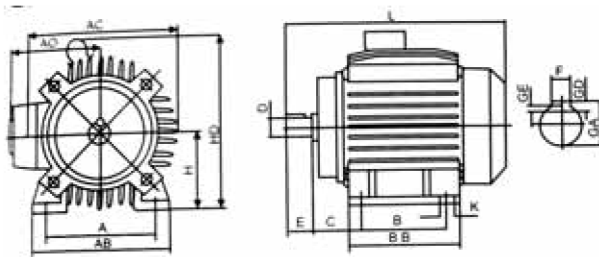


ELECTRIC MOTOR

Single Phase



OUT LINE DIMENSION DRAWING FOR SINGLE PHASE SQUIRREL CAGE TEFC FOOT MOUNTED INDUCTION MOTOR



Basic Design Features

- Synchronous A.C. Voltage 240 & 415
- Frequency 50 Hz (non standard voltage and frequency on request)
- Three phase and single phase winding
- Squirrel cage rotor
- Insulation class 'B7 class 'F'
- Performance as per IS 325, IS 2165 for 3 phase and IS 996 for single phase motors

Salient Features

- Casting for body frame, end shields, bearing shields etc., are made out of quality graded grey iron casting which assures long years of utility
- Shaft - EN 8 steel / Rotors - pressure die cast and dynamically balanced / Stator core pack - built from low loss electrical grade steel laminations / Stator winding consists of modified polyester/polyesterimide base insulated copper wire to give high conductivity and impregnated with synthetic resin to attain high die electric properties / Windings are tested on surge comparison tester
- Die cast aluminium body for frames 56 to 100
- All motors are painted with rust proof paint
- Prompt after sales service

Outline Dimension For Single Phase Squirrel Cage TEFC Foot Mounted Motors

HP	Kw	SPEED	TYPE	H	A	B	C	K	D	E	F	GD	GE	GA	AC	HD	AD	AB	BB	L
0.5	0.37	1420	CSCR	90	140	100	56	10	19.05	48	4.76	4.76	2.75	21.5	178	218	114	130	170	310
1	0.75	1420	CSCR	90	140	125	56	10	19.05	48	4.76	4.76	2.75	21.5	178	218	115	170	153	327
1	0.75	1420	CSCR	102	161	111	63	10	22	50	4.76	4.76	2.75	24.01	195	225	146	190	140	333
1.5	1.1	1420	CSCR	102	161	111	63	10	22	50	4.76	4.76	2.75	24.01	195	225	146	190	140	333
1.5	1.1	1420	CSCR	112	190	140	70	12	22	60	4.76	4.76	2.75	24.01	240	275	150	238	177	386
2	1.5	1420	CSIR	100	160	140	63	10	22	60	4.76	4.76	2.75	24.01	210	253	152	200	180	388
2	1.5	1420	CSCR	112	190	140	70	12	22	60	4.76	4.76	2.75	24.01	240	275	150	238	177	386
3	2.2	1420	CSCR	112	190	140	70	12	28	60	8	7	4	31	240	275	150	238	177	386
3	2.2	1420	CSCR	132	216	140	89	12	28	60	8	7	4	31	270	325	194	278	180	430

PERFORMANCE DATA / 4 POLE Single Phase TEFC Squirrel Cage Rotor Induction Motor

Voltage : 240V + 6%

Type : Squirrel Cage

Ambient : 40C

Frequency : 50 + 3% Hz

Rating : Continuous

Degree of Protection : IP 44 / 55

Frame	Kw	HP	ENCL	Type	Speed RPM	Eff. %	Power Factor	Rated Current AMPS	Starting Current % FLC	Starting Torque % FLT	Pullout Torque % FLT	Pullup Torque % FLT	Moment of inertia	Weight
90S	0.37	0.5	TEFC	CSIR	1420	56.3	0.83	3.35	5	3	4	2.9	0.0128	16.5KG
100	0.75	1	TEFC	CSCR	1440	72	0.83	6	6.5	2.6	3.7	2.5	0.0383	28KG
90L	0.75	1	TEFC	CSCR	1420	60	0.74	6.5	5.5	3.6	4.8	2.4	0.019	23KG
112M	1.1	1.5	TEFC	CSIR	1420	73	0.61	11	4.5	2.2	2.9	2	0.0492	38.5KG
100S	1.1	1.5	TEFC	CSCR	1420	64.5	0.73	10	4.5	2.2	3.3	1.9	0.046	34KG
100S	1.5	2	TEFC	CSCR	1420	79	0.88	10	5	2.5	3.1	2.4	0.059	38.5KG
112M	1.5	2	TEFC	CSIR	1420	76.5	0.64	14.5	5	3.36	3.51	2.22	0.059	43KG
132S	2.2	3	TEFC	CSCR	1420	71	0.72	18	3.7	2.2	2	2.5	0.134	68KG