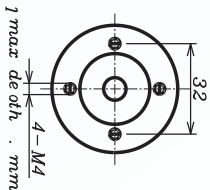
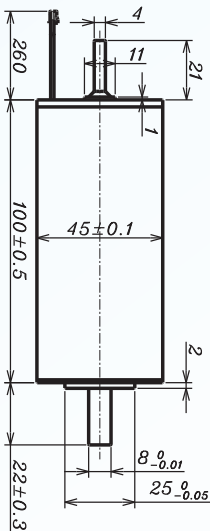
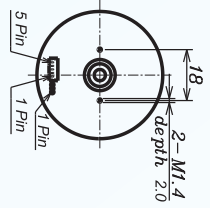


DC Brushless Motor AM-BL45100A/B-4P Series

ASSUN MOTOR

2015 edition. Specifications are subject to change without notice.



BRUSHLESS MOTOR BALL BEARING

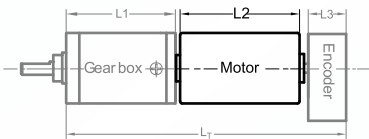
MOTOR MODEL		2407	2405	3608	3606	4808	4806
NOMINAL VOLTAGE	V	24	24	36	36	48	48
NO LOAD SPEED ±12%	rpm	6737	5053	8288	5684	7579	6063
NO LOAD CURRENT Max 150%	mA	571	371	556	289	367	250
Recommend Limit for Continuous Operating	mN.m	354.79	418.63	292.19	381.69	280.20	359.10
	rpm	6397	4709	7938	5382	7350	5791
	A	11.00	9.6	7.6	6.6	5.00	5.00
	W	237.68	206.43	242.88	215.12	215.67	217.79
STARTING CURRENT	mA	218182	141176	180000	124138	165517	111628
STALL TORQUE	mN.m	7423	6404	7466	7508	10010	8439
MAXIMUM POWER OUTPUT	W	1390.1	847.1	1620.0	1117.2	1986.2	1339.5
MAXIMUM EFFICIENCY	%	90	90	89	91	91	91
TERMINAL RESISTANCE PHASE TO PHASE ±12%	Ω	0.11	0.17	0.2	0.29	0.29	0.43
MECHANICAL TIME CONSTANT	ms	2.16	1.88	2.64	1.8	1.8	1.71
MOMENT OF INERTIA	gcm ²	227.14	227.14	227.14	227.14	227.14	227.14
TORQUE CONSTANT	mN.m/A	34.02	45.36	41.48	60.48	60.48	75.6
SPEED CONSTANT	rpm/V	281	211	230	158	158	126
SPEED/TORQUE GRADIENT	rpm/mN.m	0.9	0.8	1.1	0.8	0.8	0.7
WEIGHT	g	757	757	757	757	757	757

ADDITIONAL INFORMATION

MAXIMUM ROLLING BEARING LOADS

AXIAL (DYNAMIX)	8 N	RADIAL (5MM FROM HEAD FACE)	180 N
PRESS-FIT FORCE	170 N	L: MAX ALLOWABLE SCREW DEPTH INTO FLANGE	4.5 mm
MAXIMUM RADIAL PLAY	≤0.02mm	AXIAL PLAY:	0 (<6.0N)
MAXIMUM WINDING TEMPERATURE	155°C	AMBIENT TEMPERATURE RANGE:	-30 to 65°C

AM-BL45100A/B COMBINATION SCHEME



Recommend Gearbox:
Planetary Gearbox:
AM-45P

Recommend Encoder:
Encoder S: AM-EN22-S***
2~3 Channels
Encoder T: AM-EN36-T***
2~3 Channels

For more gearbox specs, see Assun Motor website.

CONNECTION (AWG22#)	TOTAL LENGTH (GEARBOX AND MOTOR): L _T =L ₁ +L ₂ + L ₃			
CABLE 1: WINDING A	L1:45P	L2:BL45	L3:EN22-S	L3:EN36-T
CABLE 2: WINDING B	38.6	100.0	10.7	10.0
CABLE 3: WINDING C	49.4			12.0
PLUG DEFINATION	60.2			
MOLEX: 51021 - 0500	71.0			
PLUG 1: HALL V _{CC}				
PLUG 2: HALL GND				
PLUG 3: HALL A				
PLUG 4: HALL B				
PLUG 5: HALL C				

REMARKS

Clients can choose gearbox and encoder to match with this motor. Some combinations are listed here for reference.

Motor Data Tested at 25°. Motor Operation exceeds continuous limits of operating range will compromise the life of the device.