Tormac
PUMPS

INDUCTION MOTOR

LOW VOLTAGE MOTORS | **50 Hz**

Product from an ISO 9001 COMPANY

CONTENTS

A.C. INDUCTION MOTORS - 50Hz

A.C. INDUCTION MOTOR

Tormac offers a comprehensive range of A.C. Induction motors in standard and premium efficiency designs for wide range of applications. These motors are synchronous type with constant speed suitable for continuous duty operations. Stator is made of low watt loss steel laminations to deliver high efficiency. Dynamically balanced rotor and high quality bearings ensure vibration and noise free operations. The varnish impregnated windings are made of high-grade enameled copper wire.

Shaft is made of high quality steel, precision ground of ample size for transmitting the rated horsepower. Construction of motor frames and usage of quality materials result in high performance and low temperature rise, thereby increasing the life cycle of the motor. High-grade cast iron / Die-cast Aluminum components machined with close tolerance and high quality, heavy duty bearings are used to ensure better efficiency and longer life. All three phase motors require adequate control systems with necessary protections.

Motors are available with IE1(EFF-2), IE2(EFF-1), IE-3(Premium Efficiency) versions with B3, B5 & B14 mounting dimensions to cater various applications.

Applications

- Machine Tools
- Blowers and Fans
- Air-Conditioners
- Compressors
- Material Handling Equipments
- Cranes and Hoist
- Textile Machinery
- Cement Plant
- Pharmaceutical Machinery
- Packaging Machinery
- Construction Equipments
- Agriculture
- Food processing Machinery
- Water treatment plants and
- General Engineering

Note: The company reserves the right to modify the technical specification and the illustrations without notice.

GENERAL DATA

Technical Specifications

Class of Motor	IE1	IE2	IE3
Type	Squirrel Cage Induction Motor	Squirrel Cage Induction Motor	Squirrel Cage Induction Motor
Power Range	0.37-315 kW, 3Ph, 380-415V, 50Hz	0.75-315kW, 3Ph, 380-415V, 50Hz	0.75-315kW, 3Ph, 380-415V, 50Hz
Pole	2 Pole/4 Pole (6 Pole on request)	2 Pole/4 Pole (6 Pole on request)	2 Pole/4 Pole (6 Pole on request)
Speed	2900 / 1450 rpm	2900 / 1450 rpm	2900 / 1450 rpm
Insulation Class	"F"	"F"	"F"
Protection	IP 44 / IP 55 / IP 68	IP 55 / IP 68	IP 55 / IP 68
Duty	Continuous (S1)	Continuous (S1)	Continuous (S1)
Ambient Temp.	45°C	45°C	45°C
Enclosure	TEFC	TEFC	TEFC
Mounting	Foot / Face / Flange	Foot / Face / Flange	Foot / Face / Flange
Direction of Rotation	Bi-Directional	Bi-Directional	Bi-Directional

Materials of Construction

Motor Parts	Frame Size	Material
Stator frame	56 - 132	Aluminum alloy
	160 - 355	Cast iron
Endshield	56 - 90	Aluminum alloy
	100 - 355	Cast iron
Flanged endshield	56 - 132	Aluminum alloy
	160 - 355	Cast iron
Fan cover	71 - 355	Mild steel
Fan	71 - 355	Industrial nylon grade
Terminal box (3Ph)	71 - 132	Aluminum alloy
	160 - 355	Mild steel / Cast iron

Construction Material Of Multistage Surface Motor - Optional

Motor Parts	Material	Standard
Frame	Cast iron	EN-GJIL-250/EN-JL040
Terminal Box	Cast iron	EN-GJIL-250/EN-JL040
Shaft	Stainless Steel	420
Bearing	Stainless Steel	316
Rotor	Aluminum	Aluminum die cast

NB : Positive Section head required the Surface Pumps with lower NOSH required advantageous.

