

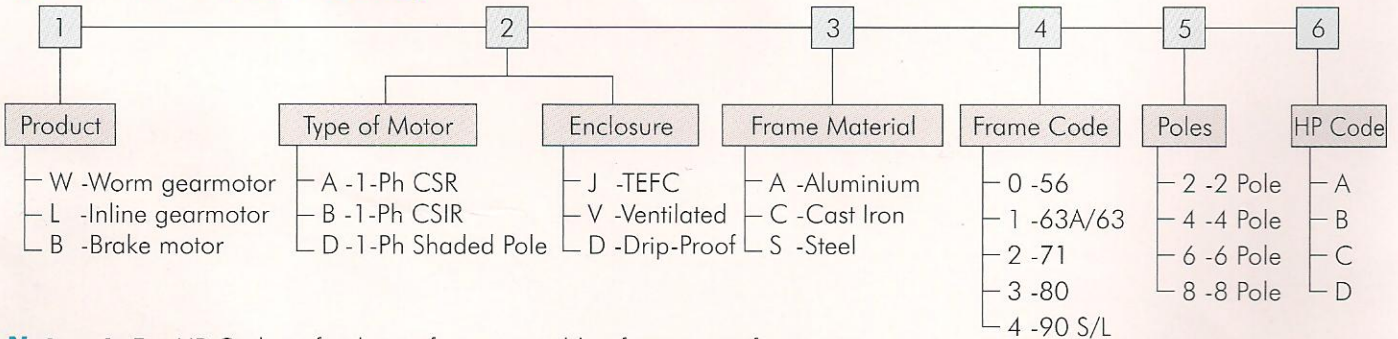
Eltek Single Phase motors have been a preferred choice of equipment designers and manufacturers. Compact and sleek designs of fractional horse power motors match well with modern equipments.

Eltek also has an impressive range of standard 3-phase AC induction motors, DC motors, integral worm gearmotors, inline gearmotors and Hollow shaft gearmotors. These motors can also be offered to suit special applications.

## Special features on request

- Non standard shaft extensions
- Non standard mounting dimensions
- Motors with Thermal Overload protection
- Motors with Class "F" insulation.
- Brake motors
- Special motors for blowers.

## System for Product coding



- Note :**
1. For HP Code, refer the performance table of respective frame size.
  2. Add "B" For flange mounted motors, "FB" for foot-cum flange and "C" for face mounted motors.
  3. For special shaft details, mention dimensions  $\phi$  D, E, F, and GA

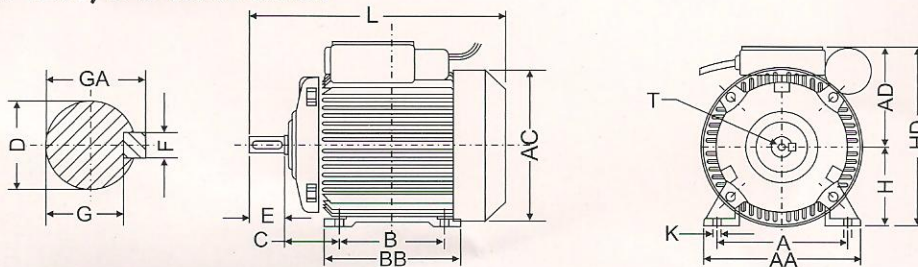
## Examples

- |    |    |   |   |   |  |   |
|----|----|---|---|---|--|---|
| 1  | 2  | 3 | 4 | 5 | 6  | Single Phase, CSIR, TEFC, Cast Iron Body, 90S Frame, 4-pole, 1/2 HP |
| BJ | C  | 4 | 4 | A | Single Phase, CSR, Ventilated, Steel body, 56 Frame, 4-pole, 1/6 HP      |   |
| AV | S  | 0 | 4 | E | Worm gearmotor, 1-Phase, CSR, TEFC, Alu. body, 71 Frame, 4-pole, 1/4 HP. |   |
| W  | AJ | A | 2 | 4 | A  |   |

