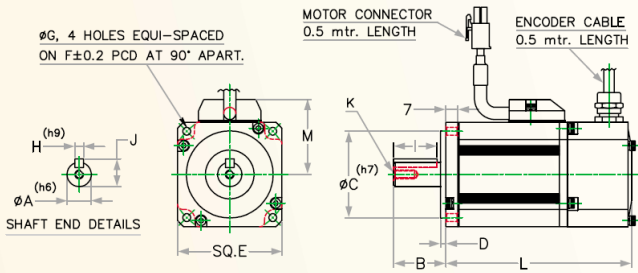


JAYASHREE ELECTRODEVICES – BRUSHLESS AC SERVO MOTORS



Mechanical Specifications

Type	A	B	C	D	E	F	G	H	I	J	K	L	M
BS48-0.1E	8	24	22	2	42	48	3.4	3	14	9.3	M3 x	74	34
BS48-0.2E										9.2	6	88	
BS48-0.3E											DEEP	102	
BS70-0.4E	14	30	50	3	60	70	4.5	5	25	16.1	M5 x	107	43
BS70-0.7E										16.0	10	121	
BS70-1.3E											DEEP	135	

Standard Low Voltage AC Servo Motors Data

Low Voltage Drive		BM48			BM70			
		0.1E	0.2E	0.3E	0.4E	0.7E	1.3E	1.3E
Terminal Voltage	Volts (rms)	12.5	16.0	20.0	17.0	24.0	35.0	25.0
Peak Torque	Nm	0.27	0.54	0.87	0.96	1.92	3.81	3.81
Rated Torque	Nm	0.09	0.18	0.29	0.32	0.64	1.27	1.27
Cont. stall torque	Nm	0.1	0.2	0.3	0.4	0.7	1.3	1.3
Rated Speed	RPM	3000	3000	3000	3000	3000	3000	3000
Rated Current	Amp (rms)	1.65	2.72	2.78	3.87	6.23	7.68	9.97
Rated Power	Watt	30	60	90	100	200	400	400
Torque Constant	Nm/Amp	0.055	0.066	0.104	0.083	0.103	0.165	0.127
Back EMF	Volts(rms)/K RPM	3.3	4.0	6.3	5.0	7.0	10.0	7.7
Terminal Resistance	Ohm	1.50	0.75	1.00	0.45	0.33	0.72	0.25
Terminal Inductance	mH	1.26	0.97	1.31	0.80	0.52	1.98	0.69
Rotor Inertia	Kg-m ²	1.24E-06	2.25E-06	3.23E-06	1.37E-05	2.25E-05	3.08E-05	3.08E-05
Motor Weight	gram	405	533	646	921	1188	1457	1457
Number of Poles		8	8	8	8	8	8	8
Electrical Time Constant	mSec	0.84	1.29	1.31	1.78	1.57	2.75	2.72
Mechanical Time Constant	mSec	0.62	0.39	0.30	0.90	0.70	0.81	0.48

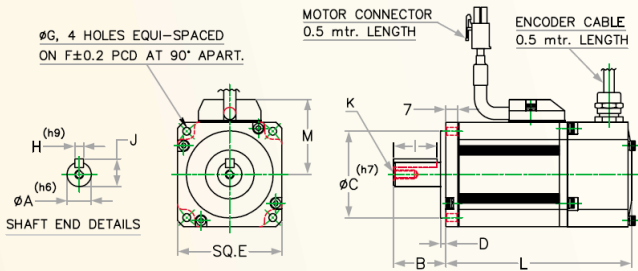
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JAYASHREE ELECTRODEVICES – BRUSHLESS AC SERVO MOTORS



Mechanical Specifications

Type	A	B	C	D	E	F	G	H	I	J	K	L	M
BS48-0.1E	8	24	22	2	42	48	3.4	3	14	9.3	M3x6 DEEP	74	34
BS48-0.2E										8.8		88	
BS48-0.3E												102	
BS70-0.4E	14	30	50	3	60	70	4.5	5	25	16.1	M5x10 DEEP	107	43
BS70-0.7E										16		121	
BS70-1.3E										135			
BS90-2.5E	19	38	70	3	80	90	6	6	25	21.6	M5x10 DEEP	154.5	53
										21.5			
BS130-5.0E	22	55	110	3	120	130	9	8	45	25.1	-	172.5	-
BS130-10.0E	22	55	110	3	120	130	9	8	45	25.1	-	212.5	-

Standard 230V AC Servo Motors Data

230V AC Drive		BM70	BM90	BM130	
		1.3E	2.5E	5.0E	10.0E
Terminal Voltage	Volts(rms)	110.0	125.0	160.0	160.0
Peak Torque	Nm	3.81	7.20	14.10	28.65
Rated Torque	Nm	1.27	2.40	4.70	9.55
Cont. stall torque	Nm	1.3	2.5	5.0	10.0
Rated Speed	RPM	3000	3000	3000	3000
Rated Current	Amp(rms)	2.56	3.92	5.68	12.83
Rated Power	Watt	400	750	1500	3000
Torque Constant	Nm/Amp	0.496	0.612	0.827	0.744
Back EMF	Volts(rms)/KRPM	30.0	37.0	50.0	45.0
Terminal Resistance	Ohm	3.60	2.13	1.03	0.78
Terminal Inductance	mH	9.50	9.44	10.00	8.01
Rotor Inertia	Kg-m ²	3.08E-05	1.21E-04	2.46E-04	3.05E-04
Motor Weight	gram	1495	2747	3400	6450
Number of Poles		8	8	8	8
Electrical Time Constant	mSec	2.64	4.43	9.71	10.27
Mechanical Time Constant	mSec	0.45	0.69	0.37	0.43

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