



# Victor MOTORS



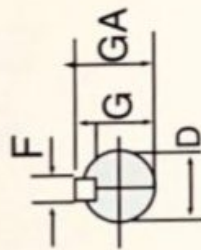
Always Ahead...



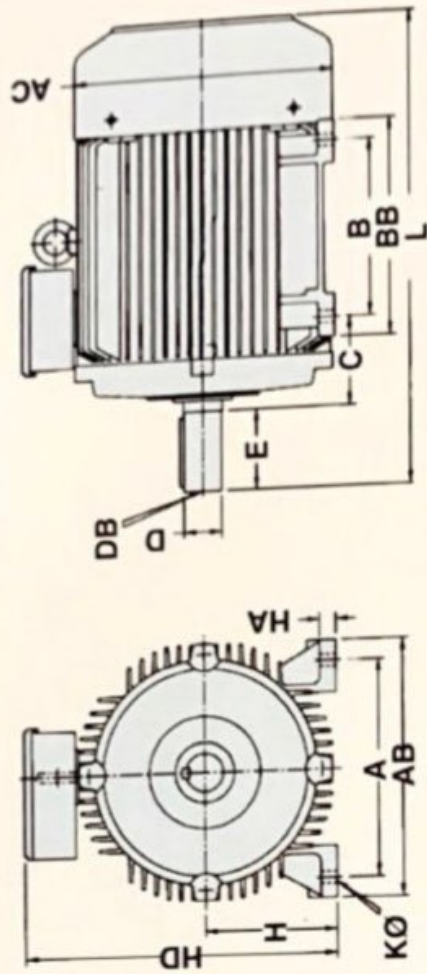
**Victor Electrical & Mechanical Co. (Regd.)**



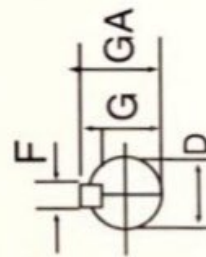
FOOT MOUNTING (B3)



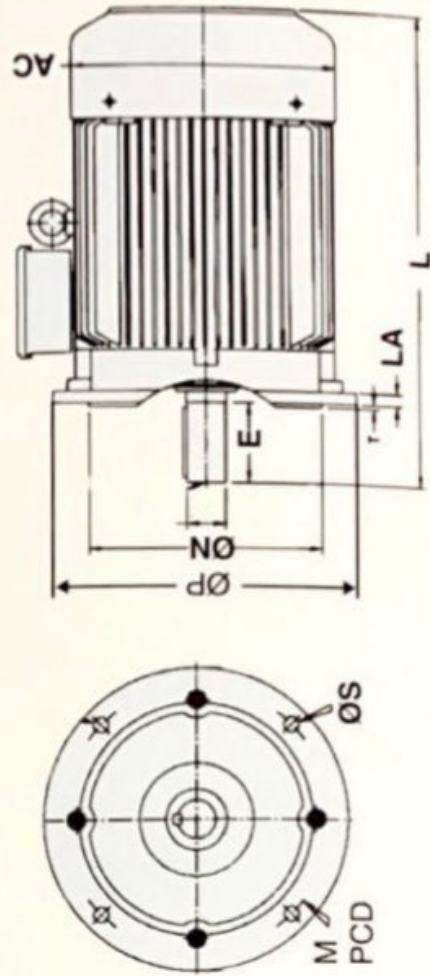
SHAFT



FLANGE MOUNTING (B5)



SHAFT



Note : Due to Constant Improvement in Design & Specifications, The Product Supplied may vary Slightly From the Specifications of the Leaflet.



**MECHANICAL DIMENSIONS**  
**DIMENSIONS OF FOOT (B3) AND FLANGE (B5) MOUNTED MOTORS**

Frame Size	For foot mounted motors only (B3)										For flange mounted motors size (B5)						Shaft size						Weight Approx		
	A	B	C	H	K	AB	BB	AC	HA	HD	P	N SHEET DAYA	M PCD	ØS	T	LA	D	E	F	GA	G	DB		L	
63	100	80	40	63	7	122	102	115	7	163	140	95	115	10	3	9	11	23	4	12.5	8.5	M4	206	6.0 ALU	
71	112	90	45	71	7	134	112	130	8	176	160	110	130	10	3.5	9	14	30	5	16	11	M5	240	8.0 ALU	
80	125	100	50	80	10	150	125	158	9	202	200	130	165	12	3.5	10	19	40	6	21.5	15.5	M6	277	17 CI	
90S	140	100	56	90	10	168	124	172	10	219	200	130	165	12	3.5	10	24	50	8	27	20	M8	297	22.5 CI	
90L	140	125					149																322	23.5 CI	
100L	160	140	63	100	12	200	180	198	14	252	250	180	215	15	4	11	28	60	8	31	24	M10	366	33 CI	
112M	190	140	70	112	12	230	180	219	15	277	250	180	215	15	4	11	28	60	8	31	24		389	42 CI	
132S	216	140	89	132	12	256	180	254	16	317	300	230	265	15	4	12	38	80	10	41	33	M12	437	67 CI	
132M	216	178					218																475	71 CI	
160M	254	210	108	160	15	304	260	311	20	371	350	250	300	19	5	13	42	110	12	45	37		576	110 CI	
160L	254	254					304																620	140 CI	
180M	279	241	121	180	15	335	297	336	24	413	350	250	300	19	5	13	48	110	14	51.5	42.5	M16	643	170 CI	
180L	279	279					335																681	210 CI	
200L	318	305	133	200	19	386	365	395	26	476	400	300	350	19	5	15	55	110	16	59	49		760	240 CI	
225S		286																					805	280 CI	
225M	356	311	149	225	19	428	371	435	28	522	450	350	400	19	5	16	60	140	16	59	49	M20	835	310 CI	
225SX		286																							
225MX		311																							

Note : Due to Constant Improvement in Design & Specifications. The Product Supplied may vary Slightly From the Specifications of the Leaflet.



