

PERMANENT MAGNET D.C. MOTORS (INDUSTRIAL GRADE - SCR DUTY)



PM1

ROTOMAG offers Permanent Magnet D.C. motors specially designed for Industrial Applications requiring continuous operation. These motors have TEFC construction with IP- 44/IP-55 protection for use in humid environment and ambients up to 45°. They can be operated with SCR and PWM drives.

These PMDC motors are more Compact, Efficient and have higher starting torque compared to Wound field motors. High Coercively. PATENTED magnets are used to prevent demagnetization even in conditions, which involve frequent start-stops.

Brushes are externally replaceable with a vent provided for cleaning the commutator to improve the maintenance effectiveness.

**M30, M3, M7
FOOT MOUNTING**



**M30, M3, M7
B5 FLANGE MOUNTING
(Foot Optional)**



**V1, V2, V3
FOOT MOUNTING**



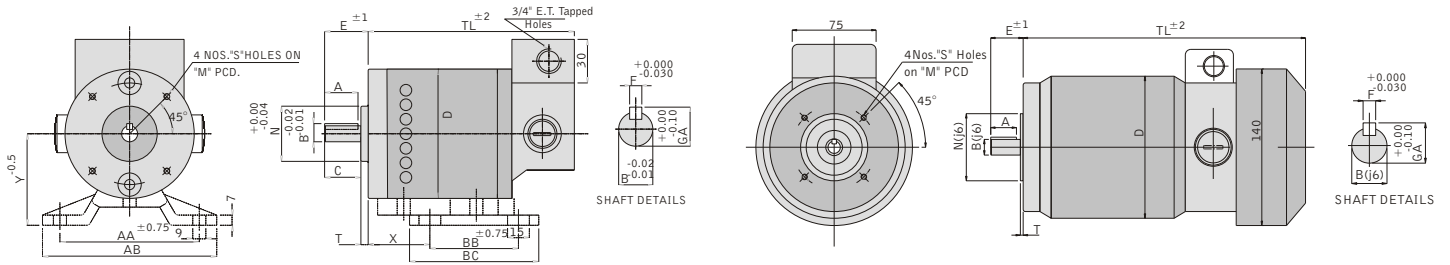
**V1, V2, V3
B5 FLANGE MOUNTING
(Foot Optional)**



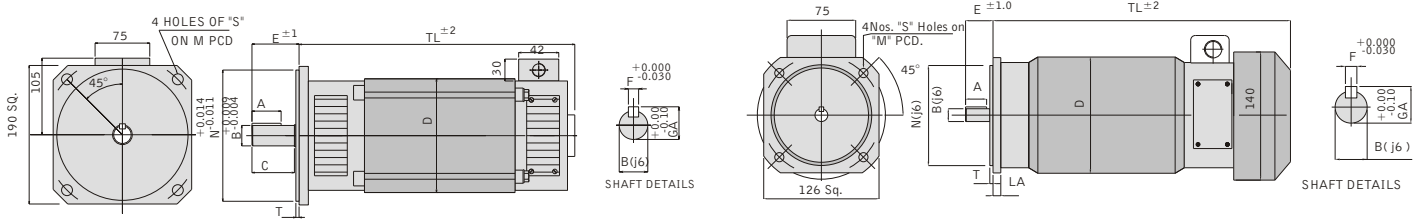
SPECIFICATIONS

HP	Watts	Frame Size		IEC Frame		Volts	Amps	Torque (Kg-cm)	Type	Protection	Ins. Class	Weight (Kgs.)
		FOOT Mounting	Flg./Face Mounting	B5	B14							
0.10	75	S2N-T	S2N-F	-	-	180	0.5	5	SPDP	IP-21	B	5
0.25	180	M30-T	M30-L	M30-71	M30-71	180	1.3	12	TEFC	IP-44	B	9
0.5	370	M3-T	M3-L	M3-71	M3-71	180	2.6	24	TEFC	IP-44	B	11
1.0	750	M7-T	M7-L	M7-80	-	180	5.2	48	TEFC	IP-44	B	14
2.0	1500	V2-T	V2-L	-	-	180	11.0	96	SPDP	IP-21	F	23
3.0	2250	V3-T	V3-L	V3-100	-	180	16.7	143	SPDP	IP-21	F	30
3000 RPM MOTORS												
0.16	120	S2N-T	S2N-F	-	-	180	0.9	3.5	SPDP	IP-21	B	5
0.25	180	M30-T	M30-L	M30-71	M30-71	180	1.3	6	TEFC	IP-44	B	9
0.5	370	M30-T	M30-L	M30-71	M30-71	180	2.6	12	TEFC	IP-44	B	9
1.0	750	M5-T	M5-L	M5-71	-	180	5.2	24	TEFC	IP-44	B	12
1.5	1125	M7-T	M7-L	M7-80	-	180	8.5	36	TEFC	IP-44	B	14
2.0	1500	V1-T	V1-L	-	-	180	11.0	48	SPDP	IP-21	F	18
3.0	2250	V2-T	V2-L	-	-	180	16.7	72	SPDP	IP-21	F	23

