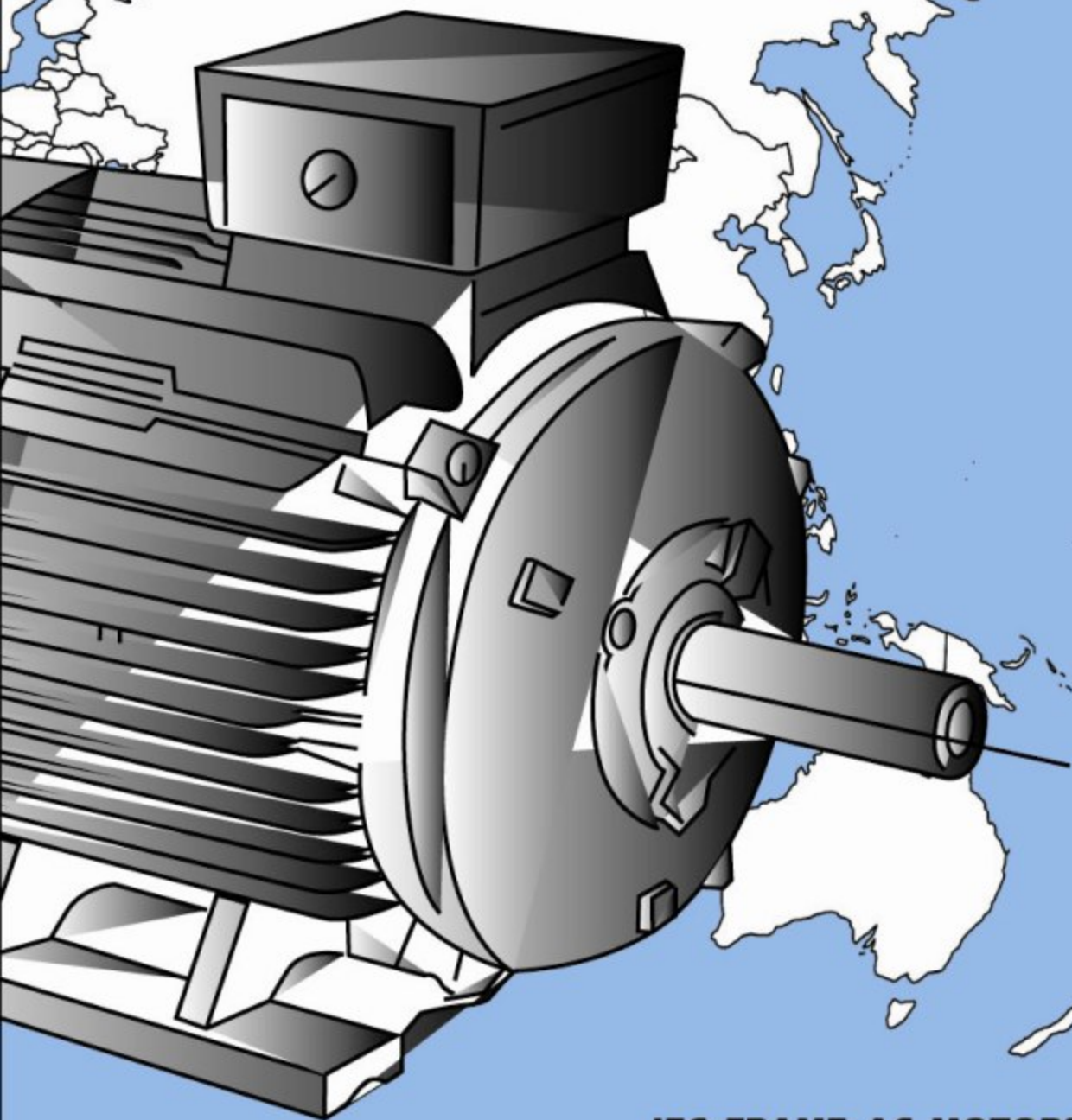


PRODUCT CATALOGUE

**LOW VOLTAGE THREE PHASE
ELECTRIC MOTOR**



**IEC FRAME AC MOTORS
CAST IRON MULTI-MOUNTED UNITS**



Globetrotter

IEC AC Motors

INTRODUCTION

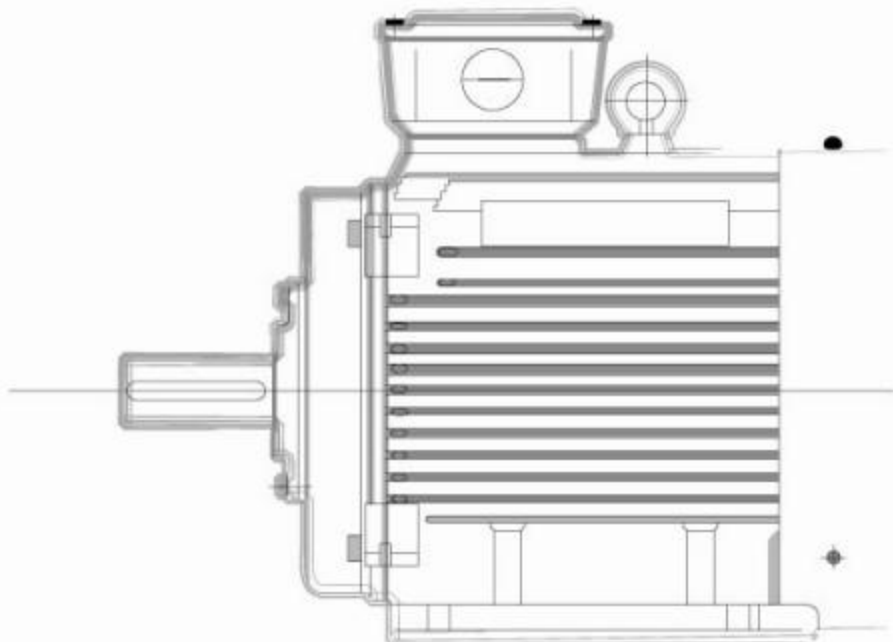
Global IEC Motors

Since 1913, Marathon Electric's name has been recognized for engineering excellence, customer designed products and extensive product line of industrial quality motors. Marathon Electric's **Globetrotter**[®] IEC motor meets IEC Design N and NEMA Design B torque characteristics.

