

MB057GA

BLDC MOTOR INTERNALLY INSTALLED DRIVER

● General information

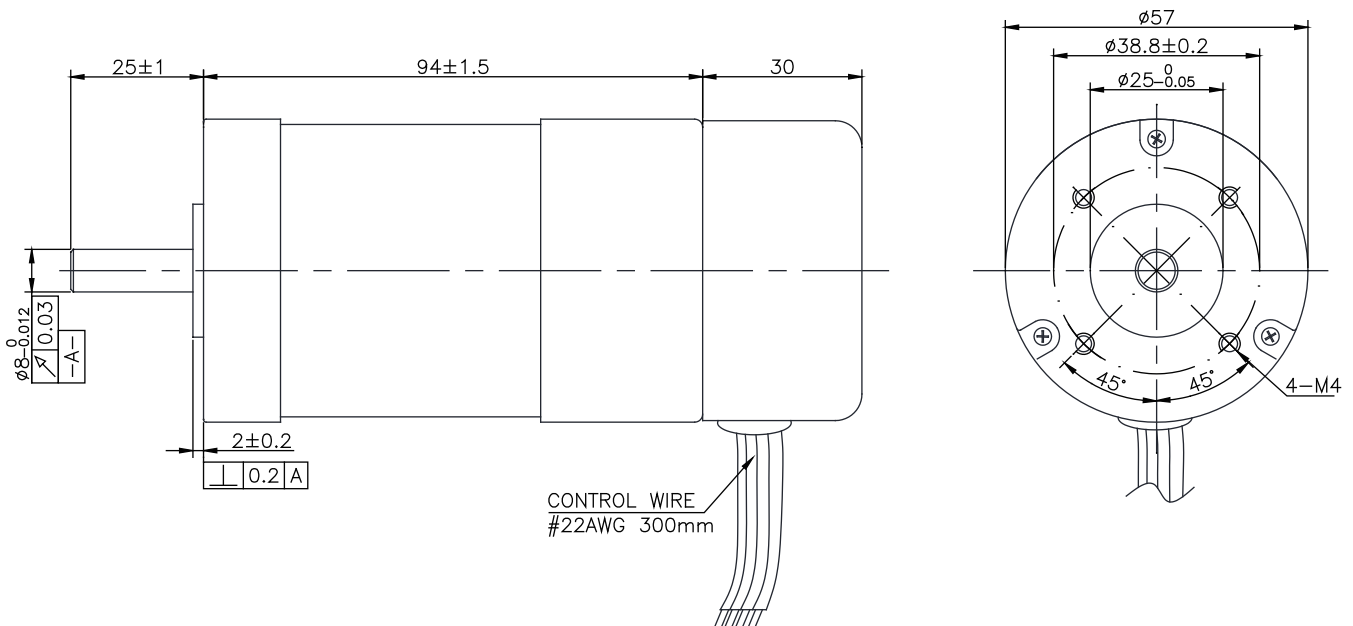
- ▶ 4 poles with three phases.
- ▶ Hall effect commutation (120 degree), skew rotor for low cogging.
- ▶ Insulation class B, higher insulation class on request.
- ▶ Bonded Neo Magnet.
- ▶ Integrated driver available.



● Specification

	TOL.	UNITS	VALUE
Rated Voltage (Vs)	NOM.	Vdc	24
Rated Continuous Torque	NOM.	Nm	0.3
Rated Speed at Cont. Torque	±10%	RPM	3000
Rated Continuous Stall Current	±10%	A	5.2
Rated Continuous Output POWER	±10%	W	95
Rated Peak Torque	MAX.	Nm	0.9
Rated Peak Current	MAX.	A	15.6
Voltage Constant (KE)	±10%	V/K R.P.M.	6.1
Terminal Resistance (Rmt)	±20%	Ω	0.36
Inductance (L)	±10%	mH	0.95
WEIGHT	NOM.	Kg	1.2

● Mechanical



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▶ Driver electronic performance

Supply power	DC20V-28V
Rated current	Continuous current: 8A, peak current: 13A
Rated torque	Based on motor
Speed range	90RPM~rated speed
Insulation adjustable resistance	100MΩ Min (at normal temperature and pressure)
Insulating strength	500VAC, 1 minute

▶ Illustration for function of every interface

Terminal mark		Terminal Definition
Power site	DC+, DC-	Supply DC power
	U, V, W	Respectively matching the motor phase R, S, T
HALL site	H+, H-, Ha, Hb, Hc	Respectively matching the motor sensor H+, H-, Ha, Hb, Hc
Control site	R/S	Run/Stop control signal, connecting with GND is run, not connected is stop
	BRA	Brake signal
	F/R	Rotation control signal. CCW when connected with GND, CW don't connected with GND
	FG	Speed pulse signal output interface
	AIN	External adjustable speed with input analogy voltage, Voltage 0-5V(or PWM)

▶ The operating environment and parameter

Cooling Model		Natural cooling (or forced air cooling or cooling ribs)
Operating environment	Environment	Avoid dust, grease and corrosive gas
	Temperature	-10℃ ~ +60℃
	Humidity	<80%RH, No condensation and no frost
	Vibration	5.9m/52 Max
Storage Temperature		-40℃ ~ +65℃
Volume		53 x 53 x 15 (mm)
Weight		15g