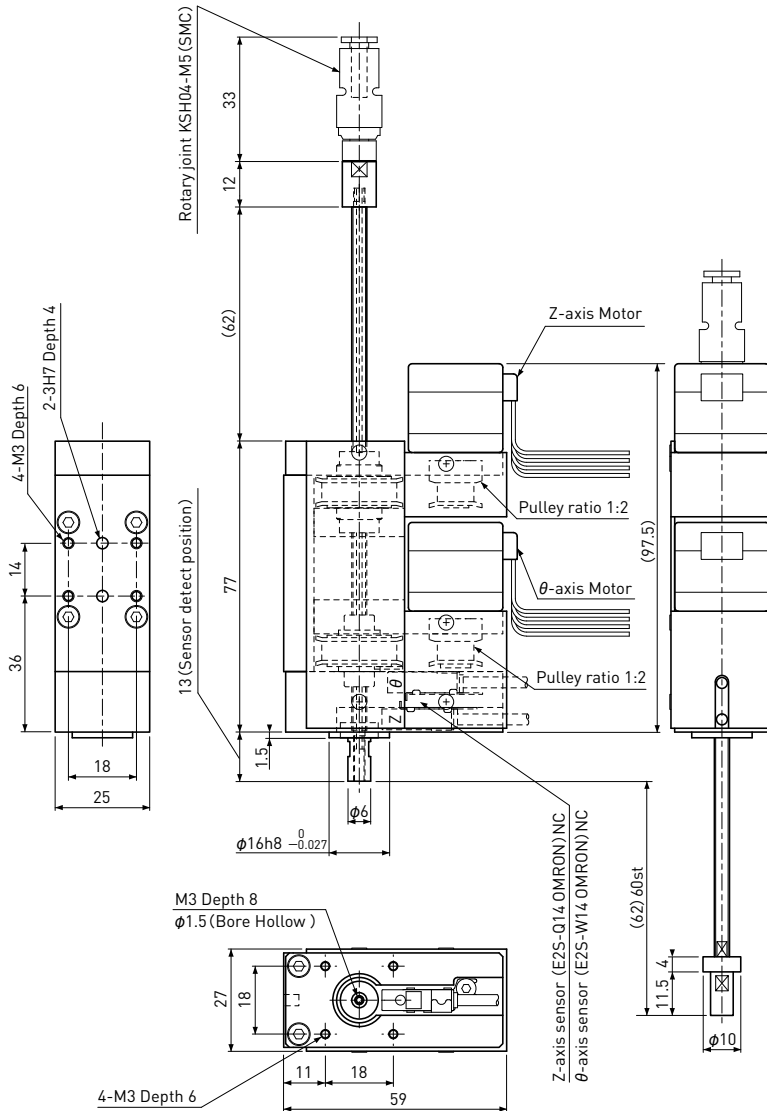


BDVZ04 - G04 - 060 N 01

□25/NEMA 10 2-phase Stepping Motor
Lead 4mm Travel 60mm



Parts List	
Motor	NEMA 10 Stepping Motor 0.7A/phase
Drive Screw	Ball Screw φ4 (Lead 4mm)
Sliding Guide	Ball Spline φ4mm
Sensor	Z axis : Proximity Sensor E2S-Q14-1M (OMRON) NC θ axis : Proximity Sensor E2S-W14-1M (OMRON) NC

Motor(Z, θ-axis)

A	Red
Ā	Yellow
B	Blue
B̄	Orange

UL1061,AWG26(300mm)

Sensor(Z, θ-axis)

+12~24V	Brown
LS	Black
GND	Blue

1000mm

● Specifications

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

Items	Z Axis	θ Axis
Movable Range	60mm	± 360°
Repeatability	±0.020mm	±0.03°
Resolution	10 μm (Full Step)	0.9° (Full Step)
Maximum Speed	80mm / sec	3 rev / sec
Maximum acceleration	0.4 m/sec ²	150π rad/sec ²
Reference Thrust Force	5N	—
Maximum Permissible Moment	—	0.8 × 10 ⁻⁵ kg·m ² (※1)
Reduction ratio	1/2	1/2
Mass	370g	
Operating Temperature	0~40°C (No Condensation)	

Dia.	Reference of Moment of Inertia	
	Aluminum	Steel
φ20mm	180mm(160g)	64mm(160g)
φ30mm	36mm(70g)	12.5mm(70g)
φ40mm	11mm(40g)	4mm(40g)

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".