IE1 EFFICIENCY MOTORS

2 POLE, IE1 - MOTOR (380-415V THREE PHASE) **rpm : 2900**

Power		Frame Size	FLC Ampere Current (A)	Efficiency (ɳ%)	Power Factor (CosØ)	Starting Current Ratio I_A / I_N	Starting Torque Ratio (T_A / T_N)	Tmax Ratio (T_M / T_N)	Weight (kg)
kW	HP								
0.37	0.5	71	1.0	70	0.81	6.0	2.2	2.2	14
0.55	0.75	71	1.4	73	0.82	6.0	2.2	2.2	15
0.75	1	80	1.8	75	0.83	6.0	2.2	2.2	16
1.1	1.5	80	2.6	77	0.84	7.0	2.2	2.2	17
1.5	2	90S	3.4	79	0.84	7.0	2.2	2.2	22
2.2	3	90L	4.8	81	0.85	7.0	2.2	2.2	25
3	4	100L	6.3	83	0.87	7.0	2.2	2.2	34
4	5.5	112M	8.1	85	0.88	8.0	2.2	2.2	45
5.5	7.5	132S	11	86	0.88	8.0	2.2	2.2	67
7.5	10	132S	15	87	0.88	8.0	2.2	2.2	71
11	15	160M	21.3	88	0.88	8.0	2.0	2.2	107
15	20	160M	28.7	89	0.89	8.0	2.0	2.2	107
18.5	25	160L	34.6	90	0.9	8.0	2.0	2.2	134
22	30	180M	40.9	90.5	0.9	8.0	2.0	2.2	169
30	40	200L	55.4	91.2	0.9	8.0	2.0	2.2	220
37	50	200L	67.7	92	0.9	8.0	2.0	2.2	239
45	60	225M	82.3	92.3	0.9	8.0	1.8	2.2	297
55	75	250M	101	92.5	0.9	7.0	1.8	2.2	377
75	100	280S	134	93	0.9	7.0	1.8	2.2	510
90	125	280M	160	93.8	0.91	7.0	1.8	2.2	577
110	150	315S	195	94	0.91	6.8	1.8	2.2	920
132	180	315M	233	94.5	0.91	6.8	1.8	2.2	970
160	215	315L	279	94.6	0.92	6.8	1.8	2.2	1080
200	270	315L	348	94.8	0.92	6.8	1.8	2.2	1130
250	335	355M	433	94.8	0.92	7.0	1.6	2.2	1850
315	420	355L	544	94.8	0.92	7.0	1.6	2.2	1900

IE1 EFFICIENCY MOTORS

4 POLE, IE1 - MOTOR (380-415V THREE PHASE) **rpm : 1450**

Power		Frame Size	FLC Ampere Current (A)	Efficiency (ɳ%)	Power Factor (CosØ)	Starting Current Ratio I_A / I_N	Starting Torque Ratio (T_A / T_N)	Tmax Ratio (T_M / T_N)	Weight (kg)
kW	HP								
0.37	0.5	71	1.12	67	0.75	5.5	2.2	2.2	16
0.55	0.75	80	1.6	71	0.75	5.5	2.2	2.2	17
0.75	1	80	2.0	73	0.77	6.0	2.2	2.2	18
1.1	1.5	90S	2.9	75	0.77	6.0	2.2	2.2	23
1.5	2	90L	3.7	78	0.79	6.0	2.2	2.2	27
2.2	3	100L	5.1	80	0.81	7.0	2.2	2.2	35
3	4	100L	6.8	82	0.82	7.0	2.2	2.2	38
4	5.5	112M	8.8	84	0.82	7.0	2.2	2.2	49
5.5	7.5	132S	11.8	85	0.83	7.0	2.2	2.2	67
7.5	10	132M	15.5	87	0.84	7.0	2.0	2.0	80
11	15	160M	22.3	88	0.85	7.0	2.0	2.2	124
15	20	160L	30.1	89	0.85	7.0	2.0	2.2	147
18.5	25	180M	36.4	90.5	0.85	7.5	2.2	2.2	169
22	30	180L	43.1	91	0.85	7.5	2.2	2.2	184
30	40	200L	57.4	92	0.86	7.5	2.2	2.2	241
37	50	225S	69.9	92.5	0.87	7.5	2.2	2.2	300
45	60	225M	84.7	92.8	0.87	7.5	2.2	2.2	322
55	75	250M	103	93	0.89	7.0	2.2	2.2	400
75	100	280S	140	93.8	0.86	7.0	2.2	2.2	546
90	125	280M	167	94	0.86	7.0	2.2	2.2	620
110	150	315S	201	94.2	0.87	6.9	2.1	2.2	921
132	180	315M	240	94.5	0.87	6.9	2.1	2.2	1002
160	215	315L	287	94.8	0.88	6.9	2.1	2.2	1070
200	270	315L	359	94.9	0.88	6.9	2.3	2.2	1170
250	335	355M	443	94.9	0.88	6.9	2.3	2.2	1580
315	420	355L	556	94.9	0.89	6.9	2.2	2.2	1700