## Frame Dimensions :

### TEFC Motors CSR and CSIR type (A... and B...)

#### Foot mounted (IS: 1231) B-3 Construction



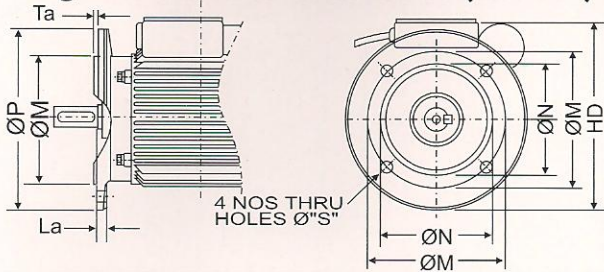
Frame	Code	A	B	C	H	K	AA	BB	L	AD	HD	AC $\phi$	D $\phi$	E	F	G	GA	T	WT. (kg)
*56	AJA 0...	70	50	30	56	5.8	85	65	156	65	116	90	9 j6	20	3 p9	7.5	10.5	--	1.3
*63 A	AJA 1A...	100	52*	40	63	7	119	70*	184*	73*	136*	117	11 j6	23	4 p9	8.5	12.5	M4	3.5
63	AJA 1...		80					96	208	82	145								4.4
71	AJA 2...	112	90	45	71		133	110	248	92	163	139	14 j6	30	5 p9	11.0	16	M5	7
80	AJA 3...	125	100	50	80	10	155	125	283	120	200	157	19 j6	40	6 p9	15.5	21.5	M6	14
	BJC 3...																		
90S	BJC 4...	140	100	56	90	10	170	132	310	135	225	177	24 j6	50	8 p9	20.0	27.0	M8	19
90L	BJC 4...		125					155	335										24

\*Non standard frame

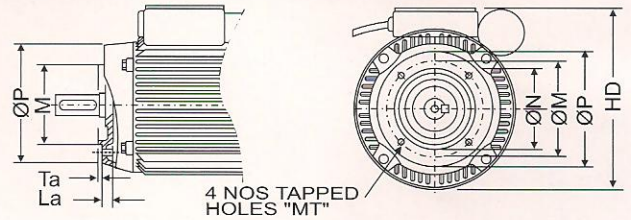
## Frame Dimensions :

### TEFC Motors CSR and CSIR type (A... and B...)

#### Flange mounted : Construction B5 (IS: 2223)



#### Face mounted : Construction B14 (IS: 2223)



Frame	Code	Flange	M Ø	N Ø	P Ø	S Ø	Ta	La	HD
56*	AJ A 0...	F 110 B	110	95 j6	125	6.5	3.0	8.5	125
63 A*	AJ A 1A...	F 115 B	115	95 j6	140	10	3	9	145
63	AJ A 1...								153
71	AJ A 2...	F 130 B	130	110 j6	160	10	3.0	9.5	173
80	AJ A 3...	F 165 B	165	130 j6	200	12	3.5	10	220
	BJ C 4...								
90S	BJ C 3...	F 165 B	165	130 j6	200	12	3.5	10	225
90L	BJ C 4...								

Frame	Code	Flange	M Ø	N Ø	P Ø	MT	Ta	La	HD
56*	AJ A 0...	F 65 C	65	50 j6	80	M5	2.5	5	110
63 A*	AJ A 1A...	F 75 C	75	60 j6	90	M5	2.5	5	135
63	AJ A 1...								140
71	AJ A 2...	F 85 C	85	70 j6	105	M6	3.0	8	165
80	AJ A 3...	F 100 C	100	80 j6	120	M6	3.0	8	200
	BJ C 4...								
90S	BJ C 3...	F 115 C	115	95 j6	140	M8	3.0	10	225
90L	BJ C 4...								

For other dimensions, refer table of Foot mounted motors.