Our **Globetrotter**[®] IEC motor is designed from the ground up to meet or exceed all major international standards including NEMA. The cast iron **Globetrotter**[®] motor incorporates advanced features such as an inverter duty insulation system and encoder provisions for both open and closed loop drive systems.

Additional features include dual voltages and frequencies to meet most international standards without having to re-rate the motor, saving time and money. Cast iron constructions are available from 63 through 400 Frame with a rolled steel fan cover. A cast iron fan guard kit is available for severe duty applications. Complies with EFF2 standard and designed to meet IP55 enclosure requirements makes the **Globetrotter**[®] suitable for washdown.

The **Globetrotter**[®] meets or exceeds IEC 34 and 72 electrical and mechanical standards along with meeting EFF2 European, EPAAct, and NRCAN Canadian efficiencies. Additionally, the **Globetrotter**[®] meets IEEE 45, IEC 60092, and USCG Standards for marine duty motors and complies with the Conformite Europeene (CE).



Quality IEC AC Motors

Motors That Run the Toughest Applications



Globetrotter IEC AC MOTOR

- Meets EFF2 European, EPAct, and NRCan Canadian efficiencies
- IP55 weatherproof construction for the toughest environments
- Power matched for use with all AC drive manufacturers
- Wye Start-Delta Run on 112 frames and larger
- Class B rise @ nameplate kW
- Design "N" with NEMA "B" torque
- Designed to meet IEC 34 and 72 Electrical and Mechanical Standards
- 0.18 kW through 37 kW stock motors with product availability through 560 kW
- B3, B5, B35 mounting (B14, B34, V1 ordered)
- Cast Iron Frames 100 through 400
- Rolled Steel Fan Guard (Cast Iron Fan Guard kit available)
- Conduit Box on Cast Iron on Frames 63 through 400. Top mounted with 90 degree
- Stud-type Terminal Blocks
- Leads Marked with IEC and NEMA Designations
- Shaft Seals
- CE Approved
- Meets IEEE45, IEC 60092, and USCG for Marine Duty
- 12/24 Month Warranty



Globetrotter IEC AC Motor Performance

Specifications	NEMA Design B	IEC Design N	Globetrotter® Design	Benefit of Globetrotter® Design
Breakdown Torque	175 to 300%	160 to 200%	175 to 300%	Higher Breakdown Torque
Lock Rotor Torque	70 to 275%	75 to 190%	75 to 275%	Higher Lock Rotor Torque
Pull Up Torque	65 to 190%	Not Defined	65 to 190%	
Slip Lock Rotor Current	.5 to 5% 600 to 800% of FLA range per MG2	.5 to 3% 800 to 1000% of FLA	.5 to 3% 600 to 800% of FLA	Lower Inrush Current
Voltage Tolerances	+/- 10%	+/- 5%	+/- 10%	Wider voltage tolerance and still meets load requirements
Frequency Tolerances	+/- 5%	+/- 3%	+/- 5%	Wider frequency tolerance and still meets load requirements
Service Factor	1.0 or 1.15	Not Defined	1.15 on 60 Hz	Meets Nameplate kW on 50 Hz



Standards

Standard

- Designed and Manufactured to IEC34, IEC72 & DIN 42373

Motor Type

- SCIM, EFF2, General Purpose

Voltage and Frequency

- 3 Phase, 50 Hz.
- Up to 112 Frame: 220Δ/380Y
- 132 Frame and above: 380Δ/660Y, 400Δ/690Y 415Δ/719Y

Power Condition

- Voltage Variable: +/- 10%
- Frequency Variable: +/- 5%
- Combined Voltage and Frequency Variable: +/- 5%

Duty Rating

- Motor are all continuously maximum rated
- Type - S1

Cooling Method

- IC411 according to IEC 60034-6

Degree of Protection

- IP55, TEFC (Totally Enclosed Fan Cooled)

Noise

- Noise levels comply limits set by IEC 60034-9

Vibration

- Motor meets limits of vibration severity set out by IEC 60034-14

Construction

- Cast Iron Frame
- Cast Iron Endshields
- Cast Iron Terminal Box
- Steel Fan Cowl
- Cooling Fan - Plastic Anti-Static

Stator and Windings

- High grade insulated cold rolled electromagnetic steel lamination (0.5mm Thickness). Windings are random wound double enameled copper wire and Vacuum Pressure impregnated with a solvent less resin

Insulation Class / Temperature Rise

- Class F insulation
- B Class Limit Temperature Rise

Winding Protection

- 11 kW and higher are fitted with PTC thermistor protection within the windings (one per phase) operate at 160 c° for tripping

Cable Entries

- Suit metric glands
- Terminal Boxes Top mount

Rotor Balancing

- Rotors have been dynamically balanced to according to Class N AS1359.50
- Squirrel Cage Rotor - Pressure Aluminum Die Cast and Balanced

Rotation

- All Standard motors are suitable for operation in either direction of rotation

Bearing

- Make - SKF or NSK
- Motor rated up to including 7.5kW will be fitted with grease-lubricated deep-groove ball bearing
- 11kW and above have Regreasing Nipples
- Bearings - B10 basic rating life

Surface Finish

- Surface preparation to grade SA2.5
- One coat of synthetic alkyd Primer
- One coat of synthetic alkyd Enamel
- Colour - Blue

Optional Features

- Space Heater
- Heat Protector
- Vibration detector
- Spacial Mounting Dimension and Shaft Dimension
- Low Vibration and Low Noise
- Bearing Thermometer PT100
- Winding Thermometer PT100
- Special Paint