**ELECTRICAL PERFORMANCE DATA**

**2 POLE MOTOR - 2800 RPM**

Frame	Output		Speed (rpm)	Curr. (A)	Torq. (Kgm)	Efficiency %			Power Factor			STA	STT	POT	GD <sup>2</sup> (kgm <sup>2</sup> )
	KW	HP				FL	3/4L	1/2L	FL	3/4L	1/2L				
63	0.25	0.33	2790	0.67	0.09	66.0	66.0	60.0	0.79	0.69	0.57	4.7	2.0	2.3	
71	0.37	0.50	2790	0.91	0.13	67.0	66.0	61.0	0.84	0.78	0.68	4.7	2.4	2.7	0.0010
71	0.55	0.75	2815	1.25	0.19	72.0	72.0	64.0	0.84	0.79	0.71	4.7	2.4	2.7	0.0016
80	0.75	1.0	2845	1.7	0.26	73.5	72.0	67.0	0.84	0.80	0.73	5.5	2.3	2.6	0.0022
80	1.1	1.5	2850	2.3	0.38	77.0	74.0	70.0	0.86	0.82	0.75	5.5	2.3	2.6	0.0038
90S	1.5	2.0	2860	3.1	0.51	78.5	75.0	68.0	0.86	0.77	0.61	6.0	2.5	3.0	0.0049
90L	2.2	3.0	2880	4.3	0.74	81.0	78.0	72.5	0.88	0.80	0.70	6.0	2.5	3.0	0.0072
100L	3.7	5.0	2900	7.1	1.24	84.0	84.0	82.0	0.86	0.83	0.75	6.0	2.5	3.0	0.0093
112M	5.5	7.5	2905	10.0	1.84	85.7	85.7	82.0	0.89	0.86	0.78	6.0	2.5	3.0	0.0130
132S	7.5	10.0	2910	13.3	2.51	87.0	86.0	84.0	0.90	0.87	0.81	6.0	2.3	2.8	0.0198
132M	9.3	12.5	2915	16.4	3.11	87.0	87.0	85.0	0.91	0.87	0.81	6.0	2.3	2.8	0.0583
160M	11.0	15.0	2920	20.0	3.67	88.5	87.5	85.5	0.86	0.84	0.79	6.5	2.2	2.5	0.0716
160M	15.0	20.0	2925	26.5	4.99	89.5	88.5	86.0	0.88	0.86	0.80	6.5	2.2	2.5	0.1077
160L	18.5	25.0	2930	32.0	6.15	90.0	89.5	87.0	0.89	0.86	0.81	6.5	2.2	2.5	0.1301
180M	22.0	30.0	2935	37.0	7.30	91.0	90.0	88.0	0.91	0.87	0.81	6.5	2.2	2.5	0.1705
200L	30.0	40.0	2950	51.0	9.91	91.5	91.0	90.0	0.89	0.87	0.82	6.5	2.2	2.5	0.3222
200L	37.0	50.0	2950	62.0	12.22	92.0	92.0	91.0	0.90	0.88	0.83	6.5	2.2	2.5	0.4468
															0.5257

**6 POLE MOTOR - 960 RPM**

Frame	Output		Speed (rpm)	Curr. (A)	Torq. (Kgm)	Efficiency %			Power Factor			STA	STT	POT	GD <sup>2</sup> (kgm <sup>2</sup> )
	KW	HP				FL	3/4L	1/2L	FL	3/4L	1/2L				
71	0.18	0.25	900	0.65	0.19	60.0	55.0	42.0	0.64	0.55	0.38	3.0	2.0	2.1	0.0033
80	0.37	0.50	915	1.10	0.39	67.0	66.0	63.0	0.70	0.63	0.51	4.0	2.0	2.1	0.0049
80	0.55	0.75	920	1.55	0.58	70.0	69.0	66.0	0.71	0.63	0.51	4.0	2.0	2.1	0.0063
90S	0.75	1.0	925	2.0	0.79	72.0	71.0	66.0	0.72	0.64	0.52	5.0	2.2	2.4	0.0095
90L	1.1	1.5	930	2.9	1.15	75.0	74.0	69.0	0.70	0.58	0.42	5.0	2.2	2.4	0.0122
100L	1.5	2.0	940	3.5	1.55	76.0	75.0	71.0	0.78	0.73	0.60	5.0	2.0	2.3	0.0269
112M	2.2	3.0	945	4.9	2.27	80.0	79.5	75.5	0.78	0.70	0.55	5.0	2.0	2.3	0.0047
132S	3.7	5.0	950	7.5	3.79	82.5	82.5	81.5	0.83	0.73	0.64	5.0	2.0	2.3	0.0826
132M	5.5	7.5	950	11.0	5.64	85.0	85.0	83.5	0.82	0.77	0.67	5.0	2.0	2.3	0.1156
160M	7.5	10.0	960	15.0	7.61	87.0	87.0	84.5	0.80	0.76	0.68	5.5	2.0	2.3	0.2625
160L	9.3	12.5	965	17.5	9.39	88.0	88.0	85.0	0.84	0.81	0.70	5.5	2.0	2.3	0.3440
160L	11.0	15.0	970	20.5	11.05	88.5	88.5	87.5	0.84	0.81	0.70	5.5	2.0	2.3	0.3440
180L	15.0	20.0	970	27.5	15.06	89.5	89.5	88.0	0.85	0.82	0.72	5.5	2.0	2.3	0.5949
200L	18.5	25.0	975	34.0	18.48	90.5	90.5	89.0	0.84	0.82	0.73	5.5	2.0	2.3	0.8605
200L	22.0	30.0	975	40.0	21.98	91.0	91.0	90.5	0.84	0.82	0.73	5.5	2.0	2.3	1.0123
225MX	30.0	40.0	980	54.0	29.82	92.0	92.0	90.5	0.84	0.82	0.74	6.0	2.0	2.3	1.8378
250MX	37.0	50.0	982	66.5	36.70	92.5	92.5	90.5	0.84	0.82	0.74	6.0	2.0	2.3	2.5127

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**ELECTRICAL PERFORMANCE****4 POLE MOTOR - 1440 RPM**

Frame	Output		Speed (rpm)	Curr. (A)	Torq. (Kgm)	Efficiency %			Power Factor			STA	STT	POT	GD <sup>2</sup> (kgm <sup>2</sup> )
	KW	HP				FL	3/4L	1/2L	FL	3/4L	1/2L				
63	0.18	0.25	1360	0.57	0.13	60.0	53.0	38.0	0.73	0.58	0.45	3.5	1.9	2.1	0.0010
71	0.37	0.50	1380	1.05	0.26	66.0	65.0	58.0	0.74	0.64	0.53	3.5	1.9	2.1	0.0022
80	0.55	0.75	1410	1.45	0.38	73.0	72.0	69.0	0.72	0.62	0.52	4.3	2.0	2.3	0.0038
80	0.75	1.0	1415	1.75	0.52	74.0	73.0	68.0	0.81	0.70	0.55	4.5	2.0	2.3	0.0049
90S	1.1	1.5	1415	2.5	0.76	76.5	76.0	74.0	0.80	0.70	0.55	5.0	2.2	2.5	0.0072
90L	1.5	2.0	1420	3.3	1.03	79.0	79.0	77.0	0.80	0.70	0.55	5.0	2.2	2.5	0.0093
100L	2.2	3.0	1430	4.4	1.50	82.0	82.0	80.0	0.85	0.81	0.63	5.5	2.2	2.5	0.0182
112M	3.7	5.0	1440	7.2	2.50	85.0	85.0	84.0	0.84	0.78	0.70	5.5	2.2	2.5	0.0342
132S	5.5	7.5	1450	10.6	3.69	87.0	87.0	86.0	0.83	0.78	0.63	5.5	2.3	2.5	0.0676
132M	7.5	10.0	1450	14.0	5.04	87.0	87.0	86.0	0.84	0.79	0.69	5.5	2.3	2.5	0.0912
160M	9.3	12.5	1455	17.2	6.23	88.0	88.0	87.0	0.85	0.77	0.66	6.0	2.2	2.5	0.1404
160M	11.0	15.0	1455	20.8	7.36	89.0	89.0	87.0	0.83	0.75	0.66	6.0	2.2	2.5	0.1696
160L	15.0	20.0	1455	27.0	10.04	90.0	90.5	89.0	0.86	0.84	0.75	6.0	2.2	2.5	0.2222
180M	18.5	25.0	1460	34.0	12.34	90.5	90.5	89.5	0.84	0.81	0.74	6.0	2.2	2.5	0.3222
180L	22.0	30.0	1460	39.0	14.68	91.0	91.0	90.0	0.86	0.82	0.76	6.0	2.2	2.5	0.3790
200L	30.0	40.0	1465	52.0	19.95	92.0	92.0	91.0	0.87	0.84	0.77	6.0	2.2	2.5	0.8066
225SX	37.0	50.0	1470	64.0	24.52	92.5	92.5	91.5	0.87	0.85	0.79	6.0	2.2	2.5	1.2224
225MX	45.0	60.0	1475	77.0	29.72	93.0	93.0	92.0	0.87	0.85	0.79	6.0	2.2	2.5	1.4552

