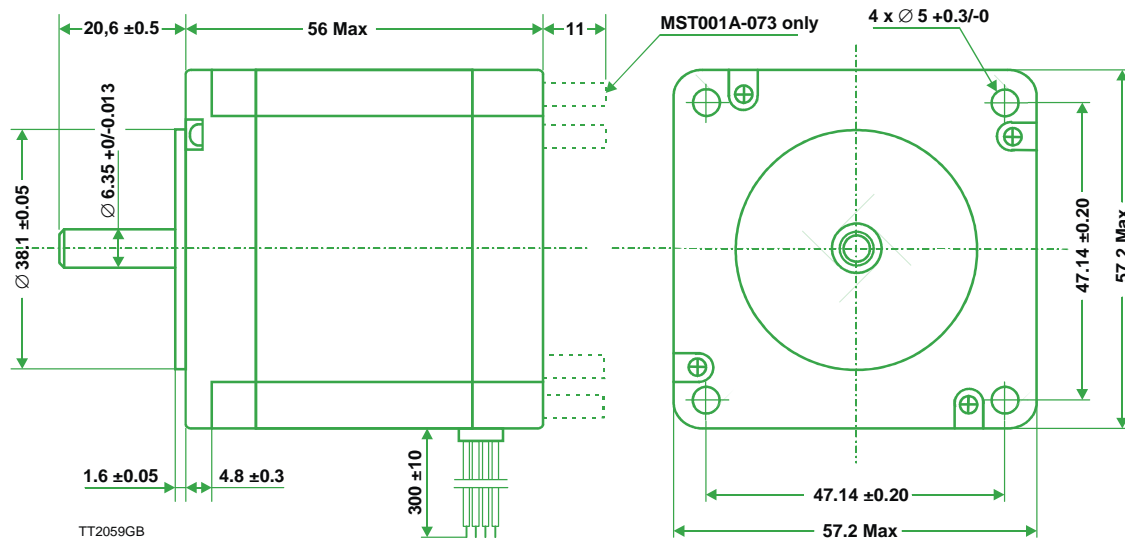


High Torque Step Motor MST001A/MST001A-73

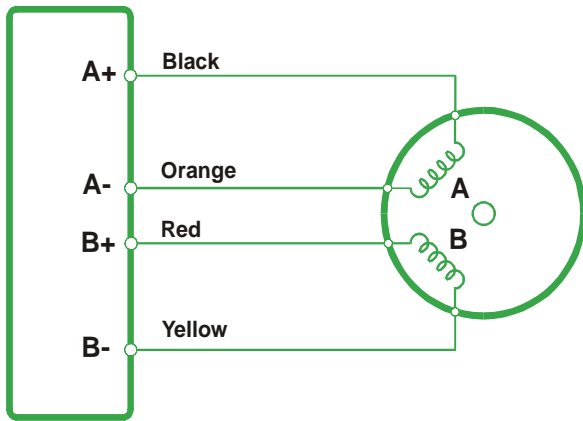


General specifications		Electrical specifications	
Step angle	1.8 deg.	Driver	Bi-polar
Number of phases	2	Rated voltage	2.8V
Steps per revolution	200	Current	2.5A
Step angle accuracy	$\pm 5\%$	Inductance per phase	5.6mH $\pm 20\%$
Temperature rise	80°C Max.	Resistance per phase	1.10hm $\pm 20\%$
Insulation resistance	100MOhm Min. (500VDC)	Holding torque	1.14Nm Min. (2.5A)
Insulation class	Class B	Detent torque	-
Cable length	30cm	Rotor inertia	0.3kgcm ²
Weight	738 grams	IP	44

High Torque Step Motor MST001A/MST001A-73

Connections

The step motor MST001A is designed and dimensioned by JVL for use with the entire range of JVL step motor drivers and controllers. It is a high torque stepper motor that, in spite of its length of only 56 mm, offers as much as 1.2Nm. The motor MST001A can be connected directly to the range of JVL drivers and controllers as shown below.



Driver/Controller TT2060GB

Motor

Recommended JVL Controllers and Drivers

The following JVL controllers and drivers are recommended for use with the high torque step motor type MST001A:

General applications:

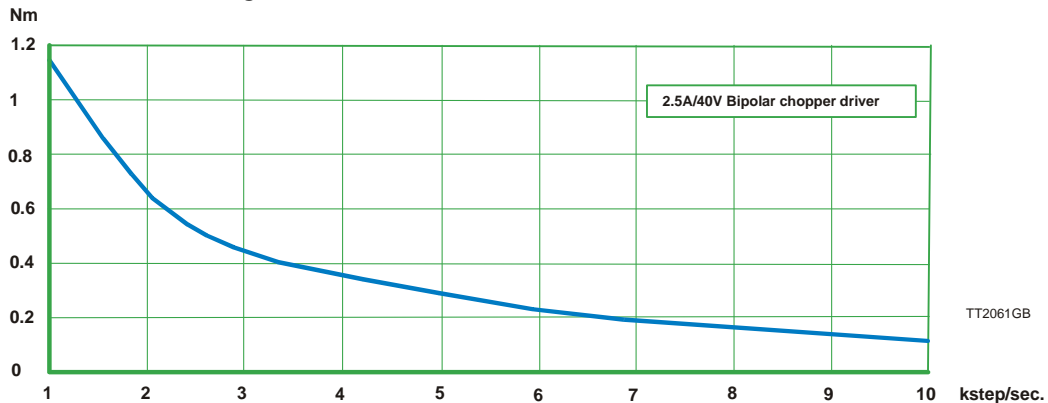
Step motor controller SMC20,	40V/3A
Step motor controller SMC23A,	40V/3A
Step motor controller SMC24A,	40V/3A
Step motor controller SMC25A,	40V/3A
Step motor controller SMC26A,	40V/3A
Step motor driver SMD10A2,	40V/3A
Step motor driver SMD10A4,	40V/3A

Step motor driver SMD73, 24V/2.6A
(See details below)

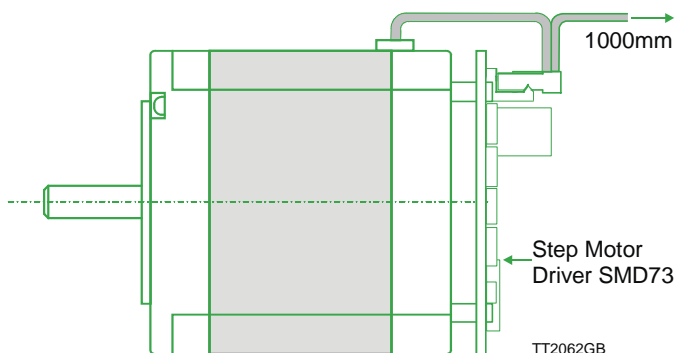
High velocity applications and applications requiring high dynamic

Step motor driver SMD41A1,	80V/3A
Step motor driver SMD41A2,	80V/3A
Step motor driver SMD41A3,	80V/3A
and - adjusted to 2,5A:	
Step motor driver SMD15B1,	80V/6A
Step motor driver SMD15B2,	80V/6A
Step motor driver SMD15B3,	80V/6A
Step motor driver SMD15B4,	80V/6A

Torque versus velocity



MST001A-73 prepared for back mounting of SMD73 Driver



Compact design solution for back mounted SMD73 Step Motor Driver. See SMD73 Datasheet for further details.

Black	0V
Red	24V
Brown	CLK
Blue	DIR



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