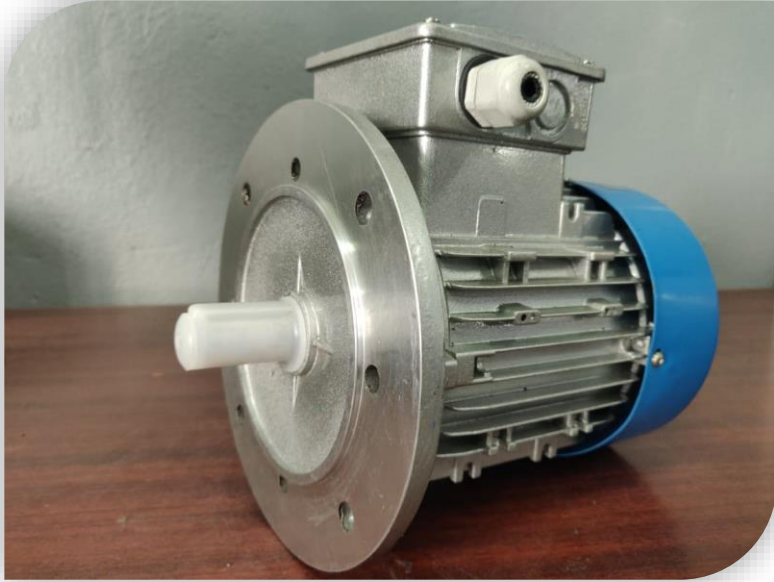


## 3 Phase Aluminium Series



❖ Flange Mounted Motor

❖ Foot Mounted Motor



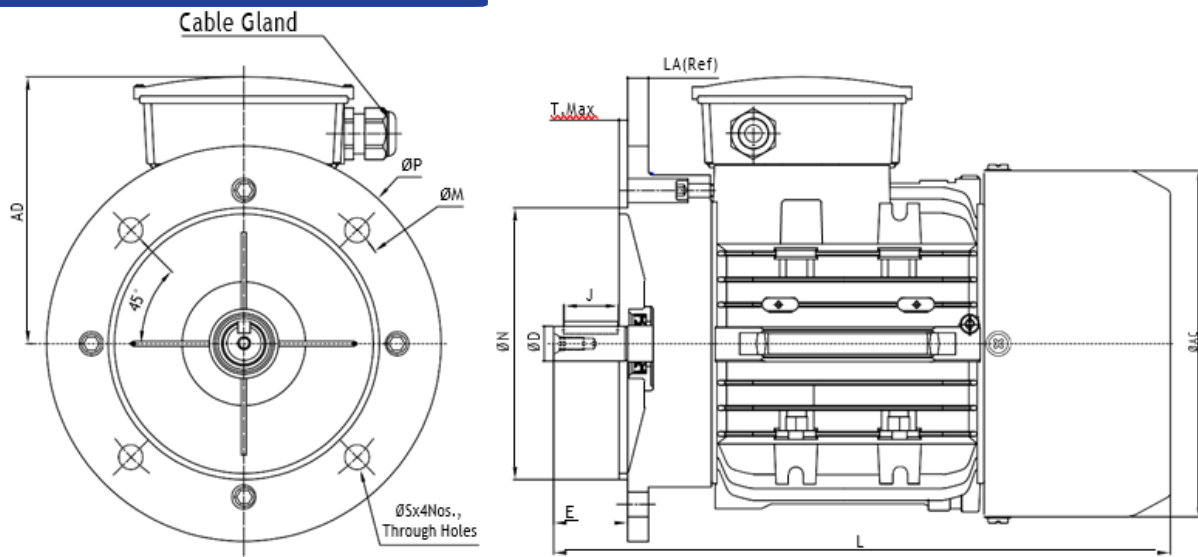
## Technical Specification

Standards	: IS 12615 : 2018, IEC/EN 60034 - 1, IEC/EN 60034 - 30 - 1
Frame Size	: 63 to 250M
Output Range	: 0.18 kW to 55 kW 0.25 HP to 75 HP
Number of Poles	: 2/4/6/8
Protection	: IP 55
Phase / Voltage	: 3 / 415V $\pm$ 10% or as required
Frequency	: 50 Hz $\pm$ 5% or as required
Duty	: S1 Continuous (S2 - S9 upon request)
Mounting Types	: B3 (Foot), B5 (Flange), B14 (Face), B35 (Foot & Flange), B34 (Foot & Face)
Cooling	: IC 411, TEFC
Temperature Class	: F Class (Temperature rise limited to B Class)
Ambient Temperature	: -10°C to 60°C
Altitude	: Upto 1000 m above mean sea level

