

### Mechanical Specifications

Type	A	B	C	D	E	F	G	H	I	J	K	L	M
BM48-0.1H													
BM48-0.2H	8	24	22	2	42	48	3.4	3	14	9.3	M3x6 DEEP	74	34
BM48-0.3H										9.2		88	
BM70-0.4H												102	
BM70-0.7H	14	30	50	3	60	70	4.5	5	25	16.1	M5x10 DEEP	107	43
BM70-1.3H										16		121	
BM90-2.5H	19	38	70	3	80	90	6	6	25	21.6	M5x10 DEEP	135	53
BM130-5.0H	22	55	110	3	120	130	9	8	45	21.5		154.5	-
BM130-10.0H	22	55	110	3	120	130	9	8	45	25.1		172.5	-
										25		212.5	-

\*All Dimensions in mm

### Standard BLDC Motors Data

		BM48			BM70				BM90	BM130	
		0.1H	0.2H	0.3H	0.4H	0.7H	1.27H	1.3H	2.5H	4.70H	10.0H
Terminal Voltage	Volts (rms)	12.5	16.0	20.0	17.0	24.0	35.0	25.0	125.0	160.0	160.0
Peak Torque	Nm	0.27	0.54	0.87	0.96	1.92	3.81	3.81	7.20	14.10	28.65
Rated Torque	Nm	0.09	0.18	0.29	0.32	0.64	1.27	1.27	2.40	4.70	9.55
Cont. stall torque	Nm	0.1	0.2	0.3	0.4	0.7	1.3	1.3	2.5	5.0	10.0
Rated Speed	RPM	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Rated Current (Trapezoidal)	Amp	2.04	3.36	3.44	4.78	6.82	9.48	12.31	4.84	7.01	14.25
Rated Power	Watt	30	60	90	100	200	400	400	750	1500	3000
Torque Constant	Nm/Amp	0.044	0.054	0.084	0.067	0.094	0.134	0.103	0.496	0.670	0.670
Back EMF	Volts/KPM	3.3	4.0	6.3	5.0	7.0	10.0	7.7	37.0	50.0	50.0
Terminal Resistance	Ohm	1.50	0.75	1.00	0.45	0.25	0.72	0.25	2.13	1.20	0.65
Terminal Inductance	mH	1.26	0.97	1.31	0.36	0.52	1.98	0.69	9.46	13.20	11.08
Rotor Inertia	Kg-m <sup>2</sup>	1.24E-06	2.25E-06	3.23E-06	1.37E-05	2.23E-05	3.08E-05	3.08E-05	1.21E-04	2.46E-04	3.05E-04

- Motors are available with or without Hall Feedback
- Ask us if you have any requirements that are different from our standard motors

**Jayashree Electrodevices Pvt. Ltd.**

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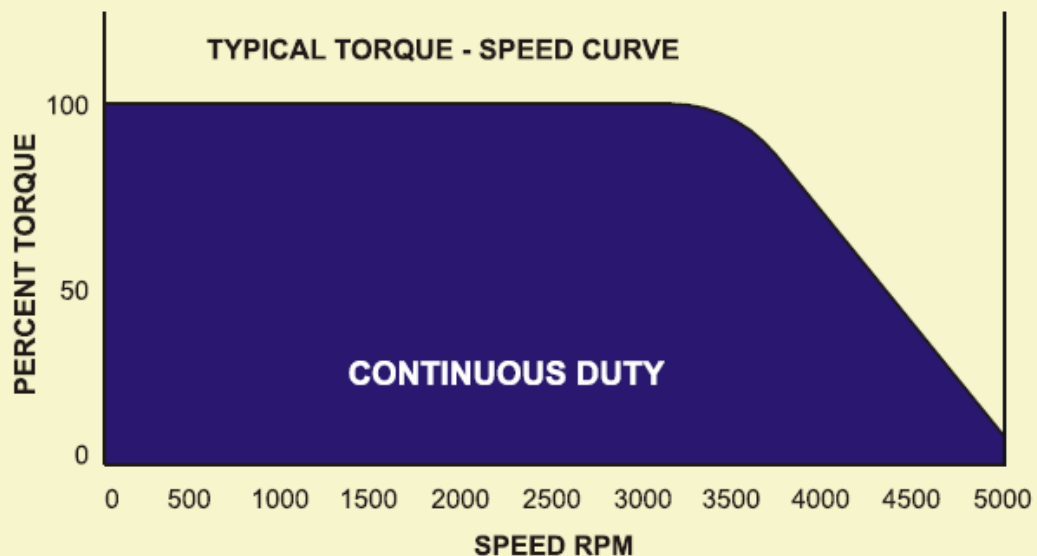
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**30 WATTS – 3000 WATTS @ 3000 RPM**

		BM48			BM70				BM90	BM130	
		0.1H	0.2H	0.3H	0.4H	0.7H	1.27H	1.3H	2.5H	4.70H	10.0H
Electrical Time Constant	mSec	0.840	1.292	1.310	0.809	2.068	2.747	2.715	4.439	11.000	17.046
Mechanical Time Constant	mSec	0.951	0.587	0.453	1.373	0.634	1.235	0.732	1.048	0.658	0.442
Motor Weight	gram	405	533	646	921	1188	1457	1457	2850	5600	9500
Number of Poles	-	8	8	8	8	8	8	8	8	8	8
Frame Size	mm	42	42	42	60	60	60	60	80	120	120
Mounting PCD	mm	48	48	48	70	70	70	70	90	130	130



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