**8 POLE MOTOR - 750 RPM**

Frame	Output		Speed (rpm)	Curr. (A)	Torq. (Kgm)	Efficiency %			Power Factor			STA	STT	POT	GD <sup>2</sup> (kgm <sup>2</sup> )
	KW	HP				FL	3/4L	1/2L	FL	3/4L	1/2L				
71	0.12	0.16	665	0.65	0.18	50.0	46.0	38.0	0.51	0.45	0.35	2.5	1.5	1.7	0.0033
80	0.25	0.33	690	1.05	0.35	57.0	54.0	45.0	0.58	0.49	0.40	3.0	1.6	1.8	0.0063
90S	0.37	0.50	690	1.30	0.52	64.0	62.0	55.0	0.62	0.53	0.43	3.5	1.7	1.9	0.0095
90L	0.55	0.75	690	1.85	0.76	67.0	66.0	61.0	0.62	0.53	0.43	3.5	1.7	1.9	0.0122
100L	0.75	1.0	700	2.1	1.04	72.0	71.0	66.0	0.69	0.59	0.46	4.0	1.8	2.0	0.0228
100L	1.1	1.5	700	3.0	1.53	74.0	73.0	71.0	0.69	0.60	0.48	4.0	1.8	2.0	0.0296
112M	1.5	2.0	705	3.9	2.07	77.0	77.0	74.0	0.69	0.64	0.51	4.0	1.9	2.1	0.0467
132S	2.2	3.0	710	5.2	3.02	79.0	79.0	76.0	0.75	0.65	0.52	5.0	2.2	2.4	0.0826
132M	3.7	5.0	710	8.6	5.08	81.0	81.0	79.0	0.74	0.65	0.52	5.0	2.2	2.4	0.1156
160M	5.5	7.5	720	12.0	7.44	86.0	86.0	83.0	0.74	0.68	0.58	5.0	2.0	2.2	0.2565
160L	7.5	10.0	720	15.7	10.15	87.0	87.0	85.0	0.76	0.71	0.58	5.0	2.0	2.2	0.3440
180M	9.3	12.5	725	20.0	12.49	87.5	87.5	85.0	0.74	0.70	0.57	5.0	2.0	2.2	0.5057
180L	11.0	15.0	725	24.0	14.78	88.0	88.0	85.0	0.72	0.68	0.55	5.0	2.0	2.2	0.5949
200L	15.0	20.0	725	31.0	20.15	88.5	88.0	86.0	0.76	0.72	0.60	5.0	2.0	2.2	1.0123
225SX	18.5	25.0	728	37.0	24.75	89.5	89.5	88.0	0.78	0.74	0.68	5.0	2.0	2.2	1.5437
225MX	22.0	30.0	730	44.0	29.35	90.5	90.5	89.0	0.77	0.73	0.68	5.0	2.0	2.2	1.8378

Note : Due to Constant Improvement in Design & Specifications. The Product Supplied may vary Slightly From the Specifications of the Leaflet.



# Victor PANELS

## THYRISTOR CONTROL UNIT FOR SPEED VARIATION OF D.C. MOTORS

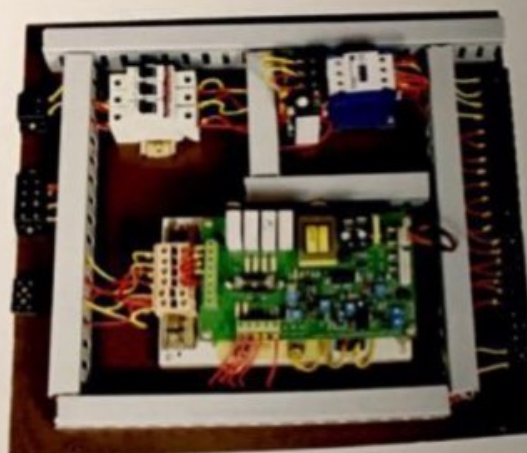
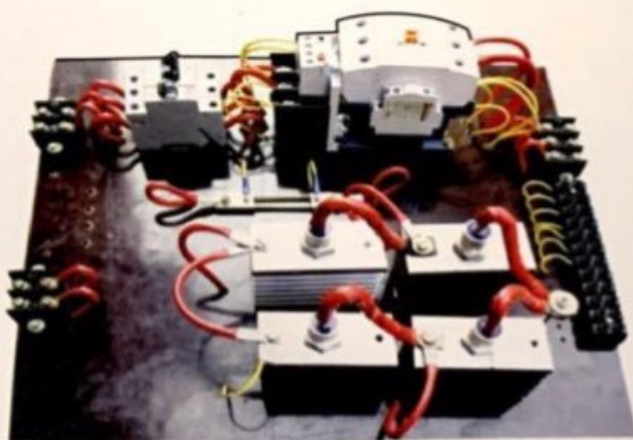
### DC Drive

Victor DC Drives are built with one single point in mind - Reliability with virtual elimination of most common causes of failure. These drives can be used as components in your panels. In addition, several new innovative features allow a much enhanced performance from your system.

Drive available are  $\frac{1}{2}$  to 5 HP in Single Phase 220V Armature, upto 10 HP in phase to phase supply 360/380V Armature, and in 3 phase from 3 HP to 30 HP 440V Armature, all as service plate with consistent NC punched/drilled mounting holes.

Amongst the types of control offered are :

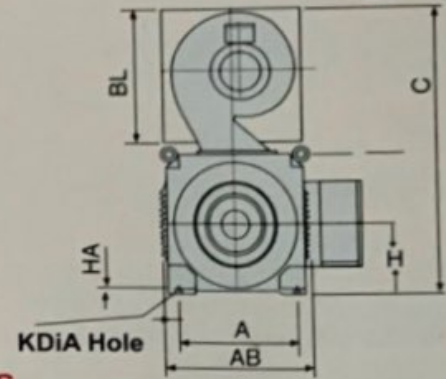
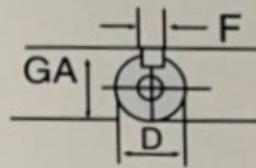
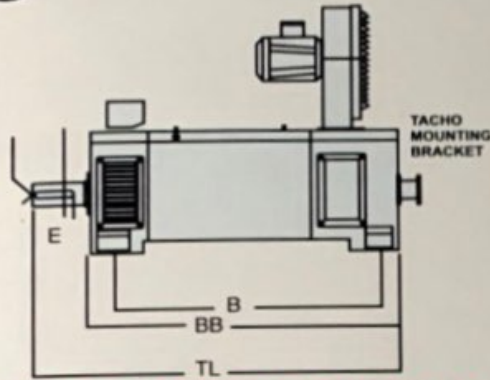
- (A) Constant Torque, variable speed
- (B) Constant current (Hyperbolic Tension in Tension Controlled Systems)
- (C) Constant Tension with over speed interlock (Tension may either be kept constant or tapered as desired)
- (E) Dual bridge regenerative drives.