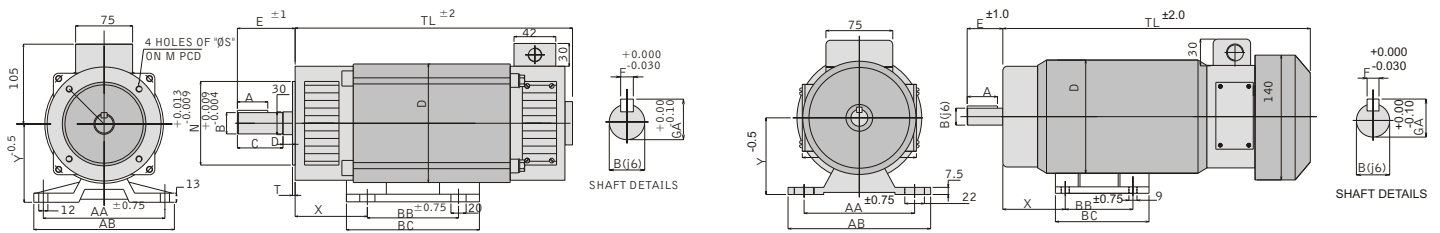
Face Mounted PMDC Motors (IEC B14 Frame)



Flange Mounted PMDC Motors (IEC B5 Frame)



Foot Mounted PMDC Motors



DIMENSIONS

Frame Size	A	ØB	C	D	E	F	GA	T	LA	ØM	S	AA	AB	BB	BC	ØD	X	Y	TL	
S2N-F/S2N-T	23	11	25	-	30	4	12.5	5	-	38	72.5	M4	96	120	61	89	92	42.5	64.5	174
M30-T/M30-L	34	19	-	-	40	6	21.5	3.5	8.5	110	130	10	124	160	76	105	127	60	86	237
M30-71B5	23	14	-	-	30	5	16.0	3.5	8.5	110	130	10	-	-	-	-	127	-	-	237
M30-71B14	23	14	-	-	30	5	16.0	2.5	-	70	85	M6	-	-	-	-	127	-	-	213
M3-T / M3-L	34	19	-	-	40	6	21.5	3.5	8.5	110	130	-	124	160	76	105	127	70	86	257
M3-71B5	23	14	-	-	30	5	16.0	3.5	8.5	110	130	10	-	-	-	-	127	-	-	257
M3-71B14	23	14	-	-	30	5	16.0	2.5	-	70	85	M6	-	-	-	-	127	-	-	233
M5-T / M5-L	34	19	-	-	40	6	21.5	3.5	8.5	110	130	-	124	160	76	105	127	70	86	297
M7-T / M7-L	34	19	-	-	40	6	21.5	3.5	8.5	110	130	10	124	160	76	105	127	70	86	345
M7-80B5	34	19	-	-	40	6	21.5	3.5	12	130	165	12	-	-	-	-	127	-	-	345
V1-T	34	19	41	3.5	48	6	21.5	3.5	-	110	130	M8	160	185	140	175	156	96.5	100	298
V1-L	34	19	37	-	40	6	21.5	4.0	12	180	215	15	-	-	-	-	156	-	-	310
V2-T	40	24	50	12.5	66	8	27	3.5	-	110	130	M8	160	185	140	175	156	96.5	100	373
V2-L	40	24	50	-	54	8	27	4.0	12	180	215	15	-	-	-	-	156	-	-	385
V3-T	40	28	60	12.5	76	8	31	3.5	-	110	130	M8	160	185	140	175	156	96.5	100	448
V3-100B5	40	28	60	-	64	8	31	4.0	12	180	215	15	-	-	-	-	156	-	-	460

Choose between Foot & Face Mounting. NEMA sizes also available.

While ordering please specify H.P., Frame size, Voltage, RPM, Duty Cycle, Type of mounting.
(Designs being continuously improved, please re-confirm specifications & dimensions prior to ordering)

All ROTOMAG motors have Ball Bearings with high temperature grease, Trickle/Vacuum impregnation, Silver Bearing copper commutators, class B/F/H insulation, Dynamically balanced Rotors, Hot staked / Brazed / TIG Welded commutator joints, Over sized Brushes and Superior Aesthetics.

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