### Performance : TEFC Motors CSR type (A...)

(At 230V, 50 Hz, Single Phase, Class "B" Insulation, Ambient 45°C)

#### 2-Pole, 3000 RPM (Synchronous)

Frame	Code	Out-put		Rated Performance Values					
		HP	W	Torque kg-m	Amps.	RPM	Eff. %	STT %	
*56	AJ A 0 2A	1/20	40	0.015	0.35	2640	39.0	60	
63 A	AJ A 1A 2A	1/12	60	0.020	0.40	2820	52.0	140	
63 A	AJ A 1A 2B	1/10	75	0.025	0.52	2780	53.0	110	
63	AJ A 1 2A	1/8	90	0.030	0.83	2790	54.0	110	
63	AJ A 1 2B	1/6	120	0.042	1.00	2800	54.0	90	
71	AJ A 2 2A	1/4	180	0.063	1.50	2820	58.0	80	
71	AJ A 2 2B	1/2	370	0.128	3.0	2850	67.0	50	
80	AJ A 3 2A	3/4	550	0.188	6.0	2850	70.0	45	

#### 4-Pole, 1500 RPM (Synchronous)

Frame	Code	Out-put		Rated Performance Values					
		HP	W	Torque kg-m	Amps.	RPM	Eff. %	STT %	
*56	AJ A 0 4A	1/20	40	0.010	0.35	1340	27.0	160	
63 A	AJ A 1A 4A	1/12	60	0.035	0.47	1290	43.0	75	
63 A	AJ A 1A 4B	1/10	75	0.055	0.54	1290	46.0	75	
63	AJ A 1 4A	1/8	90	0.067	0.75	1300	48.0	80	
63	AJ A 1 4B	1/6	120	0.084	0.86	1340	61.0	75	
71	AJ A 2 4A	1/4	180	0.130	1.20	1400	73.0	80	
80	AJ A 3 4A	1/2	370	0.280	3.00	1410	53.0	95	

#### 6-Pole, 1000 RPM (Synchronous)

Frame	Code	Out-put		Rated Performance Values					
		HP	W	Torque kg-m	Amps.	RPM	Eff. %	STT %	
63 A	AJ A 1A 6A	1/20	40	0.04	0.65	720	25.0	30	
63	AJ A 1 6A	1/12	60	0.06	0.70	750	28.0	40	
71	AJ A 2 6A	1/8	90	0.10	0.85	800	45.0	50	
71	AJ A 2 6B	1/6	120	0.13	1.40	830	48.0	60	
80	AJ A 3 6A	1/4	180	0.19	2.30	880	53.0	60	
80	AJ A 3 6B	1/2	370	0.41	3.30	910	60.0	50	

#### 8-Pole, 750 RPM (Synchronous)

Frame	Code	Out-put		Rated Performance Values					
		HP	W	Torque kg-m	Amps.	RPM	Eff. %	STT %	
63	AJ A 1 8A	1/20	40	0.061	0.30	580	20.0	40	
71	AJ A 2 8A	1/12	60	0.090	0.60	670	25.0	45	
80	AJ A 3 8A	1/8	90	0.131	1.10	680	32.0	50	
80	AJ A 3 8B	1/6	120	0.168	1.60	710	36.0	50	

### Performance : TEFC Motors CSIR type (B...)

(At 230V, 50 Hz, Single Phase, Class "B" Insulation, Ambient 45°C)