IE2 EFFICIENCY MOTORS

2 POLE, IE2 MOTOR (380-415V THREE PHASE)

rpm : 2900

Power		Frame Size	FLC Ampere Current (A)			Efficiency (η%)	Power Factor (CosØ)	Starting Current Ratio I_A / I_N	Starting Torque Ratio (T_A / T_N)	Tmax Ratio (T_M / T_N)	Rated Torque Nm	Weight (kg)
kW	HP		380	400	415							
0.75	1	80	1.77	1.69	1.62	77.4	0.83	5.30	2.5	3	2.49	16
1.1	1.5	80	2.53	2.4	2.32	79.6	0.83	7.00	3.2	3.8	3.65	17
1.5	2	90S	3.34	3.17	3.06	81.3	0.84	7.10	2.7	3.5	4.96	22.5
2.2	3	90L	4.73	4.49	4.32	83.2	0.85	6.90	2.4	3	7.27	25
3	4	100L	6.19	5.88	5.67	84.6	0.87	8.00	3.2	4	9.91	34.5
4	5.5	112M	8.05	7.65	7.37	85.8	0.88	7.50	2.5	3	13.11	45
5.5	7.5	132S	10.9	10.4	10.0	87.0	0.88	7.50	2.7	3.5	17.88	72
7.5	10	132S	14.5	13.8	13.3	88.1	0.89	7.50	2.4	3.3	24.36	80
11	15	160M	21.0	20	19.2	89.4	0.89	7.60	2.2	2.9	35.85	108
15	20	160M	28.4	26.9	26.0	90.3	0.89	7.60	2.3	3	48.89	117
18.5	25	160L	34.7	33	31.8	90.9	0.89	7.40	2.3	3.1	60.15	135
22	30	180M	41.1	39.1	37.7	91.3	0.89	7.80	2.8	3.2	71.46	183
30	40	200L	55.7	52.9	51.0	92.0	0.89	7.80	2.6	3	97.12	227
37	50	200L	68.3	64.9	62.5	92.5	0.89	7.70	2.6	3	119.78	247
45	60	225M	82.7	78.6	75.7	92.9	0.89	7.50	2.4	2.6	145.19	297
55	75	250M	100.7	95.7	92.2	93.2	0.89	7.10	2.3	2.8	177.15	390
75	100	280S	136.5	129.7	125	93.8	0.89	7.40	2.5	2.8	241.16	519
90	125	280M	163.3	155.1	149.5	94.1	0.89	7.60	2.8	2.8	289.39	588
110	150	315S	196.9	187.1	180.3	94.3	0.90	6.9	2.4	2.8	353.11	948
132	180	315M	235.6	223.8	215.7	94.6	0.90	7.1	2.6	2.9	423.73	1009
160	215	315L	281.8	267.7	258	94.8	0.91	7.1	2.5	2.9	513.61	1111
200	270	315L	351.5	333.9	321.9	95	0.91	6.9	2.5	2.8	642.02	1140
250	335	355M	439.4	417.4	402.3	95	0.91	7.0	2.5	2.8	801.17	1938
315	420	355L	553.6	525.9	506.9	95	0.91	7.0	2.5	2.9	1009.48	2342

