

冷轧滚珠丝杠+2相步进电机 / Rolled Ball Screw + 2-phase Stepping Motor

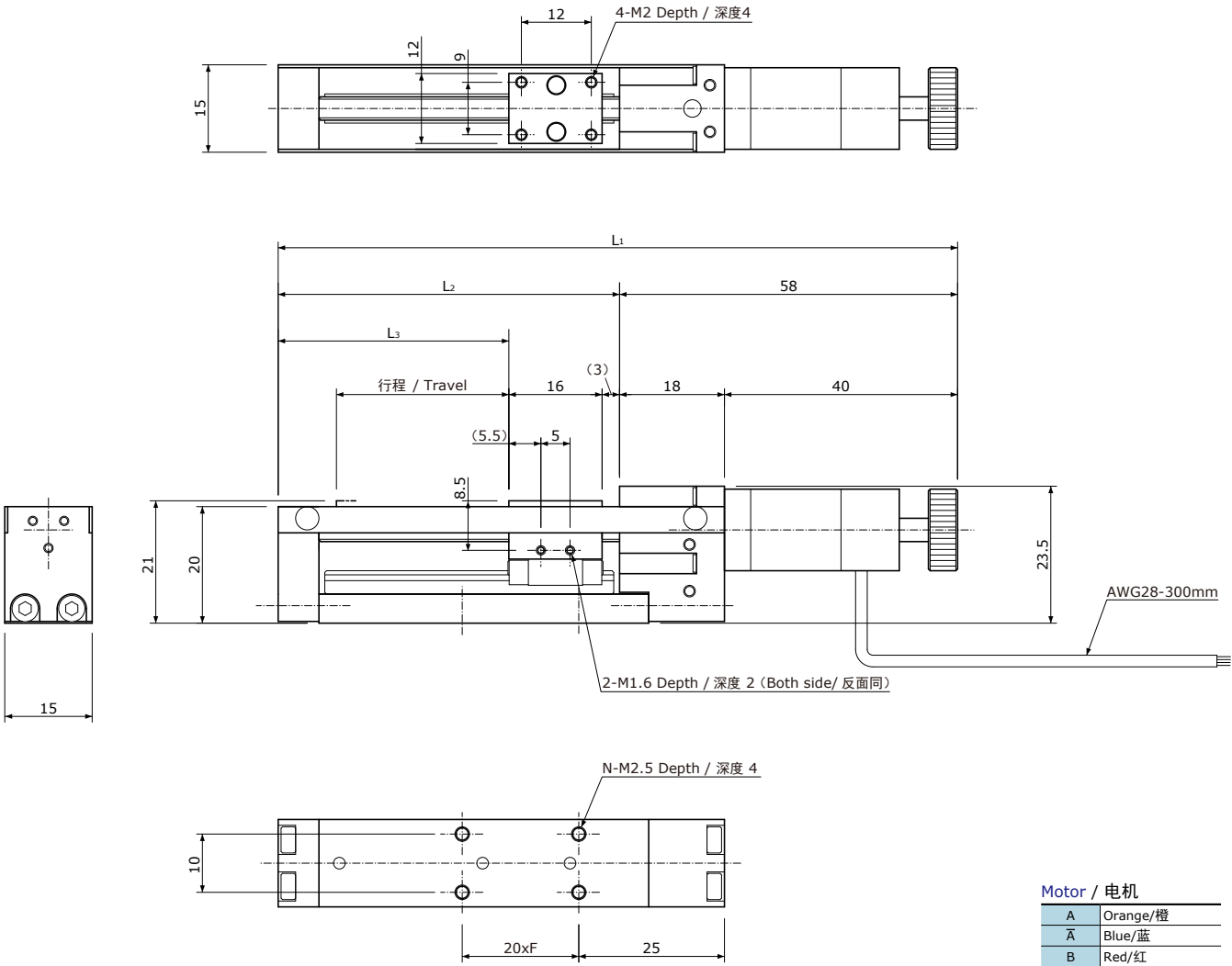
CAS□14 / CAS NEMA 6

Shaft dia.(轴径)f4

Motor Model / 电机型号 : SH2141-5511(Double Shaft / 双轴)

Sanyo Denki / 山洋电气

Driver recommendation / 推荐驱动器 : SD4015B3



Motor / 电机	
A	Orange/橙
Ā	Blue/蓝
B	Red/红
B̄	Yellow/黄

注释

- 1)使用时不得出现结露现象。
- 2)允许力矩是其他方向没有负载时的值。
- 3)分辨率为整步时的值。
- 4)导线为散线及右侧引线时的型号。
- 5)低速时、原点复位时振动可能略有增大。

