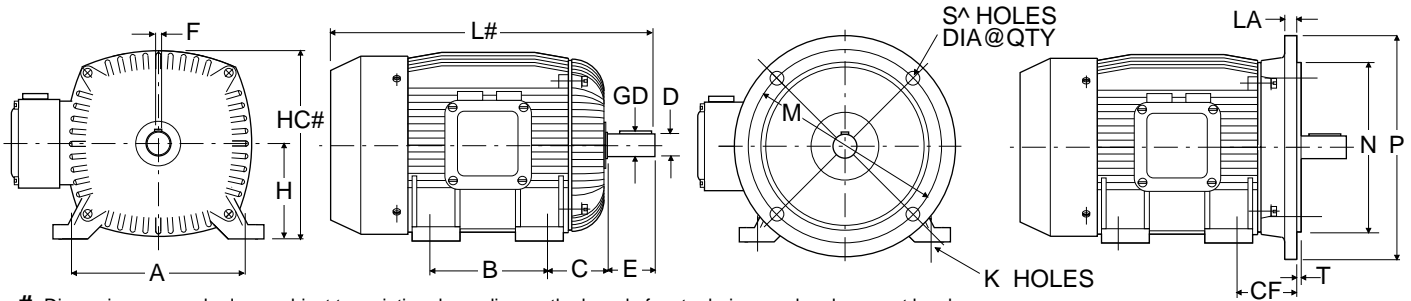


ELECTRIC MOTORS 415V AC SQUIRREL CAGE DESIGN TEFC TO IEC STANDARDS



Dimensions so marked are subject to variation depending on the brand of motor being used and may not be shown.
S^A Frames 63 through 200L have 4 holes on 45 deg. The remainder 8 holes on 22 deg 30 min. Relationship of power output verses frame may vary with manufacturer.

FRAME	DIMENSIONS (mm)																POWER RANGE kW @ MOTOR RPM				
	A	B	C	CF	D	E	F	GD	H	HC#	K	LA	M	N	P	S^A	T	3000	1500	1000	750
63	100	80	40	40	11	23	4	12.5	63	124	7	6	115	95	140	10	3	0.12-0.25	0.12-0.18		
71	112	90	45	45	14	30	5	16	71	140	7	9	130	110	160	10	3.5	0.37-0.55	0.25-0.37	0.18	0.12
80	125	100	50	50	19	40	6	21.5	80	158	10	10	165	130	200	12	3.5	0.75-1.10	0.55-0.75	0.37-0.55	0.18
90S	140	100	56	56	24	50	8	27	90	178	10	10	165	130	200	12	3.5	1.50	1.10	0.75	0.37
90L	140	125	56	56	24	50	8	27	90	178	10	10	165	130	200	12	3.5	2.20	1.50	1.10	0.55
100L	160	140	63	63	28	60	8	31	100	198	12	11	215	180	250	15	4	3.0	2.2-3.0	1.5	0.75-1.1
112M	190	140	70	70	28	60	8	31	112	222	12	11	215	180	250	15	4	4.0	4.0	2.2	1.5
132S	216	140	89	89	38	80	10	41	132	260	12	12	265	230	300	15	4	5.5-7.5	5.5	3.0	2.2
132M	216	178	89	89	38	80	10	41	132	260	12	12	265	230	300	15	4	9.2	7.5	4.0-5.0	3.0
160M	254	210	108	108	42	110	12	45	160	314	15	18	300	250	350	19	5	11.0-16.0	9.2-11.0	7.5	4.0-5.5
160L	254	254	108	108	42	110	12	45	160	314	15	18	300	250	350	19	5	18.5	15.0	9.2-11.0	7.5
180M	279	241	121	121	48	110	14	51.5	180	354	15	18	300	250	350	19	5	22.0	18.5		9.2
180L	318	279	121	121	48	110	14	51.5	180	354	15	18	300	250	350	19	5	22.0	22.0	15.0	11.0
200M	318	267	133	133	55	110	16	59	200	392	19	18	350	300	400	19	5		22.0	15.0	11.0
200L	356	305	133	133	55	110	16	59	200	392	19	18	350	300	400	19	5	30.0-37.0	30.0	18.5-22.0	15.0
225S	356	286	149	149	55/60	110	16/18	#	225	455	19	18	400	350	450	19	5	45	37.0-45.0	30	18.5-22.0
225M	356	311	149	149	55/60	110	16/18	#	225	455	19	18	400	350	450	19	5	45	37.0-45.0	30	18.5-22.0
250S	406	311	168	168	60/70	140	18/20	#	250	480	24	18	500	450	550	19	5	55.0-75.0	55.0-75.0	37.0-45.0	30.0-37.0
250M	406	349	168	168	60/70	140	18/20	#	250	480	24	18	500	450	550	19	5	55.0-75.0	55.0-75.0	37.0-45.0	30.0-37.0

NO RESPONSIBILITY IS ACCEPTED FOR OMISSIONS VARIATIONS OR ERRORS

CONVERSIONS AND USEFUL FORMULA

CONVERSIONS TORQUE

Nm x 0.7376 = lbf ft
 lbf ft x 1.356 = Nm
 lb in x 0.1130 = Nm
 kgm x 9.807 = Nm
 kgm x 7.232 = lbf ft

POWER

kW x 1.341 = HP
 HP x 0.7457 = kW
 Met HP x 0.7355 = kW
 Ton of Rfg x 3.517 = kW

PRESSURE

PSI x 0.0689 = Bar
 Bar x 14.5 = PSI
 inH₂O x 0.249 = kPa

VOLUME

Gal (UK) x 4.546 = Litres
 Gal (US) x 3.785 = Litres
 Cu Ft x 28.32 = Litres

LENGTH

Inch x 25.4 = mm
 Feet x 0.3048 = metre

AREA

Sq Inch x 6.452 = Sq cm
 Sq Ft x 0.0929 = Sq mtr

VELOCITY

Ft/s x 0.3048 = m/s
 mph x 1.609344 = km/h
 Knot UK x 1.853 = km/h

MASS

Oz x 28.3495 = gram
 lb x 0.4536 = kg
 Ton UK x 1.016 = Tonne

POWER TORQUE AND SPEED RELATIONSHIPS US UNITS

$$T = \frac{HP \times 5252}{RPM} \quad HP = \frac{T \times RPM}{5252} \quad RPM = \frac{HP \times 5252}{T}$$

Where T = Torque Ft Lbs
 HP = Horsepower
 RPM = Revs Per Minute

POWER TORQUE AND SPEED RELATIONSHIPS ISO UNITS

$$T = \frac{kW \times 9549}{RPM} \quad kW = \frac{T \times RPM}{9549} \quad RPM = \frac{kW \times 9549}{T}$$

Where T = Torque Newton Metres
 kW = Kilowatts
 RPM = Revs Per Minute

HYDRAULIC (FLUID POWER) POWER US UNITS

$$HP = \frac{PSI \times US\ GPM}{1714} \quad PSI = \text{Lbs per Sq Inch Pressure}$$

US GPM = Gallons Per Minute US
 Above is theoretical power. Add inefficiency.

HYDRAULIC (FLUID POWER) POWER ISO UNITS

$$kW = \frac{Bar \times L/min}{600} \quad Bar = \text{Pressure Bar}$$

L/min = Litres Per Minute
 Above is theoretical power. Add inefficiency.

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