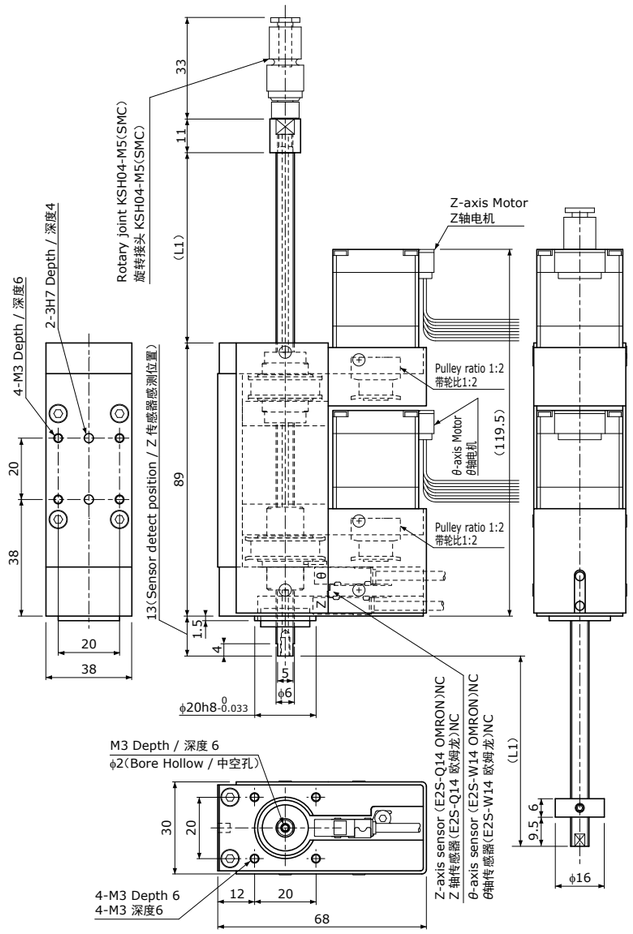
BDVZ06 - G10 - 060/120 N 02

□28/NEMA 11 2-phase Stepping Motor(2相步进电机)
Lead(导程) 10mm Travel(行程) 60/120mm



Parts List 主要部件	
Motor 电机	NEMA 11 Stepping Motor 1.5A/phase □28 步进电机 1.5A/相
Drive Screw 驱动丝杠	Ball Screw f6 (Lead 10mm) 滚珠丝杠 f6(导程 10mm)
Sliding Guide 导向结构	Ball Spline f6mm 滚珠花键 f6mm
Sensor 传感器	Z axis:Proximity Sensor E2S-Q14-1M (OMRON) NC Z轴:近距离传感器E2S-Q14-1M (欧姆龙) NC θ axis:Proximity Sensor E2S-W14-1M (OMRON) NC θ轴:近距离传感器E2S-W14-1M (欧姆龙) NC

Motor(Z,θ-axis) / 电机(Z,θ轴)

A	Black(黑)
Ā	Green(绿)
B	Red(红)
B̄	Blue(蓝)

UL3265,AWG24(600mm)

Sensor(Z,θ-axis) / 传感器(Z,θ轴)

+12~24V	Brown(褐)
LS	Black(黑)
GND	Blue(蓝)

1000mm

	L1
Travel / 行程 60mm	62
Travel / 行程 120mm	122

●规格 / Specifications

※The numbers in table below are reference. Detail dimmensions will be provided by drawing.
※以下为参考值。详情记载于规格图中。

Items 项目	Z Axis Z轴	θ Axis θ轴
Movable Range 动作范围	60mm / 120mm	± 360°
Repeatability 重复定位精度	±0.020mm	±0.03°
Resolution 分辨率	25μm (Full Step / 整步)	0.9° (Full Step / 整步)
Maximum Speed 最高速度	200mm / sec	3 rev / sec
Maximum acceleration 最大加速度	1 m/sec²	150π rad/sec²
Reference Thrust Force 参考推力	10N	—
Maximun Permissible Moment 最大允许惯性力矩	—	0.4×10^{-4}kg·m²(※1)
Reduction ratio 减速比	1/2	1/2
Mass 重量	590g(60 travel), 600g(120 travel) 590g(60行程), 600g(120行程)	
Operating Temperature 使用温度范围	0~40℃(No Condensation) 0~40℃(无结露)	

※1 For the Maximum Permissible Moment, see "Reference of Moment of Inertia" table above.
※2 For the technical information, see " Actuator Technical Description".

