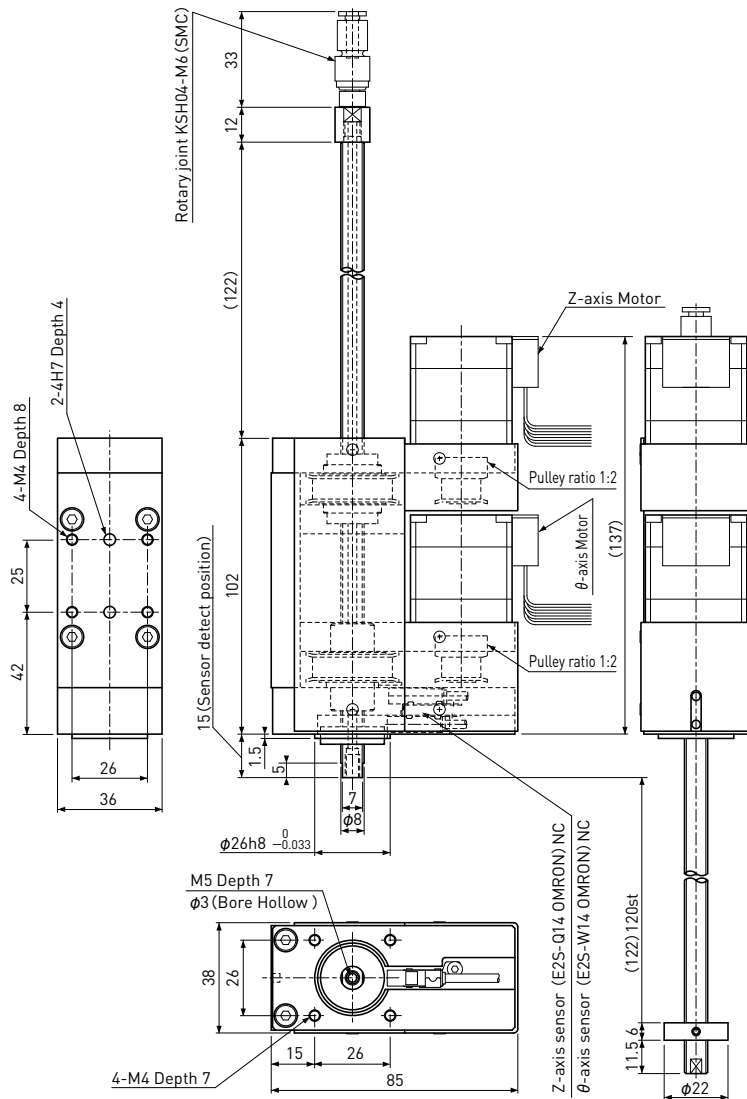


BDVZ08 - G10 - 120 N 03

□35 / NEMA 14 2-phase Stepping Motor
Lead 10mm Travel 120mm



Parts List	
Motor	NEMA 14 Stepping Motor 1.5A/phase
Drive Screw	Ball Screw $\phi 8$ (Lead 10mm)
Sliding Guide	Ball Spline $\phi 8$ mm
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
A	Green
B	Red
B	Blue

UL3265,AWG24 (600mm)

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	120mm	$\pm 360^\circ$
Repeatability	± 0.020 mm	$\pm 0.03^\circ$
Resolution	25 μ m (Full Step)	0.9° (Full Step)
Maximum Speed	200mm / sec	3 rev / sec
Maximum acceleration	1 m/sec ²	150 π rad/sec ²
Reference Thrust Force	15N	—
Maximum Permissible Moment	—	0.1 $\times 10^{-3}$ kg·m ² (※1)
Reduction ratio	1/2	1/2
Mass	1000g	
Operating Temperature	0~40°C (No Condensation)	

Reference of Moment of Inertia		
Dia.	Height	
	Aluminum	Steel
$\phi 40$ mm	142mm(500g)	50mm(500g)
$\phi 50$ mm	58mm(320g)	20.5mm(320g)
$\phi 60$ mm	28mm(220g)	10mm(220g)

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".