4 POLE, IE2 MOTOR (380-415V THREE PHASE)

rpm : 1450

Power		Frame Size	FLC Ampere Current (A)			Efficiency (η%)	Power Factor (CosØ)	Starting Current Ratio I_A / I_N	Starting Torque Ratio (T_A / T_N)	Tmax Ratio (T_M / T_N)	Rated Torque Nm	Weight (kg)
kW	HP		380	400	415							
0.75	1	80	1.91	1.81	1.75	79.6	0.75	5	2.4	2.9	5.12	18
1.1	1.5	90S	2.74	2.6	2.51	81.4	0.75	6	3	3.5	7.3	22
1.5	2	90L	3.67	3.49	3.36	82.8	0.75	6.8	3.2	3.8	9.91	27
2.2	3	100L	4.9	4.65	4.48	84.3	0.81	7	3	3.5	14.6	35
3	4	100L	6.5	6.18	5.95	85.5	0.82	7	2.6	3.3	19.9	41.5
4	5.5	112M	8.56	8.13	7.84	86.6	0.82	7.5	3.5	4	26.4	49
5.5	7.5	132S	11.6	11	10.6	87.7	0.82	6.4	2.2	2.8	36.1	77
7.5	10	132M	15.5	14.7	14.2	88.7	0.83	7	2.4	3	49.2	87
11	15	160M	21.9	20.8	20	89.8	0.85	6.9	2.5	2.9	71.9	110
15	20	160L	29.2	27.8	26.8	90.6	0.86	7.5	2.5	3	98.1	132
18.5	25	180M	35.8	34	32.8	91.2	0.86	7.8	2.6	3.1	120.2	172
22	30	180L	42.4	40.3	38.9	91.6	0.86	7.5	2.6	3.1	142.9	180
30	40	200L	57.4	54.6	52.6	92.3	0.86	7.1	2.4	2.9	194.9	247
37	50	225S	70.5	67	64.6	92.7	0.86	7.5	2.5	2.7	238.8	297
45	60	225M	85.4	81.1	78.2	93.1	0.86	7.6	2.5	2.8	290.4	322
55	75	250M	103.9	98.7	95.2	93.5	0.86	7.3	2.6	2.7	354.9	413
75	100	280S	137.8	130.9	126.1	94.0	0.88	7.6	2.7	2.7	484	558
90	125	280M	155	156.7	151	94.2	0.88	7.5	2.7	2.7	580.7	632
110	150	315S	201	190.9	184	94.5	0.88	7.1	2.7	2.9	707.4	950
132	180	315M	240.7	228.6	120.4	94.7	0.88	7.3	2.7	2.9	889	1035
160	215	315L	287.8	273.4	163.5	94.9	0.89	7.4	3	3.0	1029	1105
200	270	315L	359	341.1	328.7	95.1	0.89	7.6	3	3.0	1286	1225
250	335	355M	443.8	421.6	406.4	95.1	0.90	7.5	2.8	2.9	1602	1740
315	420	355L	559	531.2	512	95.1	0.90	7.4	2.6	2.8	2019	1900

IE3 PREMIUM EFFICIENCY MOTORS

2 POLE, IE3 MOTOR (380-415V THREE PHASE) **rpm : 2900**

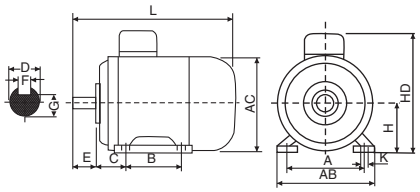
Power		Frame Size	FLC Ampere Current (A)			Efficiency (ɳ%)	Power Factor (CosØ)	Starting Current Ratio I_A / I_N	Starting Torque Ratio (T_A / T_N)	Tmax Ratio (T_M / T_N)	Rated Torque Nm	Weight (kg)
kW	HP		380	400	415							
0.75	1	80	1.7	1.61	1.56	80.7	0.83	5.5	1.8	3.5	2.49	20
1.1	1.5	80	2.43	2.31	2.22	82.7	0.83	7.5	2.6	3.5	3.65	21
1.5	2	90S	3.25	3.09	2.98	84.2	0.83	7.1	2.6	3.5	4.95	26
2.2	3	90L	4.57	4.34	4.19	85.9	0.85	7	2	3	7.26	29
3	4	100L	5.94	5.64	5.44	87.1	0.88	8.6	2	3.2	9.9	43
4	5.5	112M	7.83	7.44	7.17	88.1	0.88	8	1.8	2.9	13.1	51
5.5	7.5	132S	10.6	10.1	9.75	89.2	0.88	7.5	2.1	2.5	17.9	76
7.5	10	132S	14.4	13.7	13.2	90.1	0.88	7.3	2	3.5	24.4	84
11	15	160M	20.4	19.3	18.6	91.2	0.90	7.3	2.3	2.6	35.7	128
15	20	160M	27.2	25.9	24.9	91.9	0.91	7	1.9	2.3	48.6	140
18.5	25	160L	34.1	32.4	31.3	92.4	0.89	7	1.6	2.5	60.1	155
22	30	180M	40.1	38.1	36.7	92.7	0.90	7	1.6	2.5	71.1	192
30	40	200L	54.8	52.1	50.2	93.3	0.89	7	1.5	2.5	96.8	246
37	50	200L	65.9	62.6	60.3	93.7	0.91	7.3	1.5	2.5	119	267
45	60	225M	82.5	78.4	75.5	94.0	0.88	6.8	1.6	2.5	145	353
55	75	250M	99.6	94.6	91.2	94.3	0.89	7.2	1.6	2.6	176.9	408
75	100	280S	134	127	122	94.7	0.91	7.2	1.2	2	240.8	548
90	125	280M	162	153	148	95.0	0.89	7.4	1.2	2	288.9	596
110	150	315S	195	185	179	95.2	0.90	7.3	1.2	2	352.8	956
132	175	315M	233	222	214	95.4	0.90	7.3	1.3	2.1	432.3	1017
160	215	315L	283	268	259	95.6	0.90	6.8	1.2	2	512.8	1119
200	270	315L	349	331	319	95.8	0.91	7.8	1.1	2	640.9	1150
250	335	355M	431	409	394	95.8	0.92	7.9	1.1	2	800.6	1948
315	425	355L	543	519	497	95.8	0.92	7.9	1.1	2	1009	2356