How to read a Model Number

Example 200L T F C 0304 B - E2
 1 2 3 4 5 6 7

1 IEC Frame Size

2 **Electrical Type**
 T = Three Phase

3 Enclosure

D = Dripproof
 F = Totally enclosed, fan cooled
 O = Open
 T = Totally enclosed, non-ventilated

4 Frame Construction

B = Rolled Steel - Sourced
 C = Cast Iron - Sourced
 H = Aluminum - Sourced

5 Sequence Number

6 Mounting Type

B = B3
 F = B35
 E = B5
 V = V1
 S = B14

7 Motor Series

2 Poles

Model	Rated Output		Speed rpm	Current 400V A	Efficiency η%	Power Factor cos φ	Full load Torque N.m.	Moment of inertia J.kg.m ²	Weight kg
	Frame & KW	HP							
63K TFC 0182B - E2	63K-0.18	0.24	2720	0.50	65.2	0.80	0.63	0.0002	10
63G TFC 0252B - E2	63G-0.25	0.33	2730	0.65	68.4	0.81	0.87	0.0002	11
71K TFC 0372B - E2	71K-0.37	0.50	2807	0.96	67.7	0.82	1.26	0.0003	14
71G TFC 0652B - E2	71G-0.55	0.75	2841	1.28	76.0	0.82	1.85	0.0005	15
80K TFC 0752B - E2	80K-0.75	1	2870	1.77	75.8	0.81	2.50	0.0009	16
80G TFC 0112B - E2	80G-1.1	1.5	2875	2.39	79.0	0.84	3.65	0.0001	17
90S TFC 0152B - E2	90S-1.5	2	2840	3.35	79.0	0.82	5.04	0.0015	22
90L TFC 0222B - E2	90L-2.2	3	2855	4.54	81.1	0.86	7.36	0.0019	25
100L TFC 0032B - E2	100L-3	4	2867	5.99	83.2	0.87	10.0	0.0033	33
112M TFC 0042B - E2	112M-4	5.5	2862	7.34	84.8	0.93	13.3	0.0055	40
132S TFC 0552B - E2	132S-5.5	7.5	2890	10.4	86.0	0.89	18.2	0.0138	59
132S TFC 0752B - E2	132SX-7.5	10	2878	13.7	87.2	0.91	24.9	0.0146	62
160M TFC 0112B - E2	160M-11	15	2925	20.2	88.4	0.89	35.9	0.0442	107
160M TFC 0152B - E2	160MX-15	20	2931	26.4	89.4	0.92	48.9	0.0549	117
160L TFC 1852B - E2	160L-18.5	25	2938	32.8	90.4	0.90	60.1	0.0654	134
180M TFC 0222B - E2	180M-22	30	2951	38.2	90.5	0.92	71.2	0.0955	169
200L TFC 0302B - E2	200L-30	40	2952	52.1	91.4	0.91	97.0	0.153	220
200L TFC 0372B - E2	200LX-37	50	2950	63.7	92.1	0.91	119.8	0.173	239
225M TFC 0452B - E2	225M-45	60	2962	77.6	92.6	0.90	145.1	0.268	297
250M TFC 0552B - E2	250M-55	75	2966	95.1	93.0	0.90	177.1	0.365	377
280S TFC 0752B - E2	280S-75	100	2974	127.0	93.8	0.91	240.8	0.601	510
280M TFC 0902B - E2	280M-90	120	2951	152.0	93.9	0.91	290.3	0.683	540
315S TFC 1102B - E2	315S-110	150	2974	187.0	94.2	0.90	353.2	1.408	920
315M TFC 1322B - E2	315M-132	180	2972	221.0	94.8	0.91	424.1	1.558	970
315L TFC 1602B - E2	315L-160	215	2974	266.0	95.0	0.92	513.7	1.726	1080
315L TFC 2002B - E2	315LX-200	270	2972	333.0	95.4	0.91	642.6	1.941	1170
355M TFC 2502B - E2	355M-250	335	2985	418.0	95.9	0.90	799.8	3.296	1690
355L TFC 2802B - E2	355L-280	375	2977	470.0	95.5	0.90	898.2	3.849	1775
355L TFC 3152B - E2	355LX-315	420	2988	527.0	95.8	0.90	1006.7	3.95	1860
400M TFC 3552B - E2	400M-355	475	2986	597.0	95.3	0.90	1135.3	7.45	2850
400M TFC 4002B - E2	400MX-400	535	2988	667.0	96.2	0.90	1278.3	7.95	2950
400M TFC 4502B - E2	400MY-450	600	2988	753.0	95.8	0.90	1438.1	8.6	3200
400L TFC 5002B - E2	400L-500	670	2988	829.0	95.9	0.91	1597.9	9.6	3340