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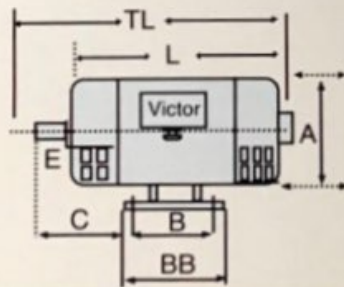


**(Laminated Yoke)**

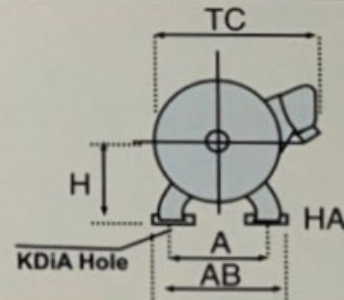
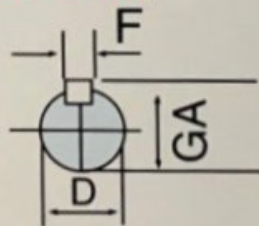


**VICTOR DC MOTOR LAMINATED YOKE DIMENSIONS**

Kw	HP	Frame	A	B	C	D	E	F	GA	H	K	TL	AB	BB	BL
0.37	0.5	80S	140	158	195	19	40	6	22	80	10	300	162	250	-
0.75	1.0	80M	140	180	195	19	40	6	22	80	10	355	162	305	-
1.11	1.5	100S	145	245	225	24	50	8	27	100	10	425	170	360	-
1.75	2.0	100M	145	270	225	24	50	8	27	100	10	445	170	380	-
2.20	3.0	100L	145	325	225	24	60	8	27	100	10	500	170	438	-
3.75	5.0	100K	165	320	410	28	60	8	31	100	12	585	200	425	220
5.5	7.5	100S	165	400	410	32	80	10	35	100	12	600	200	500	220
7.5	10.0	100L	165	500	410	32	80	10	35	100	12	700	200	600	220
12.5	15.0	112M	190	545	500	32	80	10	35	112	12	725	225	650	270
15.0	20.0	112L	190	595	500	32	80	10	35	112	12	775	225	700	270
18.5	25.0	132M	216	516	545	38	80	10	41	132	12	782	258	616	270
22	30.0	132L	216	566	545	38	80	10	41	132	12	822	258	656	270
30	40.0	160S	254	386	637	48	110	12	51.5	160	12	825	312	455	270
37	50.0	160M	254	436	637	48	110	12	51.5	160	14	875	312	505	270



**(Solid Yoke)**



KW	HP	Frame	A	B	C	D	E	F	GA	H	K	L	AB	BB	TL	HA	TC
0.37	0.5	90	143	93	130	19	40	6	22	90	10	255	165	110	295	10	200
0.75	1.0	100	150	90	160	19	40	6	22	100	10	310	185	125	365	10	210
1.1	1.50	100	150	90	175	24	50	8	27	100	10	310	185	125	380	10	210
1.5	2.0	125	155	150	150	24	60	8	31	125	12	335	190	180	405	10	250
2.20	3.0	125	155	150	170	28	60	8	31	125	12	385	190	180	455	10	250
3.7	5.0L	135	200	130	200	28	60	8	31	135	12	400	250	180	475	12	250
3.7	5.0H	160	200	130	180	28	60	8	31	160	12	400	250	180	475	12	300

Note : Due to Constant Improvement in Design & Specifications. The Product Supplied may vary Slightly From the Specifications of the Leaflet.



# AC Drives

## VFD-B

### General Purpose Drive

- Output frequency : 0.400Hz and power range : 0.75-75kW
- Adjustable V/f curve and vector control
- 16-step speed control and 15-step preset speed process control
- Built-in PID feedback control
- Auto torque boost & slip compensation
- Compatible with Modbus (baud rate up to 38400 bps)
- Optional communication modules (DN-02, LN-01, PD-01)



## VFD-F

### Fan and Pump Applications Drive

- Output frequency : 0.1 - 120 Hz and Power range : 0.75-220 kW
- Adjustable V/f curve
- 16-step speed control and 15-step preset speed process control
- Built-in PID feedback control
- Time/fix amount circulation control
- Compatible with Modbus (baud rate up to 38400 bps)
- Optional communication modules (DN-02, LN-01, PD-01)

## VFD-M

### Sensorless Vector Control Micro Drive

- Output frequency : 0.1 - 400 Hz
- Adjustable V/f curve and vector control
- Carrier frequency up to 15kHz
- Auto torque boost & slip compensation
- Built-in PID feedback control
- Holding torque function at zero speed
- Built-in sleep/revival function
- Optional communication modules (DN-02, LN-01, PD-01)

## VFD-S

### Small and Easy Used Drive

- Output frequency : 0.1 - 400 Hz and power range : 0.2-2-2kW
- Adjustable V/f curve
- Carrier frequency up to 10kHz
- Built-in PID feedback control
- Compatible with Modbus (baud rate up to 38400 bps)
- Restart function for momentary power failure or fault
- Built-in sleep/revival function
- Optional communication modules (DN-02, LN-01, PD-01)

Note : Due to Constant Improvement in Design & Specifications. The Product Supplied may vary Slightly From the Specifications of the Leaflet.





Electrical performance for Cooling Tower 3 Phase Sq. cage induction motors suitable for 415V±10% 50HZ±5% ambient temperature 45°C, Class 'F' insulation with class B temp. rise, IP 55 protection, totally enclosed (TE) construction, continuous (S1) duty.