## Performance Data

Rated Output HP (kW)	No. of Poles	RPM (sync)	Frame Size/Const.	100% Load			Breakaway	
				RPM	Eff%	A	I rated	T rated
0.25 (0.18)	2	3000	63/AL	2750	60.4	0.84	6.0	1.7
	4	1500	63/AL	1320	64.7	0.82	5.5	1.7
	6	1000	71/AL	860	56.6	0.92	6.0	1.6
0.33 (0.25)	2	3000	63/AL	2750	64.8	1.00	6.0	1.7
	4	1500	71/AL	1330	68.5	1.05	5.5	1.7
	6	1000	71/AL	860	61.6	1.10	6.0	1.6
0.50 (0.37)	2	3000	71/AL	2750	72.2	1.20	6.5	1.7
	4	1500	71/AL	1330	70.1	1.40	6.0	1.7
	6	1000	80/AL	870	69.0	1.40	6.0	1.6
0.75 (0.55)	2	3000	71/AL	2760	74.8	1.60	6.5	1.7
	4	1500	80/AL	1340	75.1	1.70	6.0	1.7
	6	1000	80/AL	870	72.9	1.90	6.0	1.6
1.00 (0.75)	2	3000	80/AL	2780	77.4	2.00	6.5	1.7
	4	1500	80/AL	1360	79.6	2.20	6.0	1.7
	6	1000	90S/AL	890	75.9	2.30	6.0	1.6
1.50 (1.10)	2	3000	80/AL	2790	79.6	2.80	6.5	1.7
	4	1500	90S/AL	1370	81.4	2.90	6.0	1.7
	6	1000	90L/AL/CI	900	78.1	3.20	6.0	1.6
2.00 (1.50)	2	3000	90S/AL	2800	81.3	3.70	6.5	1.7
	4	1500	90L/AL/CI	1380	82.8	3.80	6.0	1.7
	6	1000	100L/AL/CI	900	79.8	4.00	6.0	1.6
3.00 (2.20)	2	3000	90L/AL/CI	2810	83.2	5.00	7.0	1.7
	4	1500	100L/AL/CI	1390	84.3	5.10	7.0	1.7
	6	1000	112M/AL/CI	910	81.8	5.50	7.0	1.5
5.00 (3.70)	2	3000	100L/AL/CI	2820	85.5	8.00	7.0	1.6
	4	1500	112M/AL/CI	1410	86.3	8.10	7.0	1.6
	6	1000	132S/AL/CI	920	84.3	8.80	7.0	1.5