4 Poles

Model	Rated Output		Speed rpm	Current 400V A	Efficiency η%	Power Factor cos φ	Full load Torque N.m.	Moment of inertia J.kg.m ²	Weight kg
	Frame & KW	HP							
63K TFC 0124B - E2	63K-0.12	0.16	1340	0.42	57.8	0.71	0.86	0.0003	10
63G TFC 0184B - E2	63G-0.18	0.24	1330	0.59	60.4	0.72	1.29	0.0004	11
71K TFC 0254B - E2	71K-0.25	0.33	1400	0.75	66.0	0.73	1.71	0.0006	14
71G TFC 0374B - E2	71G-0.37	0.5	1382	1.07	68.4	0.73	2.56	0.0007	15
80K TFC 0554B - E2	80K-0.55	0.75	1410	1.49	72.3	0.74	3.72	0.0013	15
80G TFC 0754B - E2	80G-0.75	1	1405	1.89	73.4	0.78	5.10	0.0015	16
90S TFC 0114B - E2	90S-1.1	1.5	1395	2.66	76.3	0.78	7.53	0.0021	22
90L TFC 0154B - E2	90L-1.5	2	1412	3.51	78.6	0.78	10.1	0.0029	27
100L TFC 0224B - E2	100L-2.2	3	1431	4.83	81.3	0.81	14.7	0.0061	34
100L TFC 0034B - E2	100LX-3	4	1431	6.52	82.7	0.80	20.0	0.0078	38
112M TFC 0044B - E2	112M-4	5.5	1438	8.06	84.6	0.85	26.6	0.0118	44
132S TFC 0554B - E2	132S-5.5	7.5	1445	11.1	85.7	0.84	36.3	0.0247	61
132M TFC 0754B - E2	132M-7.5	10	1445	14.4	87.3	0.86	49.6	0.033	73
160M TFC 0114B - E2	160M-11	15	1451	20.9	88.5	0.86	72.4	0.0808	113
160L TFC 0154B - E2	160L-15	20	1452	28.1	89.5	0.86	98.6	0.1052	133
180M TFC 1854B - E2	180M-18.5	25	1465	33.2	90.5	0.89	120.6	0.1499	167
180L TFC 0224B - E2	180L-22	30	1464	39.9	90.7	0.88	143.5	0.1659	181
200L TFC 0304B - E2	200L-30	40	1468	53.8	91.6	0.88	195.1	0.273	232
225S TFC 0374B - E2	225S-37	50	1472	67.0	92.0	0.87	240.0	0.469	287
225M TFC 0454B - E2	225M-45	60	1477	80.6	92.6	0.87	290.9	0.538	322
250M TFC 0554B - E2	250M-55	75	1477	97.0	93.0	0.88	355.6	0.689	381
280S TFC 0754B - E2	280S-75	100	1481	130.0	93.7	0.89	483.6	1.267	510
280M TFC 0904B - E2	280M-90	120	1481	154.7	94.1	0.89	580.3	1.552	600
315S TFC 1104B - E2	315S-110	150	1485	193.0	94.5	0.87	707.4	2.98	921
315M TFC 1324B - E2	315M-132	180	1485	226.0	94.7	0.89	848.8	3.48	1002
315L TFC 1604B - E2	315L-160	215	1486	268.0	95.0	0.91	1028.2	3.678	1070
315L TFC 2004B - E2	315LX-200	270	1485	340.0	95.5	0.89	1286.1	4.47	1181
355M TFC 2504B - E2	355M-250	335	1491	423.0	95.8	0.89	1601.2	7.164	1720
355L TFC 2804B - E2	355L-280	375	1490	474.0	95.9	0.89	1794.5	7.903	1850
355L TFC 3154B - E2	355LX-315	420	1490	532.0	96.0	0.89	2018.8	8.702	1950
400M TFC 3554B - E2	400M-355	475	1490	599.0	96.2	0.89	2275.2	13.5	2900
400M TFC 4004B - E2	400MX-400	535	1491	673.0	96.3	0.89	2561.8	14.9	3000
400M TFC 4504B - E2	400MY-450	600	1489	753.0	95.8	0.90	2885.9	16.1	3150
400L TFC 5004B - E2	400L-500	670	1492	834.0	96.1	0.90	3200.2	17.3	3300
400L TFC 5604B - E2	400LX-560	750	1492	956.0	96.0	0.88	3584.2	19.5	3460