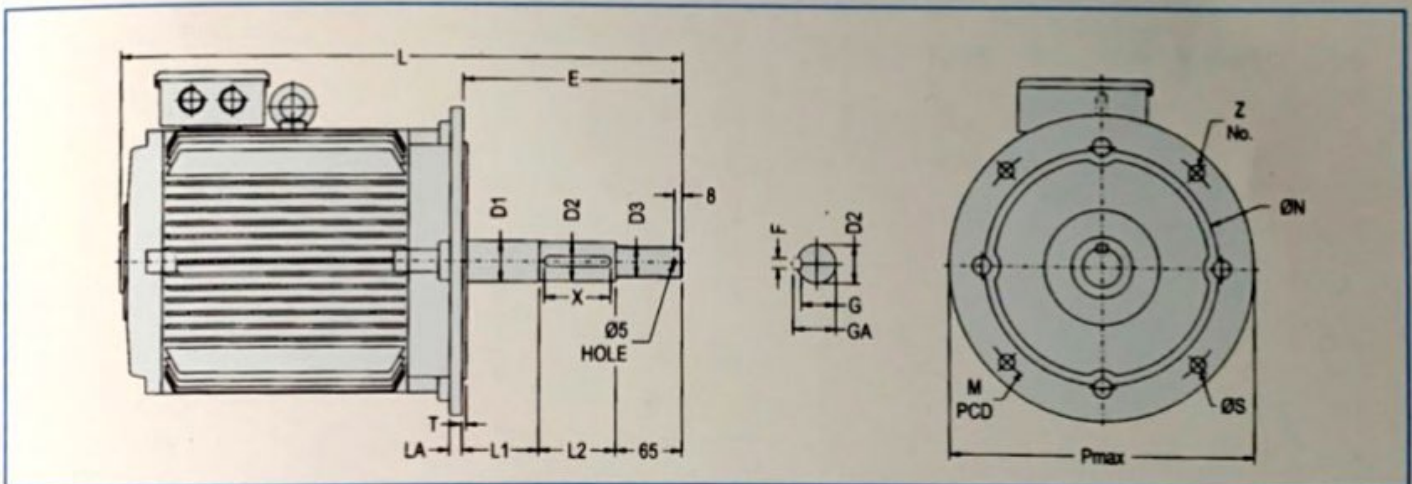
**COOLING TOWER MOTORS**

VICTOR CO. Cooling tower motors are specially designed flange mounted motors in totally enclosed construction to suit air conditioning & refrigeration industries. They are provided with special long shaft construction with external threaded end to directly mount the fan blades. This also helps in the better cooling of the motor. Motors are compact in design & less in weight to facilitate easy maintenance. They are available as standard catalogue designs or as custom built.

**FEATURES**

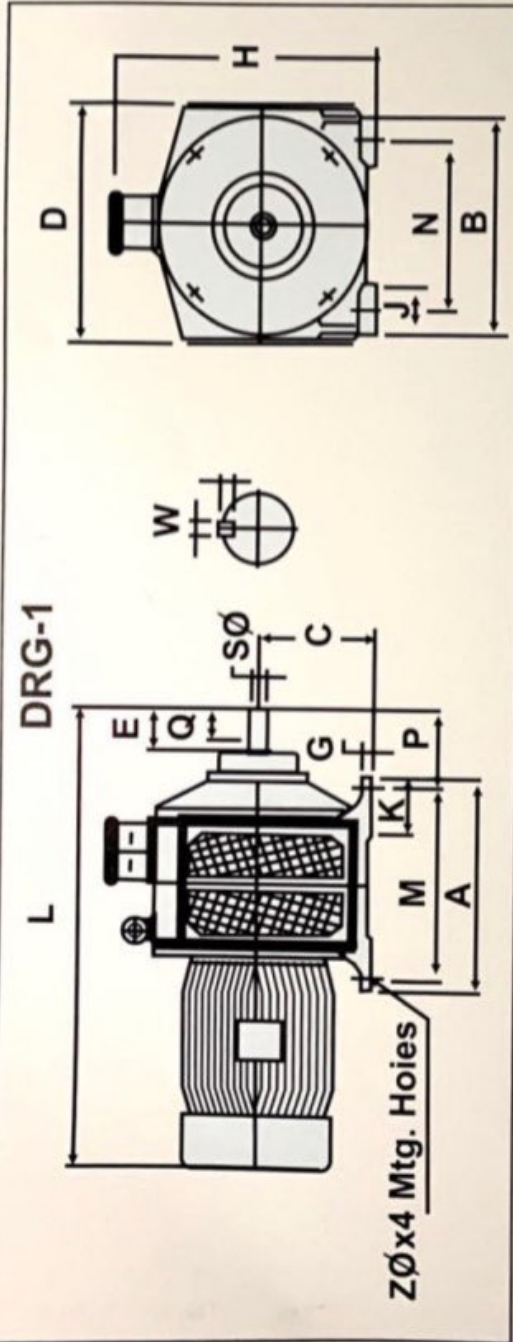
- Power : 0.37 to 22.0 kW
- Mounting : B5 flange mounted
- Frame size : 71 to 280
- Voltage : 415V± 10% or as required
- Frequency : 50Hz± 5% or as required
- Ambient : 45°C
- Altitude : upto 1000m above m.s.l.
- Enclosure : Totally enclosed (TE)
- Protection : IP55
- Insu. class : Class F insulation with temp. rise limited to class B.

**MECHANICAL DIMENSIONS**



Frame	D1	D2	D3	F	G	GA	L1	L2	E	P max	ØN	M PCD	ØS	Z No.	T	LA	X	L
71	17	14	M12	5	11	16	50	40	155	160	110	130	10	4	3.5	9	35	331
80	25	19	M16	6	15.5	21.5	50	55	170	200	130	165	12	4	3.5	10	45	368
90S	30	24	M16	8	20	27	50	55	170	200	130	165	12	4	3.5	10	45	380
90L	30	24	M16	8	20	27	50	55	170	200	130	165	12	4	3.5	10	45	405
100L	30	28	M24	8	24	31	50	55	170	250	180	215	15	4	4	11	45	432
112M	30	28	M24	8	24	31	50	55	170	250	180	215	15	4	4	11	45	446
132S	40	38	M30	10	33	41	75	75	215	300	230	265	15	4	4	12	65	515
132M	40	38	M30	10	33	41	75	75	215	300	230	265	15	4	5	12	65	553
160M	45	42	M30	12	37	45	75	75	215	350	250	300	19	4	5	13	65	614
160L	45	42	M30	12	37	45	75	75	215	350	250	300	19	4	5	13	65	658
180M	50	48	M30	14	42.5	51.5	100	120	285	350	250	300	19	4	5	13	110	727
180L	50	48	M30	14	42.5	51.5	100	120	285	350	250	300	19	4	5	13	110	765
200L	60	55	M30	16	49	59	100	120	285	400	300	350	19	4	5	15	110	846
225MX	65	60	M30	18	53	64	100	120	285	450	350	400	19	8	5	16	110	850
250MX	75	65	M36	18	58	69	100	120	285	550	450	500	24	8	5	18	110	920
280MX	85	75	M36	20	68	80	100	120	285	550	450	500	24	8	5	18	110	1025

Note : Due to Constant Improvement in Design & Specifications. The Product Supplied may vary Slightly From the Specifications of the Leaflet.



