Starting current factor
T_a/T_n or M_a/M_n	Starting torque factor
T_k/T_n or M_k/M_n	Breakdown torque factor
$F_R X_{max}$	Maximum permissible radial force at shaft end
$F_R X/2$	Maximum permissible radial force at shaft center
$F_R X_o$	Maximum permissible radial force at flange surface (shaft recess)
F_A	Maximum permissible axial force, horizontal mounting
$F_A V_1$	Maximum permissible axial force, vertical mounting



Version 4/2018

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