



Mechanical Specifications

Type	A	B	C	D	E	F	G	H	I	J	K	L	M
BM70-0.4H												107	
BM70-0.7H	14	30	50	3	60	70	4.5	5	25	16.1	M5x10 DEEP	121	43
BM70-1.3H										16		135	

*All Dimensions in mm

BLDC Low Power Motors Data

		BM70					
		0.22ELC	0.44ELC	0.70ELC	0.22HLC	0.44HLC	0.70HLC
Terminal Voltage (AC rms)	Volts	14.0	19.0	22.5	14.0	19.0	22.5
Rated Torque	Nm	0.22	0.44	0.70	0.22	0.44	0.70
Peak Torque	Nm	0.66	1.32	2.10	0.66	1.32	2.10
Cont. stall torque	Nm	0.25	0.45	0.70	0.25	0.45	0.70
Rated Speed	RPM	3000	3000	3000	3000	3000	3000
Rated Current (rms)	Amp	4.43	6.65	7.07			
Rated Current (trapezoidal)	Amp				5.47	8.21	8.72
Rated Power	Watt	70	140	220	70	140	220
Torque Constant	Nm/Amp	0.050	0.066	0.099	0.040	0.054	0.080
Back EMF (AC rms)	Volts/KRPM	3.0	4.0	6.0	3.0	4.0	6.0
Terminal Resistance (L-L)	Ohm	0.55	0.59	0.72	0.55	0.59	0.72
Terminal Inductance	mH	0.97	1.16	1.68	0.97	1.16	1.68
Rotor Inertia	kg-m ²	1.37E-05	2.23E-05	3.08E-05	1.37E-05	2.23E-05	3.08E-05
Motor Constant	Nm/sqrt(W)	0.055	0.070	0.096	0.044	0.057	0.077
Motor Weight	gram	921	1188	1457	921	1188	1457
Number of Poles		8	8	8	8	8	8
Electrical Time Constant	mSec	1.779	1.966	2.346	1.779	1.966	2.346
Mechanical Time Constant	mSec	3.044	3.006	2.247	4.637	4.580	3.423

- Motors are available with or without Hall Feedback or with Encoder Feedback

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