**VICTOR Co. DIMENSIONAL DETAILS-EDDY CURRENT DRIVES**

Nominal Rating HP AT 1500 Rpm	Model No.	Rated Torque Kgrm	A	B	C	D	G	H	J	L	M	N	P	ZØ	SØ	E	Q	W	Approx Wt. Kg.
1.0	V-151	0.5	265	235	124	240	16	300	50	510	220	185	80	12	19	40	25	6	65
2.0	V-204	1.00	300	270	135	280	20	345	55	580	260	215	80	12	24	50	35	8	90
3.0	V-304	1.45	360	320	170	320	20	380	70	655	300	240	90	15	28	60	45	8	128
5.0	V-504	2.45	370	310	170	340	20	405	70	700	300	240	90	15	28	60	48	8	160
7.5	V-704	3.60	400	370	205	380	25	450	80	750	340	290	115	20	38	80	65	10	238
10.0	V-104	4.90	450	390	205	418	25	475	80	850	380	310	120	20	38	80	70	10	286
15.0	V-154	7.13	485	420	235	440	30	540	100	925	420	320	130	19	42	90	75	12	365
20.0	V-204	9.70	605	535	280	550	40	540	120	1175	540	410	220	24	48	105	85	14	430
30.0	V-304	14.26	605	535	280	570	40	560	120	1200	540	410	220	24	48	110	90	14	555

Note : Due to Constant Improvement in Design & Specifications. The Product Supplied may vary Slightly From the Specifications of the Leaflet.



'Victor' Eddy Current Drives are totally enclosed, fan cooled (TEFC), flange type three phase squirrel cage induction motor, mounted on to an eddy current clutch having self-ventilated common frame design. , No physical contact between motor and clutch results in smooth response and longer equipment life. These drives operate on AC power supply and provides constant torque at variable speeds over a wide range.

'Victor' Eddy Current AC adjustable speed drives are most cost effective solutions to almost every industrial application as required in Plastic Machinery, Textile processing machines, Cement, Rubber, Conveyor drives, Wire drawing units, Paper & Printing machinery, Sugar Industry etc Which requires accurate, easily controllable, infinitely variable speeds from an AC power source Corrugating Machine:

### Salient features of :Victor Eddy current drives

- A.S.A. Integral design
- Modular design
- Drive-Brake combinations
- Air-cooled drives
- High speed drives
- Totally enclosed
- Eddy current brakes
- Matching electronics

### How it works

The main elements of 'Victor' Eddy current variable speed drive are an AC Motor, an eddy current clutch, a tacho generator and separate electronic controller. The input member is a steel drum which is driven at a constant speed by the prime mover motor, the output member consist of a low inertia pole assembly connected to the output shaft of the drive. The DC excitation of the field coil produces a magnetic field which links the output member and the input member through the air gap separating them thus there is no mechanical linkage between both the components as such there is no wear and tear.

The extent of torque transmission depends both on the magnetic field strength and the relative speeds between the drum and the pole, an increase in excitation can correspondingly reduce the slip required to transmit a desired level of torque thus providing an easy electrical means to control the drive speed. The tachogenerator produces a voltage signal in direct proportion to the speed of output: shaft, the signal is used by a thyristor controller to modulate the field coil current and thus automatically maintain the selected coupling output speed regardless of local changes within the specified torque and speed range.

### Electronic Controller

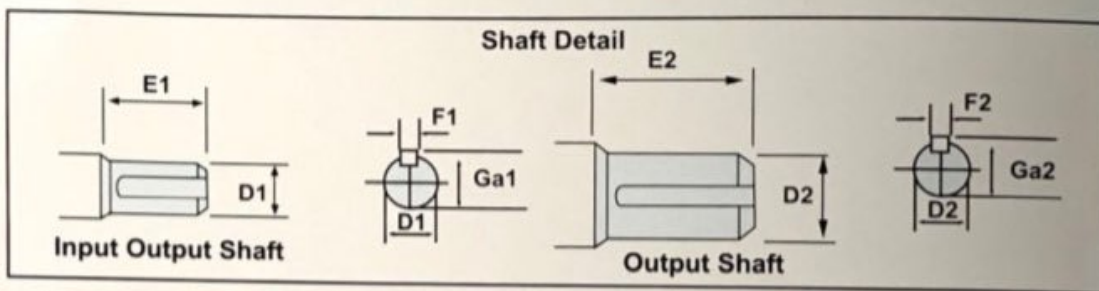
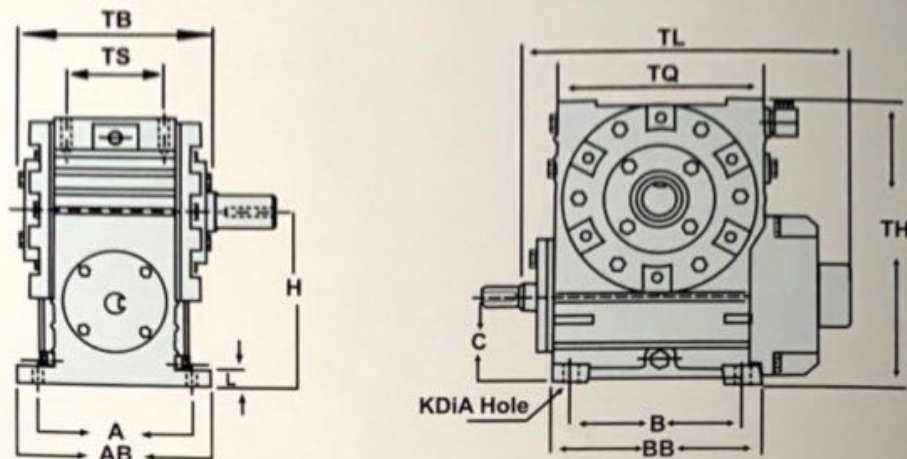
The solid state controller converts applied AC Power to DC for energizing the field coil of coupling. By controlling the field coil current the output speed of the drive is adjusted to the desired value. The standard controller is housed in a sheet metal cabinet with ON/OFF Switch, indicator lamp and speed setting Potentiometer.

Input supply :230 V AC 50 Hz

Note : Due to Constant Improvement in Design & Specifications. The Product Supplied may vary Slightly From the Specifications of the Leaflet.