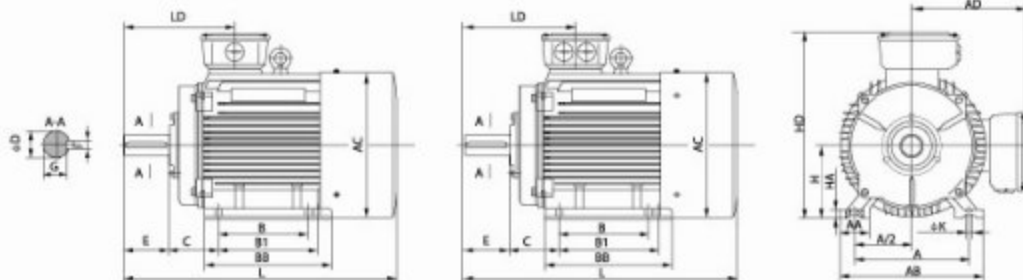
PERFORMANCE DATA

6 Poles

Model	Rated Output		Speed rpm	Current 400V A	Efficiency η%	Power Factor cos φ	Full load Torque N.m.	Moment of inertia Jkgm ²	Weight kg
	Frame & kW	HP							
71K TFC 01868 - E2	71K-0.18	0.24	906	0.69	57.8	0.65	1.90	0.0009	14
71G TFC 02568 - E2	71G-0.25	0.33	891	0.88	60.9	0.67	2.68	0.0011	15
80K TFC 03768 - E2	80K-0.37	0.5	905	1.20	62.1	0.72	3.90	0.0015	15
80G TFC 05568 - E2	80G-0.55	0.75	910	1.65	65.5	0.73	5.77	0.0019	16
90S TFC 07568 - E2	90S-0.75	1	922	2.18	69.3	0.72	7.77	0.003	23
90L TFC 01168 - E2	90L-1.1	1.5	918	3.00	73.0	0.73	11.4	0.0039	25
100L TFC 01568 - E2	100L-1.5	2	933	3.76	76.3	0.76	15.4	0.0075	33
112M TFC 02268 - E2	112M-2.2	3	946	5.01	79.8	0.80	22.2	0.0132	39
132S TFC 00368 - E2	132S-3	4	965	7.00	81.4	0.76	29.7	0.0282	56
132M TFC 00468 - E2	132M-4	5.5	965	9.00	82.3	0.78	39.6	0.0372	71
132M TFC 05568 - E2	132MX-5.5	7.5	967	11.8	84.0	0.80	54.3	0.0489	75
160M TFC 07568 - E2	160M-7.5	10	968	16.1	86.5	0.78	74.0	0.0877	108
160L TFC 01168 - E2	160L-11	15	966	21.8	87.9	0.83	108.7	0.1212	131
180L TFC 01568 - E2	180L-15	20	976	29.3	89.0	0.83	146.8	0.2086	171
200L TFC 18568 - E2	200L-18.5	25	978	35.3	90.2	0.84	180.6	0.302	216
200L TFC 02268 - E2	200LX-22	30	976	41.5	90.1	0.85	215.3	0.342	225
225M TFC 03068 - E2	225M-30	40	984	56.0	91.9	0.84	291.1	0.576	292
250M TFC 03768 - E2	250M-37	50	981	65.8	92.0	0.88	360.2	0.807	408
280S TFC 04568 - E2	280S-45	60	985	80.0	92.7	0.88	436.3	1.474	465
280M TFC 05568 - E2	280M-55	75	983	96.4	92.8	0.89	534.3	1.732	540
315S TFC 07568 - E2	315S-75	100	990	136.0	93.6	0.85	723.4	3.194	861
315M TFC 09068 - E2	315M-90	120	988	165.0	93.9	0.84	869.9	3.723	940
315L TFC 11068 - E2	315L-110	150	988	196.0	94.1	0.86	1063.2	4.526	1110
315L TFC 13268 - E2	315LX-132	180	989	231.0	95.0	0.87	1274.5	5.157	1175
355M TFC 16068 - E2	355M-160	215	992	269.0	95.3	0.90	1540.2	9.27	1690
355M TFC 18068 - E2	355MX-180	240	991	300.0	95.3	0.91	1734.5	9.52	1770
355M TFC 20068 - E2	355MY-200	270	992	336.0	95.9	0.90	1925.3	10.8	1870
355L TFC 22568 - E2	355L-225	300	990	377.0	95.6	0.90	2170.3	11.1	1900
355L TFC 25068 - E2	355LX-250	335	991	420.0	95.5	0.90	2409.0	11.8	1980
355L TFC 28068 - E2	355LY-280	375	992	485.0	95.8	0.87	2695.4	12.9	2150
400M TFC 31568 - E2	400M-315	420	992	538.0	96.1	0.88	3032.3	21.2	3410
400M TFC 35568 - E2	400MX-355	475	995	605.0	96.3	0.88	3407.0	23.5	3650
400L TFC 40068 - E2	400L-400	535	994	683.0	96.1	0.88	3842.8	26.4	3700
400L TFC 45068 - E2	400LX-450	600	995	760.0	96.0	0.89	4318.8	28.8	3820
400L TFC 50068 - E2	400LY-500	670	994	875.0	95.8	0.86	4803.5	31.4	3970

8 Poles

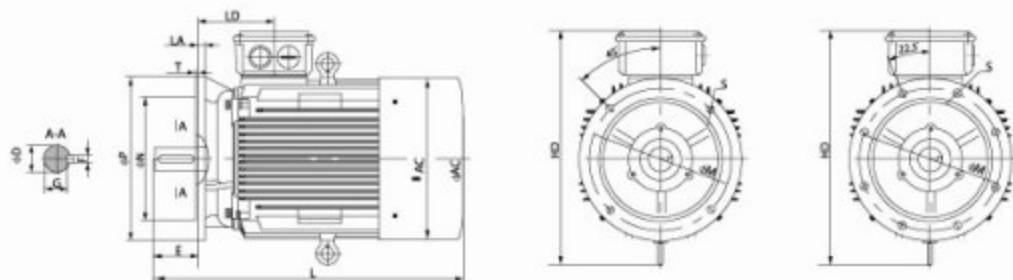
Model	Rated Output		Speed rpm	Current 400V A	Efficiency η%	Power Factor cos φ	Full load Torque N.m.	Moment of inertia Jkgm ²	Weight kg
	Frame & kW	HP							
80K TFC 01888 - E2	80K-0.18	0.24	693	0.84	51.1	0.61	2.48	0.0017	16
80G TFC 02588 - E2	80G-0.25	0.33	689	1.1	54.3	0.60	3.46	0.002	17
90S TFC 03788 - E2	90S-0.37	0.5	691	1.40	62.3	0.61	5.11	0.0034	24
90L TFC 05588 - E2	90L-0.55	0.75	703	1.98	65.5	0.61	7.47	0.0043	25
100L TFC 07588 - E2	100L-0.75	1	695	2.26	71.3	0.67	10.3	0.006	33
100L TFC 01188 - E2	100LX-1.1	1.5	696	3.13	73.2	0.69	15.1	0.0075	34
112M TFC 01588 - E2	112M-1.5	2	700	4.15	75.0	0.70	20.5	0.0133	39
132S TFC 02288 - E2	132S-2.2	3	715	5.6	78.1	0.72	29.4	0.029	62
132M TFC 00388 - E2	132M-3	4	713	7.2	80.7	0.75	40.2	0.0383	66
160M TFC 00488 - E2	160M-4	5.5	718	9.2	82.7	0.76	53.2	0.065	94
160M TFC 05588 - E2	160MX-5.5	7.5	722	12.7	84.4	0.74	72.7	0.088	106
160L TFC 07588 - E2	160L-7.5	10	721	16.3	86.5	0.77	99.3	0.1229	128
180L TFC 01188 - E2	180L-11	15	725	23.7	87.5	0.77	144.9	0.2059	170
200L TFC 01588 - E2	200L-15	20	731	32.1	89.3	0.76	195.9	0.325	220
225S TFC 18588 - E2	225S-18.5	25	733	38.8	90.4	0.76	241.0	0.538	272
225M TFC 02288 - E2	225M-22	30	734	43.8	91.2	0.80	286.2	0.629	294
250M TFC 03088 - E2	250M-30	40	734	59.1	91.2	0.80	390.3	0.809	370
280S TFC 03788 - E2	280S-37	50	736	71.8	91.6	0.81	480.1	1.547	475
280M TFC 04588 - E2	280M-45	60	737	88.6	92.1	0.80	583.1	1.857	555
315S TFC 05588 - E2	315S-55	75	740	106.0	92.9	0.80	709.7	3.682	905
315M TFC 07588 - E2	315M-75	100	740	143.0	93.2	0.81	967.8	4.959	981
315L TFC 09088 - E2	315L-90	120	741	170.0	93.4	0.82	1159.8	5.825	1071
315L TFC 11088 - E2	315LX-110	150	742	206.0	93.7	0.82	1415.7	6.753	1160
355M TFC 13288 - E2	355M-132	180	744	239.0	94.6	0.84	1694.2	12.9	1800
355M TFC 16088 - E2	355MX-160	215	744	283.0	95.3	0.86	2053.6	14.3	1890
355L TFC 18088 - E2	355L-180	240	744	322.0	95.2	0.85	2310.3	15.0	1970
355L TFC 20088 - E2	355LX-200	270	743	375.0	95.2	0.81	2570.5	15.9	2040
400M TFC 25088 - E2	400M-250	335	745	474.0	95.2	0.80	3204.5	27.4	2900
400M TFC 25068 - E2	400MX-280	375	745	512.0	95.2	0.83	3589.0	28.9	3000
400L TFC 28068 - E2	400L-315	420	746	560.0	95.4	0.85	4032.2	30.6	3100
400L TFC 31568 - E2	400LX-355	475	744	637.0	95.7	0.84	4556.4	32.4	3250
400L TFC 35568 - E2	400LY-400	535	743	713.0	95.3	0.85	5140.9	34.2	3400



