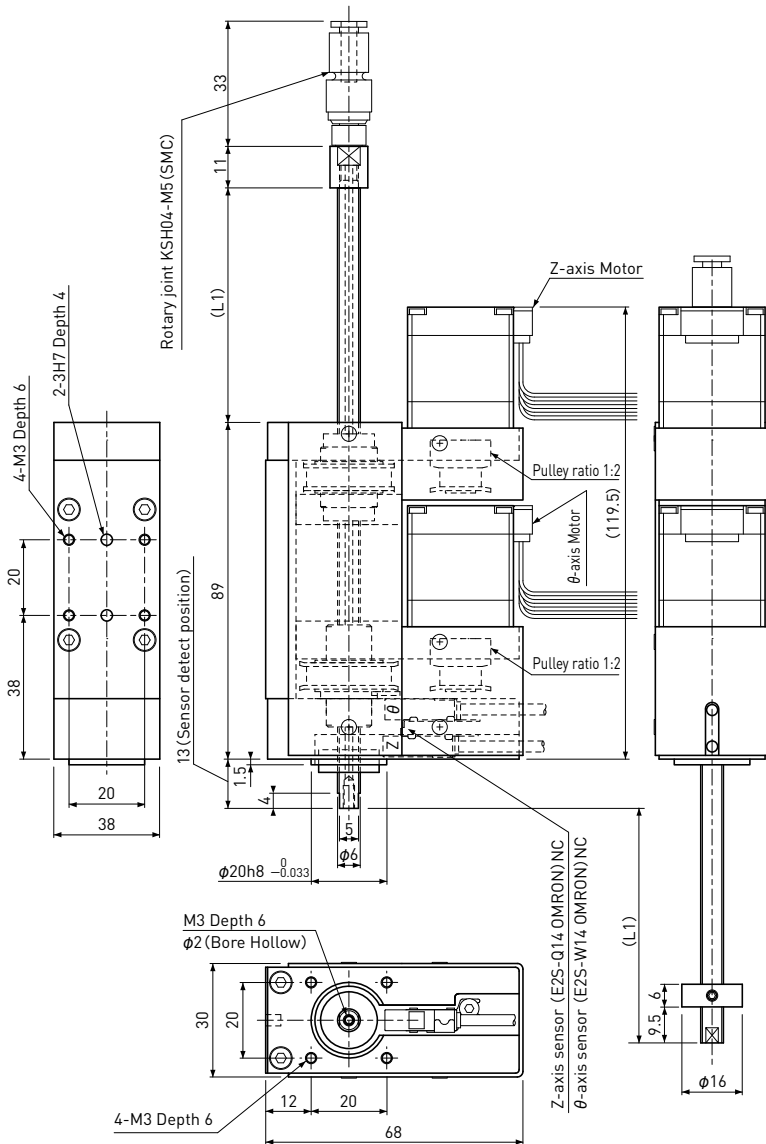


BDVZ06 - G10 - 060/120 N 02

□28/NEMA 11 2-phase Stepping Motor
Lead 10mm Travel 60/120mm



Parts List	
Motor	NEMA 11 Stepping Motor 1.5A/phase
Drive Screw	Ball Screw φ6 (Lead 10mm)
Sliding Guide	Ball Spline φ6mm
Sensor	Z axis : Proximity Sensor E2S-Q14-1M (OMRON) NC θ axis : Proximity Sensor E2S-W14-1M (OMRON) NC

Motor (Z, θ -axis)

A	Black
A̅	Green
B	Red
B̅	Blue

UL3265, AWG24 (600mm)

Sensor (Z, θ -axis)

+12~24V	Brown
LS	Black
GND	Blue

1000mm

	L1
Travel 60mm	62
Travel 120mm	122

Specifications

※The numbers in table below are reference. Detail dimensions will be provided by drawing.

Items	Z Axis	θ Axis
Movable Range	60mm / 120mm	± 360°
Repeatability	±0.020mm	±0.03°
Resolution	25 μm (Full Step)	0.9° (Full Step)
Maximum Speed	200mm / sec	3 rev / sec
Maximum acceleration	1 m/sec ²	150π rad/sec ²
Reference Thrust Force	10N	—
Maximum Permissible Moment	—	0.4 × 10 ⁻⁴ kg·m ² (※1)
Reduction ratio	1/2	1/2
Mass	590g (60 travel) , 600g (120 travel)	
Operating Temperature	0~40°C (No Condensation)	

Dia.	Reference of Moment of Inertia	
	Aluminum	Steel
φ 30mm	180mm (360g)	65mm (360g)
φ 40mm	57mm (200g)	20mm (200g)
φ 50mm	23mm (130g)	8.5mm (130g)

Precautions

- 1) The Z-axis does not have brake device. Please be careful when the power supply is switched off in case of Z-axis may free-fall.
- 2) Reference of Moment of Inertia table shows the theoretical values. KSS recommends that you should apply actual moment to the machine and confirm the safety operation before use.

※1 For the Maximum Permissible Moment, see "Reference of Moment of Inertia" table above.

※2 For the technical information, see "Actuator Technical Description".