4 POLE, IE3 MOTOR (380-415V THREE PHASE) **rpm : 1450**

Power		Frame Size	FLC Ampere Current (A)			Efficiency (ɳ%)	Power Factor (CosØ)	Starting Current Ratio I_A / I_N	Starting Torque Ratio (T_A / T_N)	Tmax Ratio (T_M / T_N)	Rated Torque Nm	Weight (kg)
kW	HP		380	400	415							
0.75	1	80	1.86	1.77	1.7	82.5	0.74	6	2.9	3.6	5.04	22
1.1	1.5	90S	2.68	2.55	2.46	84.1	0.74	6.5	2.7	3.8	7.27	27
1.5	2	90L	3.61	3.43	3.3	85.3	0.74	6.8	3	3.6	9.91	32
2.2	3	100L	4.93	4.68	4.52	86.7	0.78	7.2	2.5	3.5	14.6	44
3	4	100L	6.66	6.32	6.09	87.7	0.78	7.2	2.6	3.5	20	49
4	5.5	112M	8.56	8.14	7.84	88.6	0.80	7	2.3	3.2	26.5	56
5.5	7.5	132S	11.6	11.1	10.7	89.6	0.80	7.1	2.7	3.5	36	81
7.5	10	132M	15.3	14.6	14	90.4	0.82	7.2	2.7	3.8	49.1	91
11	15	160M	22.3	21.2	20.4	91.4	0.82	6.8	1.9	2.3	71.7	141
15	20	160L	30.1	28.6	27.6	92.1	0.82	6.8	1.8	2.4	97.8	151
18.5	25	180M	36.1	34.3	33.1	92.6	0.84	6.9	1.8	2.5	120.2	190
22	30	180L	42.3	40.2	38.7	93.0	0.85	7	1.8	2.5	142.9	205
30	40	200L	56.5	53.7	51.7	93.6	0.86	6.8	1.8	2.3	194.2	275
37	50	225S	69.5	66.1	63.7	93.9	0.86	7.1	1.7	2.3	237.9	315
45	60	225M	83.2	79.1	76.2	94.2	0.87	7.1	1.8	2.4	289.4	345
55	75	250M	101	96.2	92.7	94.6	0.87	7	1.8	2.4	353.7	421
75	100	280S	138	131	126	95.0	0.87	6.9	1.8	2.2	482	538
90	125	280M	165	157	151	95.2	0.87	7.2	1.6	2.1	578.4	638
110	150	315S	199	189	182	95.4	0.88	7.2	1.6	2.1	706	958
132	175	315M	238	226	218	95.6	0.88	7.2	1.5	2.0	847	1045
160	215	315L	288	274	264	95.8	0.88	6.8	1.5	2.0	1027	1115
200	270	315L	360	342	329	96	0.88	7.2	1.6	2.1	1282	1233
250	335	355M	449	427	411	96	0.88	7.3	1.4	2.1	1603	1744
315	425	355L	567	538	519	96	0.88	7.4	1.4	2.0	2019	1950