## Outline Dimension of B5 Motors



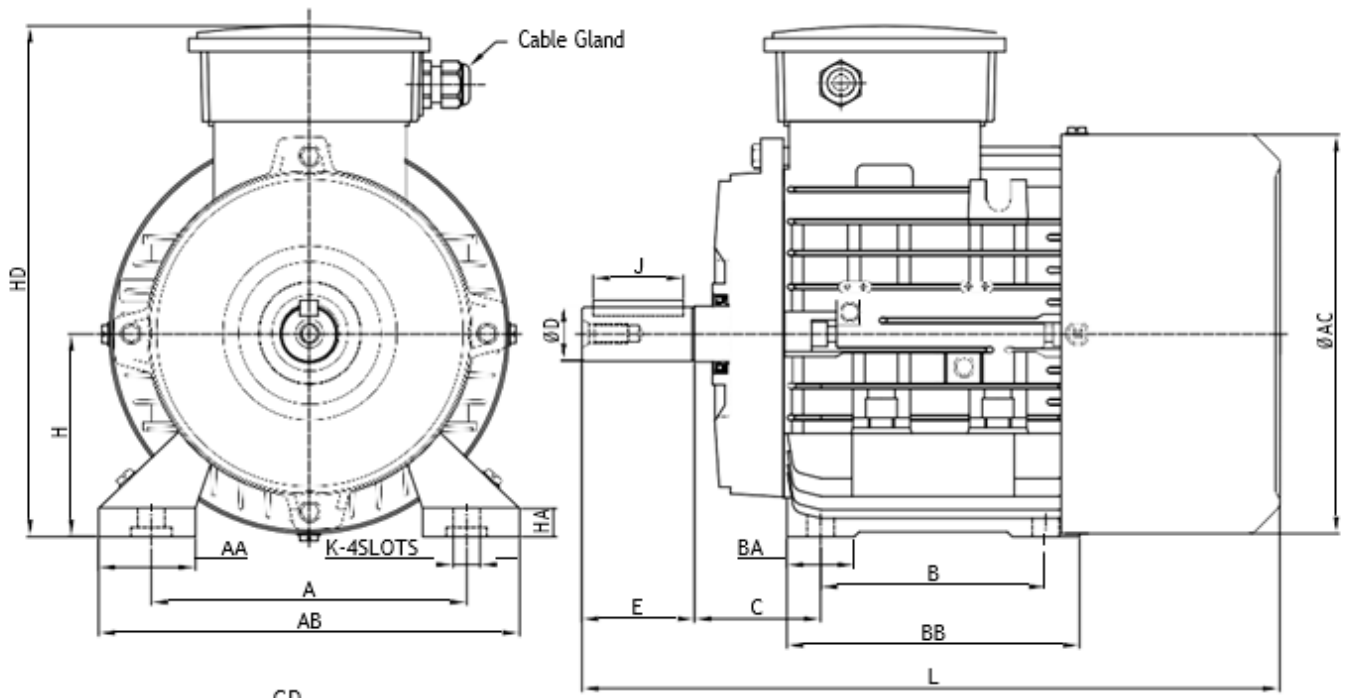
REFERENCE STANDARD - IS 2223 & IS 12615 FRAMES - 63 TO 112 (ALUMINIUM SERIES)

Frame Size	FLANGE FIXING						OVER ALL		
	$\text{ØM}^{\pm 0.3}$	$\text{ØN}$	$\text{ØP}^{-1.0/-0.0}$	$\text{ØS}$	T.Max	LA(Ref)	$\text{ØAC}$	$L \pm 10$	$AD \pm 10$
63	115	$95^{+0.013/-0.009}$	140	$10.0^{+0.360/+0.00}$	3.0	9	123	225	95
71	130	$110^{+0.013/-0.009}$	160	$10.0^{+0.360/+0.00}$	3.5	9	140	250	110
80	165	$130^{+0.014/-0.011}$	200	$12^{+0.43/+0.00}$	3.5	10	156	276	132
90S	165	$130^{+0.014/-0.011}$	200	$12^{+0.43/+0.00}$	3.5	10	178	296	145
90L	165	$130^{+0.014/-0.011}$	200	$12^{+0.43/+0.00}$	3.5	10	178	321	145
100L	215	$180^{+0.014/-0.011}$	250	$15^{+0.43/+0.00}$	4	11	198	367	153
112M	215	$180^{+0.014/-0.011}$	250	$15^{+0.43/+0.00}$	4	11	219	385	166

Frame Size	DRIVE END SHAFT EXTENSION AND KEY							CABLE GLAND
	$\text{ØD}$	$E^{-0.5/-0.0}$	F	GD	GA	J	DB	
63	$11^{+0.008/-0.003}$	23	$4^{+0.000/-0.030}$	$4^{+0.000/-0.030}$	12.5	16	M4x0.7P-12 $\nabla$	M16x1.5P
71	$14^{+0.008/-0.003}$	30	$5^{+0.000/-0.030}$	$5^{+0.000/-0.030}$	16	22	M5x0.8P-12 $\nabla$	M16x1.5P
80	$19^{+0.009/-0.004}$	40	$6^{+0.000/-0.030}$	$6^{+0.000/-0.030}$	21.5	28	M6x1.0P-16 $\nabla$	M20x1.5P
90S	$24^{+0.009/-0.004}$	50	$8^{+0.000/-0.036}$	$7^{+0.000/-0.090}$	27	40	M8x1.25P-20 $\nabla$	M20x1.5P
90L	$24^{+0.009/-0.004}$	50	$8^{+0.000/-0.036}$	$7^{+0.000/-0.090}$	27	40	M8x1.25P-20 $\nabla$	M20x1.5P
100L	$28^{+0.009/-0.004}$	60	$8^{+0.000/-0.036}$	$7^{+0.000/-0.090}$	31	50	M10x1.5P-24 $\nabla$	M20x1.5P
112M	$28^{+0.009/-0.004}$	60	$8^{+0.000/-0.036}$	$7^{+0.000/-0.090}$	31	50	M10x1.5P-24 $\nabla$	M20x1.5P