B3 Foot - Mounting

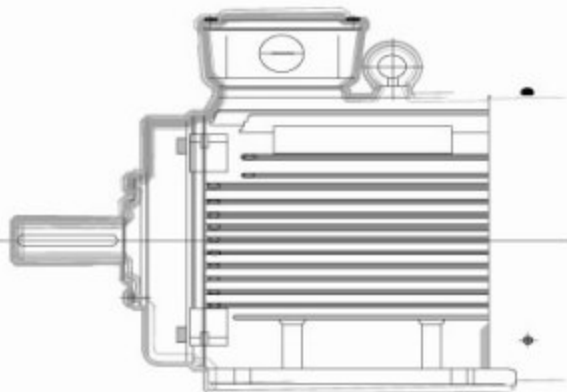
Frame Size	Pole	Mounting Dimensions (mm.)										Outline Dimensions (mm.)									
		A	B	B1	C	D	E	F	G	H	K	AA	AB	AC	AD	HA	HD	BB	LD	L	
63	2,4	100	80	/	40	11	23	4	8.5	63	7	30	135	125	/	10	185	110	65	225	
71	2,4,6	112	90	/	45	14	30	5	11	71	7	32	145	140	/	10	200	120	70	250	
80	2-12	125	100	/	50	19	40	6	15.5	80	10	35	160	160	145	12	225	130	75	280	
90S	2-12	140	100	/	56	24	50	8	20	90	10	36	180	180	155	12	245	140	75	315	
90L	2-12	140	125	/	56	24	50	8	20	90	10	36	180	180	155	12	245	165	75	340	
100L	2-12	160	140	/	63	28	60	8	24	100	12	40	200	200	180	14	280	175	83	375	
112M	2-12	190	140	/	70	28	60	8	24	112	12	45	230	220	190	15	305	180	87	400	
132S	2-12	216	140	/	89	38	80	10	33	132	12	55	265	260	220	18	355	190	102	465	
132M	2-12	216	178	/	89	38	80	10	33	132	12	55	265	260	220	18	355	230	102	505	
160M	2-12	254	210	/	108	42	110	12	37	160	15	65	315	315	265	20	425	260	146	608	
160L	2-12	254	254	/	108	42	110	12	37	160	15	65	315	315	265	20	425	305	146	652	
180M	2,4	279	241	/	121	48	110	14	42.5	180	15	70	350	360	280	22	460	315	161	690	
180L	4-12	279	279	/	121	48	110	14	42.5	180	15	70	350	360	280	22	460	350	161	730	
200L	2-12	318	305	/	133	55	110	16	49	200	19	70	390	400	310	25	510	370	186	760	
225S	4,8	356	286	/	149	60	140	18	53	225	19	75	435	450	335	28	555	370	189	810	
225M	2	356	311	/	149	55	110	16	49	225	19	75	435	450	335	28	555	395	189	805	
	4-12	356	311	/	149	60	140	18	53	225	19	75	435	450	335	28	555	395	189	835	
250M	2	406	349	/	168	60	140	18	53	250	24	80	485	485	375	30	635	445	207	910	
	4-12	406	349	/	168	65	140	18	58	250	24	80	485	485	375	30	635	445	207	910	
280S	2	457	368	/	190	65	140	18	58	280	24	85	545	550	405	35	685	490	215	985	
	4-12	457	368	/	190	75	140	20	67.5	280	24	85	545	550	405	35	685	490	215	1005	
280M	2	457	419	/	190	65	140	18	58	280	24	85	545	550	405	35	685	540	215	1030	
	4-12	457	419	/	190	75	140	20	67.5	280	24	85	545	550	405	35	685	540	215	1060	
315S	2	508	406	/	216	65	140	18	58	315	28	120	630	625	530	45	845	570	257	1180	
	4-12	508	406	/	216	80	170	22	71	315	28	120	630	625	530	45	845	570	257	1210	
315M, L	2	508	457	508	216	65	140	18	58	315	28	120	630	625	530	45	845	680	257	1290	
	4-12	508	457	508	216	80	170	22	71	315	28	120	630	625	530	45	845	680	257	1320	
355M	2	610	500	560	254	80	170	22	71	355	28	120	730	700	615	52	970	750	284	1556	
	4-12	610	500	560	254	100	210	28	90	355	28	120	730	700	615	52	970	750	284	1596	
355L	2	610	560	630	254	80	170	22	71	355	28	120	730	700	615	52	970	750	284	1556	
	4-12	610	560	630	254	100	210	28	90	355	28	120	730	700	615	52	970	750	284	1596	
400M, L	2	686	710	800	280	80	170	22	71	400	35	120	810	860	/	45	1090	1100	362	1850	
	4-12	686	710	800	280	110	210	28	100	400	35	120	810	860	/	45	1090	1100	362	1925	