## TYPE NS/H = HORIZONTAL Worm Gear Box

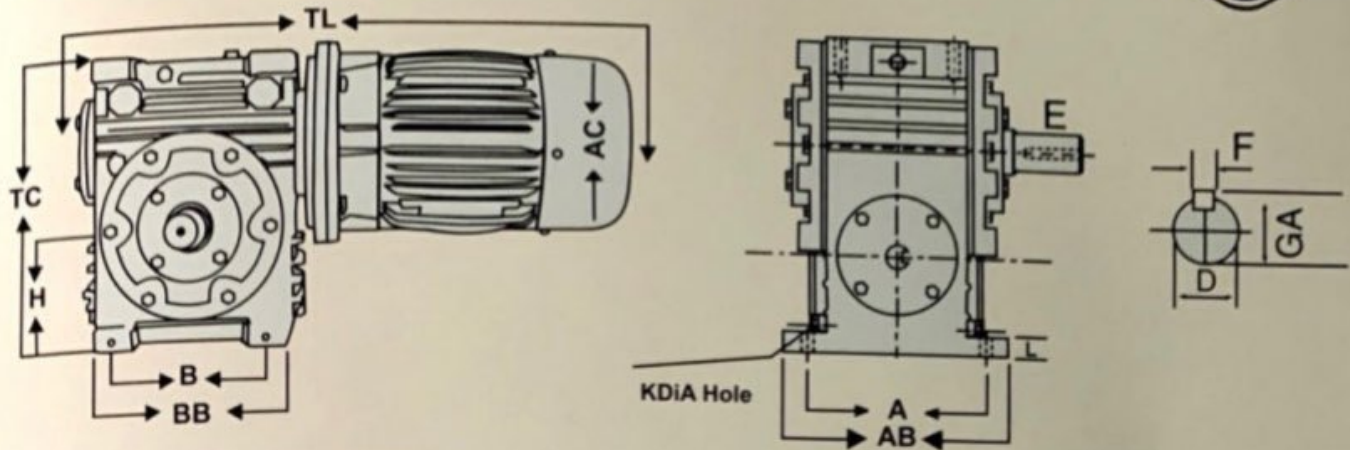


SIZE	A	B	C	H	AB	BB	L	TS	TB	TH	TQ	TL	KØ	Approx Wt.
1½"	80	75	$\frac{100}{32}$	$\frac{60}{75}$	120	100	15	110	156	135	130	180	10	7.5
2"	120	100	60	115	150	130	20	136	190	210	190	231	11	12.3
2½"	135	127	70	140	172	172	20	177	240	225	305	360	11	24.2
3"	155	155	90	170	195	195	22	200	260	265	350	410	12	33.4
4"	195	190	110	210	250	230	22	210	320	340	410	480	20	62.2
5"	230	220	130	250	300	280	30	260	390	400	440	560	20	120
6"	245	270	140	230	300	360	32	300	400	470	505	530	25	170
7"	260	310	150	327	377	380	32	330	420	512	340	580	32	210
8"	260	330	165	368	418	400	32	360	440	608	370	625	32	250

### Shaft Size

SIZE	Input Shaft D1	Output Shaft D2	Length E1	Length E2	Key F1	Key F2	Ga1	Ga2
1½"	16	19	45	45	5	6	18.5	21.5
2"	19	24	45	50	6	8	21.5	27
2½"	24	28	60	60	8	8	27	31
3"	28	32	60	60	8	10	31	35
4"	38	48	70	90	10	12	41	51.5
5"	38	55	85	110	10	12	41	59
6"	45	60	90	120	12	14	48	66
7"	55	70	105	125	12	16	61	76
8"	60	75	125	125	12	16	66	82

Note : Due to Constant Improvement in Design & Specifications. The Product Supplied may vary Slightly From the Specifications of the Leaflet.



KW	HP	SIZE	H	B	A	L	D	GA	BB	AB	AC	TL	K	E	F	TC
0.37	0.5	2"	85	100	120	20	24	27	130	150	130	410	10	50	8	190
0.75	1.0	2½"	98	135	135	20	28	31	165	170	160	490	12	60	8	240
1.1	1.5	2½"	98	135	135	20	28	31	165	170	160	490	12	60	8	240
1.5	2.0	2½"	98	135	135	20	28	31	165	170	172	520	12	60	8	240
2.20	3.0	3"	115	155	155	23	32	35	195	190	198	585	15	75	8	250
3.7	5.0	4"	145	200	185	25	48	52	255	230	219	630	20	110	10	270

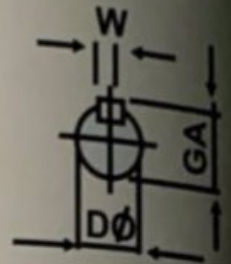
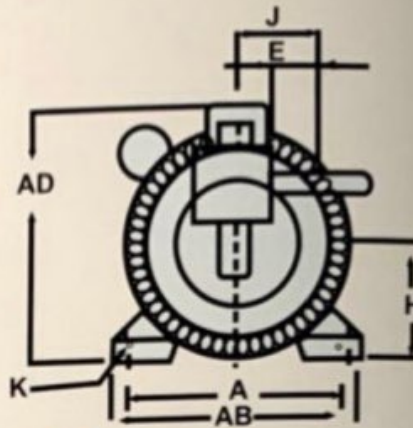
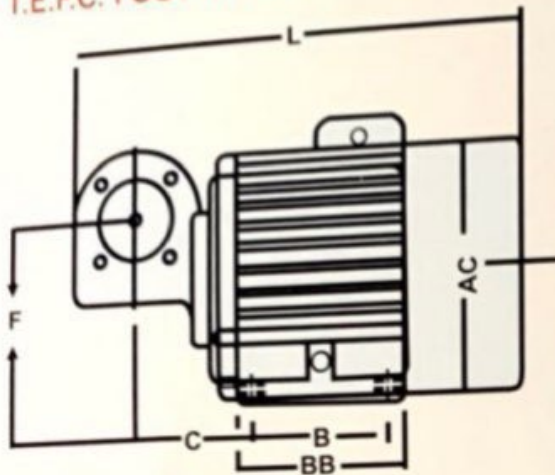
### Horse Power Rating Table

Gear Ratio	RPM Input	RPM Output	2" HP	2.5" HP	3" HP	4" HP	5" HP	6" HP	7" HP	8" HP
5:1	1440	288	2.0	3.0	7.50	15.0	20.00	35.00	50.00	60.00
	960	192	2.0	2.0	5.00	10.0	15.00	30.00	40.00	50.00
	750	150	1.5	1.5	4.00	7.5	12.50	20.00	30.00	40.00
10:1	1440	144	1.5	2.0	5.00	10.00	15.00	20.00	30.00	40.00
	960	96	1.0	1.5	4.00	7.50	12.50	15.00	25.00	30.00
	750	75	0.75	1.0	3.00	5.00	10.00	12.50	20.00	25.00
15:1	1440	96	1.5	2.0	4.00	7.50	10.00	20.00	25.00	30.00
	960	64	1.0	1.5	3.00	5.00	7.50	15.00	20.00	25.00
	750	50	0.75	1.0	2.00	3.00	7.50	10.00	15.00	20.00
20:1	1440	72	1.0	1.5	3.00	7.50	10.0	15.00	25.00	25.00
	960	50	0.75	1.0	2.00	5.00	7.5	10.00	15.00	20.00
	750	37.5	0.50	0.75	1.50	3.00	5.00	7.50	12.50	15.00
25:1	1440	57.6	1.0	1.5	3.00	7.50	10.00	12.50	20.00	25.00
	960	38.4	0.75	1.0	2.00	5.00	7.50	10.00	15.00	15.00
	750	30	0.50	0.75	1.50	3.00	5.00	7.50	12.50	12.50
30:1	1440	48	1.0	1.50	3.00	5.00	7.50	10.00	15.00	20.00
	960	32	0.50	1.0	2.00	3.00	5.00	7.50	12.50	15.00
	750	25	0.50	0.75	1.50	2.00	5.00	7.50	10.00	12.50
40:1	1440	36	0.50	1.0	2.00	5.00	7.50	10.00	15.00	20.00
	960	24	0.50	0.75	1.50	3.00	5.00	7.50	10.00	15.00
	750	19	0.25	0.50	1.00	2.00	3.00	5.00	7.50	10.00

Note : Due to Constant Improvement in Design & Specifications. The Product Supplied may vary Slightly From the Specifications of the Leaflet.