## Outline Dimension of B3 Motors

REFERENCE STANDARD - IS 2223 & IS 12615 FRAMES - 63 TO 112



Frame Size	FOOT FIXING									OVER ALL			
	A	B	C <sup>±0.8</sup>	H <sup>-0.0/-0.5</sup>	AA	AB	BA	BB	ØK x 4 Nos	ØAC	L <sup>±10</sup>	HD <sup>±10</sup>	HA
63	100 <sup>±0.8</sup>	80 <sup>±0.8</sup>	40	63	26	125	25	105	12.5 x 7.5	123	220	158	10
71	112 <sup>±1.2</sup>	90 <sup>±0.8</sup>	45	71	28	140	25	108	12.5 x 7.5	140	250	178	9
80	125 <sup>±1.2</sup>	100 <sup>±0.8</sup>	50	80	38	160	30	125	17.5 x 9.5	160	290	218	11
90S	140 <sup>±1.2</sup>	100 <sup>±0.8</sup>	56	90	43	187	30	130	18 x 12	178	310	227	12.5
90L	140 <sup>±1.2</sup>	125 <sup>±1.2</sup>	56	90	41	182	31	155	17.5 x 10	178	332	224	13.5
100L	160 <sup>±1.2</sup>	140 <sup>±1.2</sup>	63	100	44.5	194	38	166	18 x 12.5	198	363	246	11
112M	190 <sup>±1.2</sup>	140 <sup>±1.2</sup>	70	112	48	225	34	175.5	20 x 12	220	395	272	14

Frame Size	DRIVE END SHAFT EXTENSION AND KEY							CABLE GLAND
	ØD	E <sup>-0.5/-0.0</sup>	F	GD	GA	J	DB	
63	11 <sup>+0.008/-0.003</sup>	23	4 <sup>+0.000/-0.030</sup>	4 <sup>+0.000/-0.030</sup>	12.5	16	M4x0.7P-12 $\nabla$	M16x1.5P
71	14 <sup>+0.008/-0.003</sup>	30	5 <sup>+0.000/-0.030</sup>	5 <sup>+0.000/-0.030</sup>	16	22	M5x0.8P-12 $\nabla$	M16x1.5P
80	19 <sup>+0.009/-0.004</sup>	40	6 <sup>+0.000/-0.030</sup>	6 <sup>+0.000/-0.030</sup>	21.5	28	M6x1.0P-16 $\nabla$	M20x1.5P
90S	24 <sup>+0.009/-0.004</sup>	50	8 <sup>+0.000/-0.036</sup>	7 <sup>+0.000/-0.090</sup>	27	40	M8x1.25P-20 $\nabla$	M20x1.5P
90L	24 <sup>+0.009/-0.004</sup>	50	8 <sup>+0.000/-0.036</sup>	7 <sup>+0.000/-0.090</sup>	27	40	M8x1.25P-20 $\nabla$	M20x1.5P
100L	28 <sup>+0.009/-0.004</sup>	60	8 <sup>+0.000/-0.036</sup>	7 <sup>+0.000/-0.090</sup>	31	50	M10x1.5P-24 $\nabla$	M20x1.5P
112M	28 <sup>+0.009/-0.004</sup>	60	8 <sup>+0.000/-0.036</sup>	7 <sup>+0.000/-0.090</sup>	31	50	M10x1.5P-24 $\nabla$	M20x1.5P



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