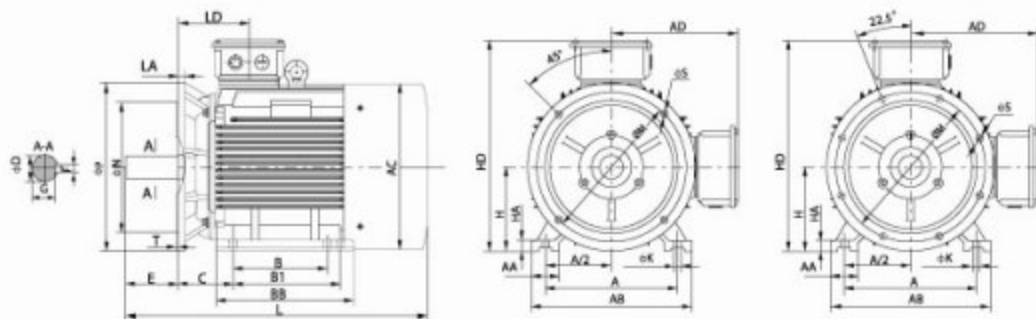
DIMENSIONAL DRAWINGS



B5 Flange - Mounting

Frame Size	Pole	Mounting Dimensions (mm.)										Outline Dimensions (mm.)				
		D	E	F	G	M	N	P	R	S	T	AC	HD	LA	LD	L
80	2-12	19	40	6	15.5	165	130	200	0	4-φ12	4	160	225	12	75	280
90S	2-12	24	50	8	20	165	130	200	0	4-φ12	4	180	245	12	75	315
90L	2-12	24	50	8	20	165	130	200	0	4-φ12	4	180	245	12	75	340
100L	2-12	28	60	8	24	215	180	250	0	4-φ15	4	200	280	13	83	375
112M	2-12	28	60	8	24	215	180	250	0	4-φ15	4	225	305	14	87	400
132S	2-12	38	80	10	33	265	230	300	0	4-φ15	4	260	365	14	102	465
132M	2-12	38	80	10	33	265	230	300	0	4-φ15	4	260	365	14	102	505
160M	2-12	42	110	12	37	300	250	350	0	4-φ19	5	315	445	15	146	608
160L	2-12	42	110	12	37	300	250	350	0	4-φ19	5	315	445	15	146	652
180M	2,4	48	110	14	42.5	300	250	350	0	4-φ19	5	360	480	15	161	690
180L	2-12	48	110	14	42.5	300	250	350	0	4-φ19	5	360	480	15	161	730
200L	2-12	55	110	16	49	350	300	400	0	4-φ19	5	400	530	17	186	760
225S	4,8	60	140	18	53	400	350	450	0	8-φ19	5	450	575	20	189	810
225M	2	55	110	16	49	400	350	450	0	8-φ19	5	450	575	20	189	805
	4-12	60	140	18	53	400	350	450	0	8-φ19	5	450	575	20	189	835
250M	2	60	140	18	53	500	450	550	0	8-φ19	5	490	635	22	207	910
	4-12	65	140	18	58	500	450	550	0	8-φ19	5	490	635	22	207	910
280S	2	65	140	18	58	500	450	550	0	8-φ19	5	550	725	22	215	985
	4-12	75	140	20	67.5	500	450	550	0	8-φ19	5	550	725	22	215	1005
280M	2	65	140	18	58	500	450	550	0	8-φ19	5	550	725	22	215	1030
	4-12	75	140	20	67.5	500	450	550	0	8-φ19	5	550	725	22	215	1060