DIMENSIONAL DETAILS

IMB3



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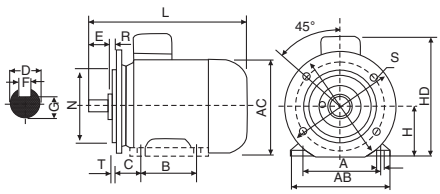

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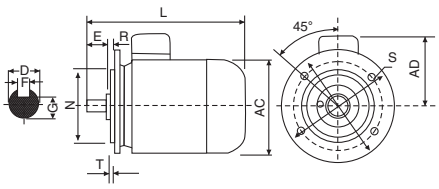
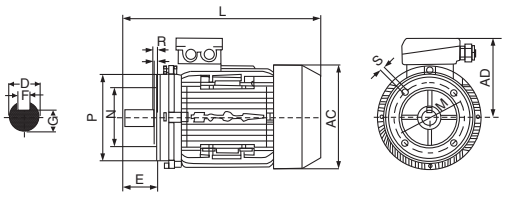
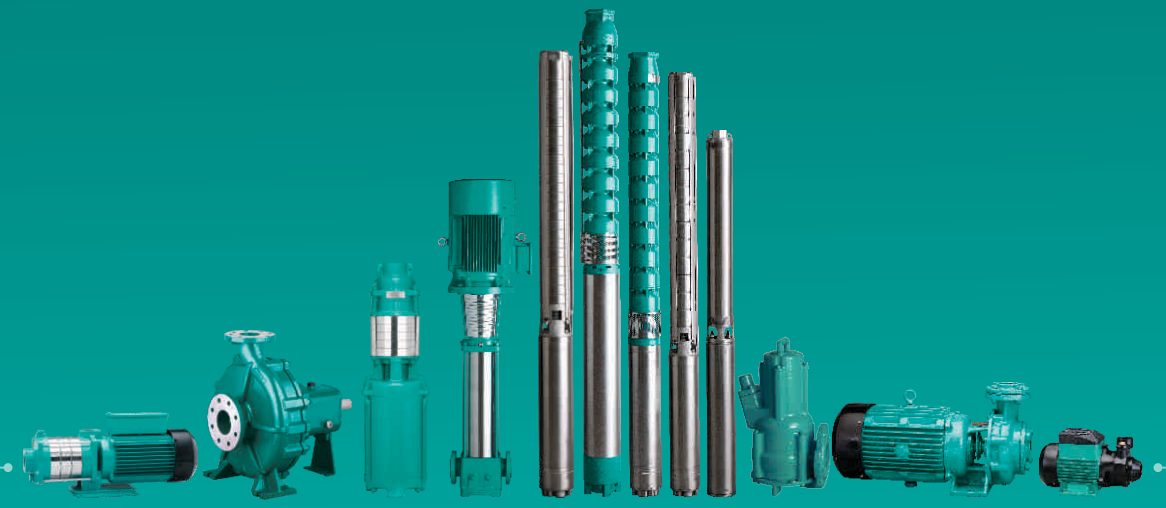