Model Number 执行器型号	Travel 行程	Screw Lead 丝杠导程	Resolution 分辨率	Length 长度尺寸 (mm)						Max. Load Capacity 最大可搬负载 (N)		Permissible speed 许用转速	Mass 质量	
				L ₁	L ₂	L ₃	F	N		Hor. 水平	Vert. 垂直			
	(mm)	(mm)	(μm)									(mm / sec)	(g)	
CAS14-R010-020	20	1	0.005	107	49	30	1	4			10	5	20	88
CAS14-R010-040	40	1	0.005	127	69	50	2	6			10	5	20	96
CAS14-R020-020	20	2	0.01	107	49	30	1	4			5	3	40	88
CAS14-R020-040	40	2	0.01	127	69	50	2	6			5	3	40	96

Permissible Moment 允许偏心力矩		
Pitching 俯仰 Mp		0.14Nm
Yawing 偏转 My		0.12Nm
Rolling 侧滚 Mr		0.22Nm

Lubrication 润滑	Grease 油脂 MSG No.2 (KSS)
Operating Temp. 使用温度范围	0~40°C

执行器安装基准面请参照技术解说第S106页。
Please refer to Technical Description page S106 for the Datum clamp face of the Actuator.

连接器选择方案

请从下面指定连接器种类。
没有指示的采用散线。

- 1)散线
- 2)广濑RP17-13J-12SC
- 3)EI-连接器(TE connectivity制造)
6芯(172211-6,电机)+4芯(172211-4,传感器)

HIROSE RP17 Connector 广濑RP17连接器规格	
Upper side(white dot) 上侧(白点)	
RP17-13J-12SC (female/插口)	
1	None 无
2	None 无
3	Stepping Motor A(Orange/橙)
4	Stepping Motor Ā(Blue/蓝)
5	Stepping Motor B(Red/红)
6	Stepping Motor B̄(Yellow/黄)
7	None 无
8	None 无
9	None 无
10	None 无
11	None 无
12	None 无

EI Connector EI连接器规格	
172211-6(male/插头)	
1	None 无
2	None 无
3	Stepping Motor A(Orange/橙)
4	Stepping Motor Ā(Blue/蓝)
5	Stepping Motor B(Red/红)
6	Stepping Motor B̄(Yellow/黄)

Connector choice

Please designate connector type below.
No connector if there is no designation.

- 1)None(Bare)
- 2)RP17-13J-12SC(HIROSE)
- 3)EI-Connector(TE connectivity)
172211-6 pins for Motor +172211-4 pins for Sensor

When Sensor option is selected 选择传感器选项时	
Upper side (white dot) 上侧(白点)	
RP17-13J-12SC (female/插口)	
1	None 无
2	None 无
3	Stepping Motor A(Orange/橙)
4	Stepping Motor Ā(Blue/蓝)
5	Stepping Motor B(Red/红)
6	Stepping Motor B̄(Yellow/黄)
7	+5~24V(Blown/褐)
8	COM(Blue/蓝)
9	Short circuit with No.8 与8号短路
10	ORGLS Sensor/传感器 NC(Black/黑)
11	None 无
12	None 无

When Sensor option is selected 选择传感器选项时	
172211-4 (male/插头)	
1	+5~24V(Blown/褐)
2	COM(Blue/蓝)
3	Short circuit with No.2 与2号短路
4	ORGLS Sensor/传感器 NC(Black/黑)

Note

- 1)There should be no condensation when using.
- 2)Permissible Moment is the number when no load in other direction.
- 3)Resolution represents the values for full step.
- 4)Model number is for no-connector and lead wire is set on right side on Motor.
- 5)Vibration may increase at low speed or zero return.

Common Specifications 通用规格	
Repeatability 重复定位精度	Max. ±0.01mm
Lost Motion 空转	Max. 0.01mm
Body Material 主体材质	Aluminum 铝
Sliding guide 导向结构	Slide Guide rail 滑动导轨(1列)

Motor Specifications 电机参数	
Driving method 励磁方式	2-phase Bi-polar 2相双极方式
Rated Voltage 额定电压	6.3V(DC)
Rated current 额定电流	0.3A/phase(※) 0.3A/相(※)
Winding resistance 绕组电阻	21Ω
Insulation Class 绝缘等级	Class B(130°C) B级(130°C)

※推荐使用组合驱动器SD4015B3(Vanguard Systems公司)。
使用时请将驱动电流设定为0.4A。
※SD4015B3 (Vanguard Systems Co., Ltd.) is recommended for driver.
Please use Run current 0.4A setting.