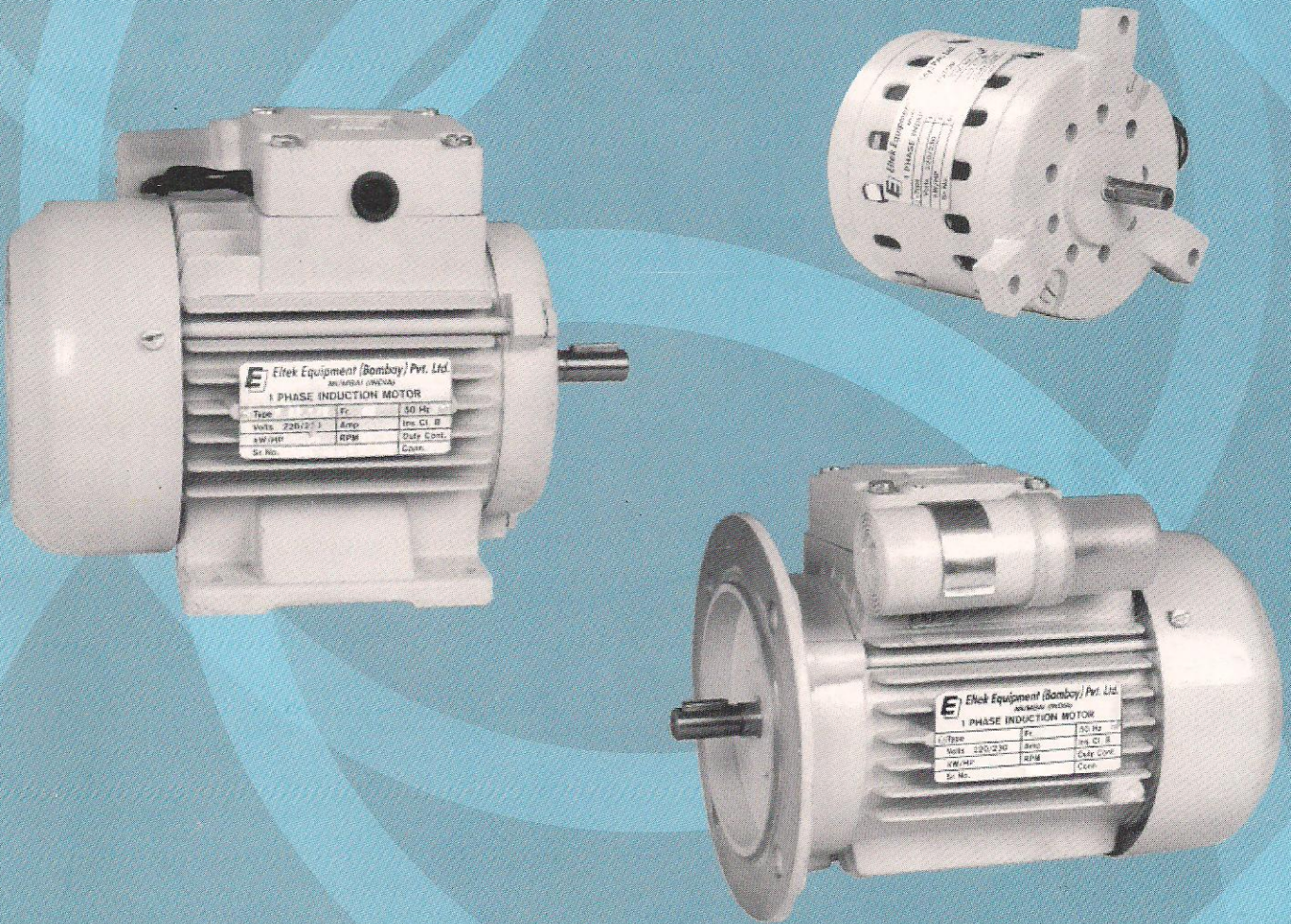
#### 4-Pole, 1500 RPM (Synchronous)

Frame	Code	Out-put		Rated Performance Values								
		HP	W	Torque kg-m	Current Amps.	Speed RPM	Efficiency %	P.F. cos Ø	Starting Current %	Starting Torque %	Pullout Torque %	
80	BJ C 3 4A	1/4	180	0.130	2.80	1350	58.0	0.52	375	200	200	
90S	BJ C 4 4A	1/2	370	0.280	4.50	1410	65.0	0.55	375	200	150	
90L	BJ C 4 4B	3/4	550	0.390	7.00	1450	71.0	0.70	400	250	165	
90L	BJ C 4 4C	1	750	0.520	9.50	1420	74.0	0.77	370	185	115	



# Eltek Motors

Fractional Horse Power Single Phase Motors  
Standard and Special



## Dependable Drive...

### Features ...

- ◆ Compact & Light Weight
- ◆ Wide Range ... 1/50 HP (15W) to 1 HP (750W)
- ◆ All Types ... Shade Pole, CSR, CSIR
- ◆ Different Enclosures ... TE, TEFC, DP, Ventilated
- ◆ Variety of Constructions ... Foot, Flange, Face, Special
- ◆ Variety of Motor Bodies ... Aluminium, Steel Rolled, Cast Iron
- ◆ Motors with built-in Worm Gear Box, Inline Shaft Gear Box and Hollow Shaft Gear Box