Frame Size	Mounting Dimensions (mm)																		Frame Dimensions (mm)					
	A	B	C	D		E		F		G		H	K	M	N	P	R	S	T	AB	AC	AD	HD	L	
				2 Pole	4 Pole	2 Pole	4 Pole	2 Pole	4 Pole	2 Pole	4 Pole													2 Pole	4 Pole
71	112	90	45	14	14	30	30	5	5	11	11	71	7	130	110	160	0	10	3	150	145	80	195	255	255
80	125	100	50	19	19	40	40	6	6	15.5	15.5	80	10	165	130	200	0	12	3.5	165	175	145	220	295	295
90S	140	100	56	24	24	50	50	8	8	20	20	90	10	165	130	200	0	12	3.5	180	195	155	250	320	320
90L	140	125	56	24	24	50	50	8	8	20	20	90	10	165	130	200	0	12	3.5	180	195	155	250	345	345
100L	160	140	63	28	28	60	60	8	8	24	24	100	12	215	180	250	0	15	4	205	215	180	270	385	385
112M	190	140	70	28	28	60	60	8	8	24	24	112	12	215	180	250	0	15	4	230	240	190	300	400	400
132S	216	140	89	38	38	80	80	10	10	33	33	132	12	265	230	300	0	15	4	270	275	210	345	470	470
132M	216	178	89	38	38	80	80	10	10	33	33	132	12	265	230	300	0	15	4	270	275	210	345	510	510
160M	254	210	108	42	42	110	110	12	12	37	37	160	15	300	250	350	0	19	5	315	330	255	400	605	605
160L	254	254	108	42	42	110	110	12	12	37	37	160	15	300	250	350	0	19	5	315	330	255	400	660	660
180M	279	241	121	48	48	110	110	14	14	42.5	42.5	180	15	300	250	350	0	19	5	355	380	280	440	690	690
180L	279	279	121	48	48	110	110	14	14	42.5	42.5	180	15	300	250	350	0	19	5	355	380	280	440	725	725
200L	318	305	133	55	55	110	110	16	16	49	49	200	19	350	300	400	0	19	5	410	420	305	500	765	765
225S	356	286	149	-	60	-	140	-	18	-	53	225	19	400	350	450	0	19	5	445	470	335	555	-	810
225M	356	311	149	55	60	110	140	16	18	49	53	225	19	400	350	450	0	19	5	445	470	335	550	805	835
250M	406	349	168	60	65	140	140	18	18	53	58	250	24	500	450	550	0	19	5	485	510	370	615	910	910
280S	457	368	190	65	75	140	140	18	20	58	67.5	280	24	500	450	550	0	19	5	550	580	410	660	980	980
280M	457	419	190	65	75	140	140	18	20	58	67.5	280	24	500	450	550	0	19	5	550	580	410	660	1030	1030
315S	508	406	216	65	80	140	170	18	22	58	71	315	28	600	550	660	0	24	6	630	645	630	825	1180	1275
315M	508	457	216	65	80	140	170	18	22	58	71	315	28	600	550	660	0	24	6	630	645	630	830	1290	1320
315L	508	508	216	65	80	140	170	18	22	58	71	315	28	600	550	660	0	24	6	630	645	630	830	1290	1320
355M	610	560	254	75	95	140	170	20	25	67.5	86	355	28	740	680	800	0	24	6	705	710	655	1010	1510	1540
355L	610	630	254	75	95	140	170	20	25	67.5	86	355	28	740	680	800	0	24	6	705	710	655	1010	1510	1540

IMB14



Frame Size	Mounting Dimensions (mm)									Frame Dimensions (mm)		
	E	F	D	G	M	N	P	R	S	AC	AD	L
71	30	5	14	11	85	70	105	0	M6	150	110	246
80	40	6	19	15.5	100	80	120	0	M6	170	135	285
90S	50	8	24	20	115	95	140	0	M8	185	137	335
90L	50	8	24	20	115	95	140	0	M8	185	137	335
100L	60	8	28	24	130	110	160	0	M8	206	150	376
112M	80	8	28	24	130	110	160	0	M8	228	170	400
132S	80	10	38	33	165	130	200	0	M10	267	190	460
132M	110	10	38	33	165	130	200	0	M10	267	190	500
160M	110	12	42	37	215	180	250	0	M12	330	255	615
160L	110	12	42	37	215	180	250	0	M12	330	255	675
180M	110	14	48	42.5	265	230	300	0	M15	380	280	700
180L	110	14	48	42.5	265	230	300	0	M15	380	280	740



THE POWER BEHIND THE FORCE

Naargo Industries Private Limited, one of the leading manufacturers of latest state of art, large range of pumps and motors, is managed by veterans who are in the pump industry for almost half a century. The products are employed in various applications like irrigation, domestic, civil construction, de-watering etc; The Company has a strong distribution network in India for sales & service and a strong global presence.

Quality is the key factor in Naargo's products. The expansive infrastructure and environment accredited with ISO 9001 quality certification, latest engineering softwares, high-tech machinery, futuristic pumping technology and high caliber workforce facilitate the production of flawless and efficient products on par with international standards under the brand name of "Tormac". The well equipped R & D wing stays alive to the changing global trends and comes out with viable solutions for innovative product development and upgradation.

The Products currently available include Stainless Steel Submersible Pumps, 4" Thermoplastic Submersible Pumps, 6" & 8" Cast Iron Submersible Pumps, Submersible Motors and Controls, Centrifugal Pumps, Inline Booster Pumps, Jet Self-priming Pumps and Peripheral Pumps.

The power, performance and endurance of the products backed by the uncompromising teamwork and value systems will certainly propel the company's growth towards new horizons in the pump industry.

IB-CM-DJ19-E5

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Tormac PUMPS