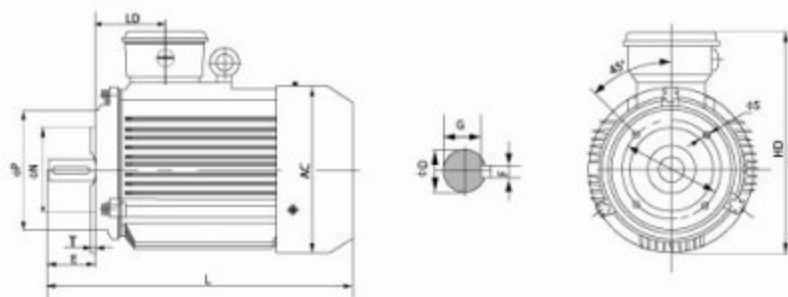




B35 Foot-Flange Mounting

Frame Size	Pole	Mounting Dimensions (mm.)														Outline Dimensions (mm.)											
		A	B	B1	C	D	E	F	G	H	K	M	N	P	R	S	T	AA	AB	AC	AD	BB	HA	HD	LA	LD	L
80	2-12	125	100	/	50	19	40	6	15.5	80	10	165	130	200	0	4-φ12	4	35	160	160	145	130	12	225	12	75	280
90S	2-12	140	100	/	56	24	50	8	20	90	10	165	130	200	0	4-φ12	4	36	180	175	155	140	12	245	12	75	315
90L	2-12	140	125	/	56	24	50	8	20	90	10	165	130	200	0	4-φ12	4	36	180	175	155	165	12	245	12	75	340
100L	2-12	160	140	/	63	28	60	8	24	100	12	215	180	250	0	4-φ15	4	40	200	200	180	175	14	280	13	83	375
112M	2-12	190	140	/	70	28	60	8	24	112	12	215	180	250	0	4-φ15	4	45	230	225	190	180	15	305	14	87	400
132S	2-12	216	140	/	89	38	80	10	33	132	12	265	230	300	0	4-φ15	4	55	265	260	210	190	18	355	14	102	465
132M	2-12	216	178	/	89	38	80	10	33	132	12	265	230	300	0	4-φ15	4	55	265	260	210	230	18	355	14	102	505
160M	2-12	254	210	/	108	42	110	12	37	160	15	300	250	350	0	4-φ19	5	65	315	315	260	260	20	425	15	146	608
160L	2-12	254	254	/	108	42	110	12	37	160	15	300	250	350	0	4-φ19	5	65	315	315	260	305	20	425	15	146	652
180M	2,4	279	241	/	121	48	110	14	42.5	180	15	300	250	350	0	4-φ19	5	70	350	360	280	315	22	460	15	161	690
180L	4-12	279	279	/	121	48	110	14	42.5	180	15	300	250	350	0	4-φ19	5	70	350	360	280	350	22	460	15	161	730
200L	2-12	318	305	/	133	55	110	16	49	200	19	350	300	400	0	4-φ19	5	70	390	400	305	370	25	510	17	186	760
225S	4,8	356	286	/	149	60	140	18	53	225	19	400	350	450	0	8-φ19	5	75	435	450	335	370	28	555	20	189	810
225M	2	356	311	/	149	55	110	16	49	225	19	400	350	450	0	8-φ19	5	75	435	450	335	395	28	555	20	189	805
	4-12	356	311	/	149	60	140	18	53	225	19	400	350	450	0	8-φ19	5	75	435	450	335	395	28	555	20	189	835
250M	2	406	349	/	168	60	140	18	53	250	24	500	450	550	0	8-φ19	5	80	485	490	365	445	30	625	22	207	910
	4-12	406	349	/	168	65	140	18	58	250	24	500	450	550	0	8-φ19	5	80	485	485	365	445	30	625	22	207	910
280S	2	457	368	/	190	65	140	18	58	280	24	500	450	550	0	8-φ19	5	85	545	550	400	490	35	685	22	215	985
	4-12	457	368	/	190	75	140	20	67.5	280	24	500	450	550	0	8-φ19	5	85	545	550	400	490	35	685	22	215	1005
280M	2	457	419	/	190	65	140	18	58	280	24	500	450	550	0	8-φ19	5	85	545	550	400	540	35	685	22	215	1030
	4-12	457	419	/	190	75	140	20	67.5	280	24	500	450	550	0	8-φ19	5	85	545	550	400	540	35	685	22	215	1060
315S	2	508	406	/	216	65	140	18	58	315	28	600	550	660	0	8-φ19	6	120	630	625	555	570	45	845	22	257	1180
	4-12	508	406	/	216	80	170	22	71	315	28	600	550	660	0	8-φ19	6	120	630	625	555	570	45	845	22	257	1210
315M, L	2	508	457	508	216	65	140	18	58	315	28	600	550	660	0	8-φ19	6	120	630	625	555	680	45	845	22	257	1290
	4-12	508	457	508	216	80	170	22	71	315	28	600	550	660	0	8-φ24	6	120	630	625	555	680	45	845	22	257	1320
355M	2	610	500	560	254	80	170	22	71	355	28	740	680	800	0	8-φ24	6	120	730	710	615	750	52	970	25	284	1556
	4-12	610	500	560	254	100	210	28	90	355	28	740	680	800	0	8-φ24	6	120	730	710	615	750	52	970	25	284	1596
355L	2	610	560	630	254	80	170	22	71	355	28	740	680	800	0	8-φ24	6	120	730	710	615	750	52	970	25	284	1556
	4-12	610	560	630	254	100	210	28	90	355	28	740	680	800	0	8-φ24	6	120	730	710	615	750	52	970	25	284	1596
400M, L	2	686	710	800	280	80	170	22	71	400	35	940	880	1000	0	8-φ28	6	120	810	860	/	1090	45	1100	25	362	1850
	4-12	686	710	800	280	110	210	28	100	400	35	940	880	1000	0	8-φ28	6	120	810	860	/	1090	45	1100	25	362	1925

DIMENSIONAL DRAWINGS



B14 A

Frame Size	Pole	Mounting Dimensions (mm.)										Outline Dimensions (mm.)			
		D	I	F	G	M	N	P	R	S	T	AC	HD	LD	L
63	2/4	11	23	4	8.5	75	60	90	0	4M5	2.5	125	185	65	225
71	2, 4/6	14	30	5	11	85	70	105	0	4M6	2.5	140	200	70	250
80	2-12	19	40	6	15.5	100	80	120	0	4M6	3	160	225	75	280
90S	2-12	24	50	8	20	115	95	140	0	4M6	3	175	245	75	315
90L	2-12	24	50	8	20	115	95	140	0	4M6	3	175	245	75	340
100L	2-12	28	60	8	24	130	110	160	0	4M8	3.5	200	280	83	375
112M	2-12	28	60	8	24	130	110	160	0	4M8	3.5	225	305	87	400
132S	2-12	38	80	10	33	165	130	200	0	4M10	4	260	365	102	465
132M	2-12	38	80	10	33	165	130	200	0	4M10	4	260	365	102	505

B14 B

Frame Size	Pole	Mounting Dimensions (mm.)										Outline Dimensions (mm.)			
		D	I	F	G	M	N	P	R	S	T	AC	HD	LD	L
63	2/4	11	23	4	8.5	100	80	120	0	4M6	3	125	185	65	225
71	2, 4/6	14	30	5	11	115	95	140	0	4M8	3	140	200	70	250
80	2-12	19	40	6	15.5	130	110	160	0	4M8	3.5	160	225	75	280
90S	2-12	24	50	8	20	130	110	160	0	4M8	3.5	175	245	75	315
90L	2-12	24	50	8	20	130	110	160	0	4M8	3.5	175	245	75	340
100L	2-12	28	60	8	24	165	130	200	0	4M10	3.5	200	280	83	375
112M	2-12	28	60	8	24	165	130	200	0	4M10	3.5	225	305	87	400
132S	2-12	38	80	10	33	215	180	250	0	4M12	4	260	365	102	465
132M	2-12	38	80	10	33	215	180	250	0	4M12	4	260	365	102	505

Other Marathon Electric Motor Available



Medium & High Voltage



**Mining Spec Motor
185Kw to 1200Kw**



ODP Motor up to 710Kw



NEMA Frame Blue Chips Severe Duty



Up to 2000KW, TEFC



**Explosion Proof
56-449T Frame**



Slip-Ring & Wound Rotor Motor



**Up to 5000Kw, TEFC, CACA, CACW,
Ball bearing or Slewing
(RENK)**