※1 θ轴最大允许负载力矩请参照"负载力矩标准"。
※2 技术数据请参照执行器技术解说。

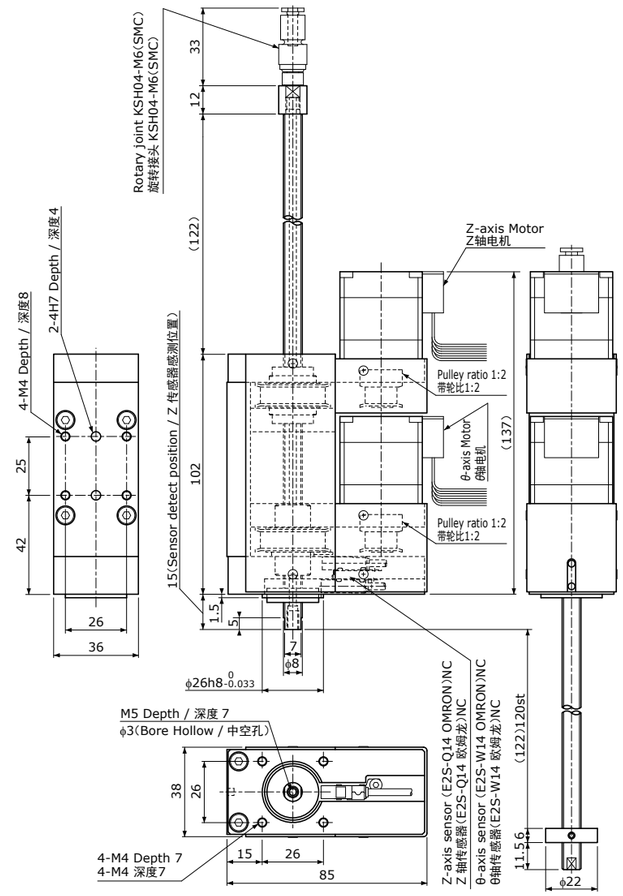
Reference of Moment of Inertia 负载偏心力矩标准		
Dia. / 直径	Height / 高度	
	Aluminum 铝材	Steel 铁材
f30mm	180mm(360g)	65mm(360g)
f40mm	57mm(200g)	20mm(200g)
f50mm	23mm(130g)	8.5mm(130g)

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.

注意事项
1) Z轴不附带制动结构。关闭电源时Z轴可能会下落,敬请注意。
2) "负载力矩标准"为理论值。建议在使用前以实际负载的力矩进行动作确认。

BDVZ08 - G10 - 120 N 03

□35 / NEMA 14 2-phase Stepping Motor(2相步进电机)
Lead(导程) 10mm Travel(行程) 120mm



Parts List 主要部件	
Motor 电机	NEMA 14 Stepping Motor 1.5A/phase □35 步进电机 1.5A/相
Drive Screw 驱动丝杠	Ball Screw f8 (Lead 10mm) 滚珠丝杠 f8(导程 10mm)
Sliding Guide 导向结构	Ball Spline f8mm 滚珠花键 f8mm
Sensor 传感器	Z axis:Proximity Sensor E2S-Q14-1M (OMRON) NC Z轴:近距离传感器E2S-Q14-1M (欧姆龙) NC θ axis:Proximity Sensor E2S-W14-1M (OMRON) NC θ轴:近距离传感器E2S-W14-1M (欧姆龙) NC

Motor(Z,θ-axis) / 电机(Z,θ轴)

A	Black(黑)
Ā	Green(绿)
B	Red(红)
B̄	Blue(蓝)

UL3265,AWG24(600mm)

Sensor(Z,θ-axis) / 传感器(Z,θ轴)

+12~24V	Brown(褐)
LS	Black(黑)
GND	Blue(蓝)

1000mm

●规格 / Specifications

※The numbers in table below are reference. Detail dimmensions will be provided by drawing.
※以下为参考值。详情记载于规格图中。

Items 项目	Z Axis Z轴	θ Axis θ轴
Movable Range 动作范围	120mm	± 360°
Repeatability 重复定位精度	±0.020mm	±0.03°
Resolution 分辨率	25μm (Full Step / 整步)	0.9° (Full Step / 整步)
Maximum Speed 最高速度	200mm / sec	3 rev / sec
Maximum acceleration 最大加速度	1 m/sec²	150π rad/sec²
Reference Thrust Force 参考推力	15N	—
Maximun Permissible Moment 最大允许惯性力矩	—	0.1×10^{-3}kg·m²(※1)
Reduction ratio 减速比	1/2	1/2
Mass 重量	1000g	
Operating Temperature 使用温度范围	0~40℃(No Condensation) 0~40℃(无结露)	

※1 For the Maximum Permissible Moment, see "Reference of Moment of Inertia" table above.
※2 For the technical information, see " Actuator Technical Description".

※1 θ轴最大允许负载力矩请参照"负载力矩标准"。
※2 技术数据请参照执行器技术解说。

Reference of Moment of Inertia 负载偏心力矩标准		
Dia. / 直径	Height / 高度	
	Aluminum 铝材	Steel 铁材
f40mm	142mm(500g)	50mm(500g)
f50mm	58mm(320g)	20.5mm(320g)
f60mm	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.

注意事项
1) Z轴不附带制动结构。关闭电源时Z轴可能会下落,敬请注意。
2) "负载力矩标准"为理论值。建议在使用前以实际负载的力矩进行动作确认。