

Electric Motor Three Phase

4 Pole Motor - 3 Phase TEFC Squirrel Cage Rotor Induction Motor



Voltage : 415 + 10% V

Type : Squirrel Cage

Ambient : 40°C

Frequency : 50 + 5% Hz

Rating : Continuous

Degree of Protection : IP 55

Insulation : Class 'F' with Class 'B'

REF

: IS 325

Temperature Rise

Type / Frame	Kw	HP	Rated Current at 415V	Speed rpm	Cos ϕ	Eff. %	Ist	Ist	T Pot	GD ²	Net Weight Kg.
							IR	TR	TR	kgm ²	
71	0.37	0.5	1.05	1380	0.72	72	4	2.1	2.3	0.0034	11.45
80	0.75	1	2	1380	0.79	74	3.8	2.4	2.6	0.0077	17.3
90S	1.1	1.5	2.55	1390	0.8	76	3.5	2.5	2.7	0.013	19.75
90L	1.5	2	3.45	1410	0.79	77	3.95	2.3	2.5	0.018	23
100L	2.2	3	4.6	1435	0.8	81	5	2.3	2.5	0.032	33
112M	3.7	5	7.35	1440	0.81	85	6.1	3.1	3.3	0.045	48
132S	5.5	7.5	10.8	1440	0.85	87	5.1	2	2.2	0.12	67
132M	7.5	10	13.9	1450	0.85	88	5.55	2	2.2	0.17	76
160M	9.3	12.5	17.5	1460	0.83	89	7.35	3	3.2	0.32	124.5
160M	11	15	21.3	1460	0.83	89	5.5	3.3	3.5	0.35	126
160L	13	17.5	25	1460	0.81	90	4	2	2.2	0.43	148.1
160L	15	20	29.1	1460	0.82	90	7	2.5	2.7	0.47	153
180M	18.5	25	34.5	1470	0.82	91	5.8	3	3.2	0.82	200
180L	22	30	41	1470	0.84	92	5	2.1	2.3	0.9	220

6 Pole Motor - Three Phase TEFC Squirrel Cage Rotor Induction Motor

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Type : Squirrel Cage

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Frequency : 50 + 5% Hz

Rating : Continuous

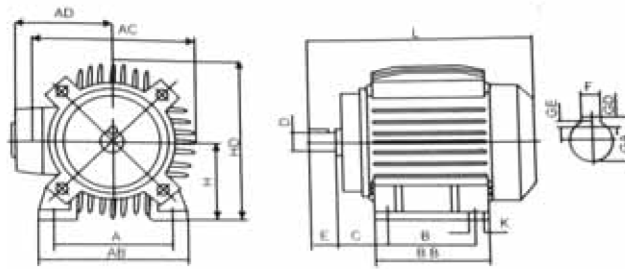
Degree of Protection : IP 55

Insulation : Class 'F' with Class 'B'

Temperature Rise

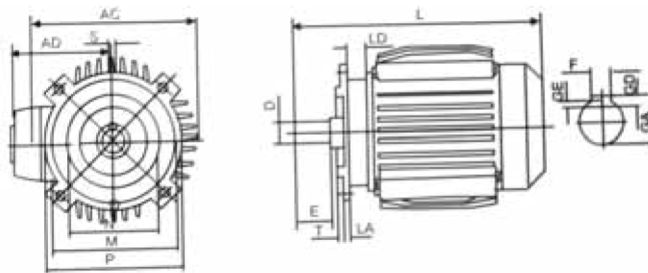
Type / Frame	Kw	HP	Rated Current at 415V	Speed rpm	Cos ϕ	Eff. %	Ist	Ist	T Pot	GD ²	Net Weight Kg.
							IR	TR	TR	kgm ²	
80	0.37	0.5	1.15	940	0.63	68	3.45	2.1	2.3	0.011	17.5
80	0.55	0.75	1.65	940	0.68	73	3.5	2.9	3.1	0.013	18
90S	0.75	1	2.15	940	0.73	73	3.5	2.3	2.5	0.016	20
90L	1.1	1.5	2.95	950	0.74	74	3.5	2.3	2.5	0.023	24
100L	1.5	2	3.95	950	0.74	78	3.5	2.3	2.5	0.037	34
112M	2.2	3	5	950	0.77	82	4.1	2	2.2	0.071	48
132S	3.7	5	8.2	950	0.79	84	3.9	2	2.2	0.15	67
132M	5.5	7.5	12.5	960	0.78	85	4.5	2	2.2	0.21	80
160M	7.5	10	15.5	960	0.8	88	4.5	2.7	2.9	0.56	126.5
160L	9.3	12.5	20	960	0.8	88	4.5	2.3	2.5	0.58	150
160L	11	15	23.5	960	0.8	88	4.5	2.3	2.5	0.65	160
180L	15	20	30.5	970	0.85	89.5	4.75	2.6	2.8	1.1	216

Out Line Dimension Drawing For 3 Phase Squirrel Cage TEFC Foot Mounted Cast Iron Body B3 Induction Motor For 71 to 180L Frames



HP	H	A	B	C	K	D	E	F	GD	GE	GA	AC	HD	AD	AB	BB	L
71	71	112	90	45	7	14	30	5	5	3	16	138	188	96	135	113	255
80	80	125	100	50	10	19	40	6	6	3.5	21.5	165	200	110	165	140	289
90S	90	140	100	56	10	24	50	8	7	4	27	178	226	128	170	130	290
90L	90	140	125	56	10	24	50	8	7	4	27	178	226	128	170	153	325
100L	100	160	140	63	12	28	60	8	7	4	31	210	253	152	200	180	388
112M	112	190	140	70	12	28	60	8	7	4	31	232	268	158	230	180	415
132S	132	216	140	89	12	38	80	10	8	5	41	265	312	166	260	183	425
132M	132	216	203	89	12	38	80	10	8	5	41	265	312	166	260	230	485
160M	160	254	210	108	15	42	110	12	8	5	45	313	384	233	212	258	588
160L	160	254	254	108	15	42	110	12	8	5	45	315	377	235	315	315	638
180M	180	279	241	241	15	48	110	14	9	5.5	51.5	380	418	282	392	340	708

Out Line Dimension Drawing For 3 Phase Squirrel Cage TEFC Flang Mounted Cast Iron Body B3 Induction Motor For 71 to 180L Frames



FRAME	M	N	P	S	T	LA	LD	D	E	F	GD	GE	GA	AC	AD
71	130	110	160	10	3.5	9	16	14	30	5	5	3	16	138	96
80	165	130	200	12	3.5	10	20	19	40	6	6	3.5	21.5	165	110
90S	165	130	200	12	3.5	10	20	24	50	8	7	4	27	178	128
90L	165	130	200	12	3.5	10	20	24	50	8	7	4	27	178	128
100L	215	180	250	15	4	11	24	28	60	8	7	4	31	210	152
112M	215	180	250	15	4	11	24	28	60	8	7	4	31	232	158
132S	265	230	300	15	4	12	24	38	80	10	8	5	41	265	166
132M	265	230	300	15	4	12	24	38	80	10	8	5	41	265	166
160M	300	250	350	19	5	13	32	42	110	12	8	5	45	313	233
160L	300	250	350	19	5	13	32	42	110	12	8	5	45	315	235
180M	300	250	350	19	5	13	32	48	110	14	9	5.5	51.5	380	282

All Dimension are in mm