T.E.F.C. FOOT MOUNTED AC WORM GEARED MOTORS 220/230 VOLTS 50 Hz. 1 PHASE



Model	Frame	KW	HP	RPM	H	F	E	D	J	K	A	B	C	AB	BB	AC	AD	W	GA	L
63VS	63	0.06	1/12	30, 47, 60, 90, 120, 200	63	94	35	12	55	7	100	80	72	120	100	119	142	4	13.5	220
63VS	63	0.09	1/8	40, 80, 120, 240	63	94	35	12	55	7	100	80	72	120	100	119	142	4	13.5	220
71VS	71	0.18	1/4	32, 40, 65, 80, 120, 240	71	111	40	16	70	7	112	90	108	140	115	140	160	5	18	345
80VS-1	80	0.37	1/2	40, 80, 120, 160	80	120	45	16	70	10	125	100	97	160	132	160	166	6	18	325
80VS-2	80	0.37	1/2	30, 60, 90, 120	80	120	45	22	93	10	125	100	110	160	132	153	175	6	24.5	360
80VH	80	0.37	1/2	33, 66, 99, 132	80	126	60	22	110	10	125	100	138	160	132	162	225	8	31	422
90VH	90	0.75	1	33, 66, 99, 132	90	150	60	22	110	10	140	125	153	175	157	180	232	8	31	450

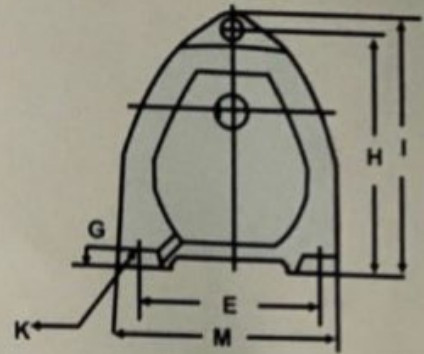
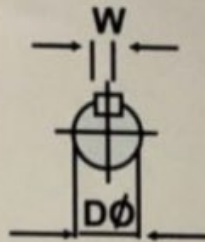
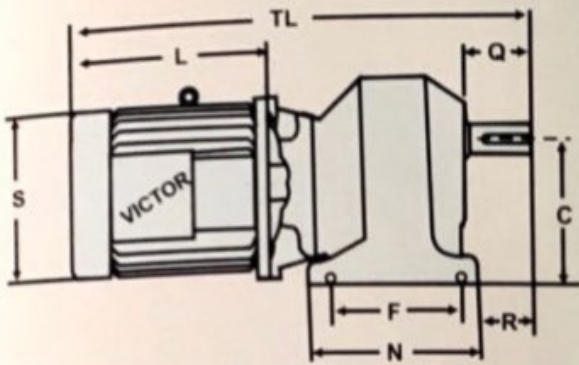
T.E.F.C. FOOT MOUNTED AC WORM GEARED MOTORS 415/440 VOLTS 50 Hz. 3 PHASE

Model	Frame	KW	HP	RPM	H	F	E	D	J	K	A	B	C	AB	BB	AC	AD	W	GA	L
63VS	63	0.09	1/8	25, 50, 60, 100, 120, 200	63	94	35	12	55	7	100	80	72	120	100	119	77	4	13.5	220
63VS-1	63	0.09	1/8	32, 40, 65, 80, 130, 260	63	94	35	12	55	7	100	80	72	120	100	119	77	4	13.5	220
71VS-1	71	0.37	1/2	40, 80, 120, 160, 35, 70, 140, 280	71	111	40	16	86	7	112	90	108	140	115	140	114	5	18	325
71VS-2	71	0.37	1/2	30, 60, 90, 120	71	111	40	16	86	7	112	90	123	140	115	140	114	5	18	340
80VS-2	80	0.75	1	30, 60, 90, 120	80	120	45	22	93	10	125	100	110	160	132	153	125	6	24.5	360
80VS-2	80	0.37	1	20, 16	80	120	45	22	93	10	125	100	110	160	132	153	125	6	24.5	360
80VH	80	0.75	1	33, 66, 99, 132	80	120	60	22	110	10	125	100	138	160	132	153		8	31	422
90VH	90	1.50	2	33, 66, 99, 132	90	150	60	22	110	10	140	125	153	175	157	180		8	31	450

Note : Due to Constant Improvement in Design & Specifications. The Product Supplied may vary Slightly From the Specifications of the Leaflet.



## Foot Mounted Helical Gear Motor Dimension Table



HP	RPM	TL	C	E	F	G	H	I	M	N	R	K	Q	D	W	S	L
0.5	288, 144, 96, 72	361	90	130	65	12	137	-	155	90	54	12	36	18	6	140	203
	60, 48	382	105	130	75	12	165	-	155	105	54	12	36	22	6	140	203
	32, 28, 24, 19	390	105	130	75	12	165	-	155	105	54	12	36	22	6	140	203
1HP	288, 144, 96, 72	417	105	130	75	12	165	-	155	105	54	12	36	22	6	156	230
	60, 48	425	120	140	90	14	185	-	170	120	54	12	36	24	8	146	230
1HP	32, 28, 24, 19	439	120	140	90	14	185	-	170	120	54	12	36	24	8	145	230
2HP	288, 144, 96, 72	477	120	140	90	14	185	215	170	120	54	12	36	24	8	176	268
	60, 48	514	135	170	125	17	215	246	210	155	78	12	58	32	10	176	268
	32, 28, 24, 19	528	135	170	125	17	215	246	210	155	78	12	58	32	10	176	268
3HP	288, 146, 96, 72	568	150	190	140	22	237	274	245	180	83	15	58	38	10	193	300
	57, 48	603	150	190	160	25	283	320	280	200	107	19	82	42	12	193	300
	32, 28, 24	624	150	190	160	25	283	320	280	200	107	19	82	42	12	193	300
5HP	288, 146, 96, 72	634	180	220	160	25	283	320	280	200	107	19	82	42	12	218	325
	57, 48	643	200	270	195	32	315	362	330	235	107	19	82	48	14	218	325
	32, 28, 24	669	200	270	195	32	315	362	330	235	107	19	82	48	14	218	325
7.5HP	288, 146, 96	696	180	220	160	25	283	320	280	200	107	19	82	42	12	260	362
	72	708	200	270	195	32	315	362	330	235	107	19	82	48	14	260	362
	57, 48	730	225	300	215	35	345	393	360	265	112	24	82	56	16	260	362
	32, 28, 24	754	225	300	215	35	345	393	360	265	112	24	82	56	16	260	362
10HP	288, 146, 96	754	200	270	195	32	315	362	330	235	107	19	82	48	14	260	400
	72, 57, 48	802	250	340	240	40	385	442	410	300	140	24	105	63	18	260	400
	32, 28, 24	836	250	340	240	40	385	442	410	300	140	24	105	63	18	260	400

Note : Due to Constant Improvement in Design & Specifications. The Product Supplied may vary Slightly From the Specifications of the Leaflet.

Always Ahead...



VEM-01



VEM-02



VEM-03



VEM-04



VEM-05



VEM-06



VEM-07



VEM-08



VEM-09



VEM-10



VEM-11



VEM-12



VEM-13

Manufactured By :  
**Victor Electrical & Mechanical Co. (Regd.)**  
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Phone : 011-47528637, 9312265231  
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