

KR-A55MC

DC24V输入 微型步进驱动器

DC24V Input Microstep Driver

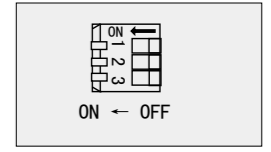


DC24V 适用于0.4~1.4A / 相 0.4~1.4A / phase 微型步进 Micro-step 箱型 Case type

规格 Specifications

项目 Items	规格值 Specifications														
电源 Power supply	DC20-35V (-10%, +20%) max.3A														
驱动电流 Output current (出厂时 0.75A/相) (0.75A/phase at shipping)	额定电流0.4~1.4A/相 Rated current : 0.4~1.4A/phase 可利用数字开关[RUN]在0.4~1.4A/相的范围内设定。 Capable of setting the current to 0.4~1.4A/phase by the digital switch "RUN"														
驱动方式 Driving Type	双极恒流五角驱动方式 Bipolar pentagon constant current drive														
输入信号回路 Input signal circuit	信号名 Signal name	功能说明 Functional description	输入电阻 Input resistance												
	CW+	1时钟模式时的脉冲信号输入	Pulse signal input for 1 clock mode	270Ω											
	CW-	2时钟模式时的正转信号输入	CW rotation input for 2 clock mode												
	CCW+	1时钟模式时的转向指示输入	Rotational direction input for 1 clock	270Ω											
	CCW-	2时钟模式时的反转信号输入	CCW rotation input for 2 clock												
	H.O.+	电机励磁OFF控制信号	Motor excitation OFF control signal	390Ω											
	H.O.-	"H" 时电机励磁OFF	"H" for motor exciting OFF												
	D.S.+	微步插值选择信号	Micro-step interpolation selection	390Ω											
D.S.-	"L" 时选择MS1、"H" 时选择MS2 "L" for MS1 & "H" for MS2														
脉冲宽度 0.25μsec以上、上升下降时间 1μsec以下 Pulse width : 0.25μs min., Rising-up time : 1μs max. 脉冲间隔 0.25μsec以上、脉冲频率 500kpps以下 Pulse interval : 0.25μs min., Pulse frequency : 500kpps max. 脉冲电压 "H" : 4~8V "L" : 0~0.5V Pulse voltage : "H" for 4~8V & "L" for 0~0.5V 光电耦合器的电流从OFF (逻辑L) 到ON (逻辑H) 时动作 Triggered at the edge of OFF (Logic"L") to ON (Logic"H") of photo-coupler current 在1时钟模式下, CCW输入为"L" 时进行CCW旋转 CCW rotation with CCW input of "L" in 1-clock system															
输出信号回路 Output signal Circuit	信号名 Signal name	功能说明 Functional description	输出容量 Output capacity												
	Z.P.+ Z.P.-	原点励磁信号输出 原点励磁时ON	Origin exciting output signal Switched ON while origin is being excited	DC30V max. 50mA max.											
励磁顺序为[0]时ON, 使用0.72°电机时每7.2度输出。接通电源时, 若切换步进角则可能无法输出。 This signal is ON at the exciting sequence of [0] and is transmitted at each 7.2 degrees for the Step Motor with 0.72°steps. When micro-step angle is changed after the power supply is turned on, it may not be transmitted.															
微步插值设定 (出厂时MS1 : 5、MS2 : 0)	仅采用1种微步驱动时, 通过数字开关MS1设定插值数。 For micro-step driving of one type only, set the number interpolation using the digital SW MS1. 采用2种微步驱动时 (在往复运动的前进、返回过程中改变速度时), 通过数字开关MS1、MS2设定各插值数。 For micro-step driving of two types. (i.e. when changing speed for going and returning in reciprocating motion) set respective numbers of interpolation using the digital SW MS1 and MS2.														
	设定编号 Set No.	0 1 2 3 4 5 6 7 8 9	插值数 Interpolation												
<table border="1"> <tr> <td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td> </tr> <tr> <td>50</td><td>80</td><td>100</td><td>125</td><td>200</td><td>250</td> </tr> </table>				A	B	C	D	E	F	50	80	100	125	200	250
A	B	C	D	E	F										
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注1) Note 1) 															
微步插值的设定编号选择0.1时, 内部将发生1/4插值的低振动驱动。 When the setting of micro-step interpolating No. is "0.1", 1/4-interpolate low-frequency driving takes place inside.															
驱动电流的设定 (出厂设定 : 5)	根据下表选择电机旋转时的电流, 并通过数字开关RUN进行设定。 The output current to the motor in rotation is set by the digital switch "RUN" to select from the table below.														
	设定编号 Set No.	0 1 2 3 4 5 6 7 8 9	电流 (A) Current (A)												
<table border="1"> <tr> <td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td> </tr> <tr> <td>1.09</td><td>1.15</td><td>1.22</td><td>1.27</td><td>1.33</td><td>1.4</td> </tr> </table>				A	B	C	D	E	F	1.09	1.15	1.22	1.27	1.33	1.4
A	B	C	D	E	F										
1.09	1.15	1.22	1.27	1.33	1.4										
注1) Note 1) 															
电流自动下降的设定 (出厂设定 : 5)	根据下表选择电机停止时的电流, 并通过数字开关STOP进行设定。 The output current to the motor at stationary is set by the digital switch "STOP" to select from the table below. 该数值为相对于RUN电流的百分比。最终脉冲输入约后500ms, 电流开始减少。 The value is set by the percent to "RUN" current. The current decreases at approx. 500ms after the last pulse.														
	设定编号 Set No.	0 1 2 3 4 5 6 7 8 9	百分比 (%)												
<table border="1"> <tr> <td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td> </tr> <tr> <td>70</td><td>74</td><td>78</td><td>82</td><td>86</td><td>90</td> </tr> </table>				A	B	C	D	E	F	70	74	78	82	86	90
A	B	C	D	E	F										
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项目 Items	规格值 Specifications				
	No.	显示 symbol	功能 Function	ON	OFF
拨动开关设定 (出厂时的设定均为OFF) Setting of dip-switches (All off at shipping)	1	TEST	自测功能 Self test function	约250pps时旋转 Rotating at 250pps	常规动作 Normal operation
	2	1 / 2 CLK	时钟模式切换 Switching of clock	1时钟模式 1 clock mode	2时钟模式 2 clock mode
	3	C / D	电流自动下降 Automatic current-down	不使用 Invalid	使用 Valid
工作环境温度、湿度 Operating temperature & humidity	0~40° C 85%RH以下(无结露) 0~40° C 85%RH Max. without any condensation.				
存放环境温度、湿度 Storage temperature & humidity	-10~70° C 85%RH以下(无结露) -10~70° C 85%RH Max. without any dew condensation.				
重量 Mass	约220g Approximately 220g				



注2 (Note2)

注1) 1脉冲的微步角度 = 基本步进角 / 插值数
Note 1) Micro-step angle for 1 pulse = Basic step angle / Number of interpolation
注2) 无论插值数的设定如何, 在内部发生约250pps, 拨动开关No.2 ON时进行CCW旋转, OFF时进行CW旋转。
Note 2) Approx. 250pps is generated inside, regardless of splits setting; CCW rotation when the dip switch NO.2 is ON, and CW rotation when the dip switch NO.2 is OFF.

驱动器外形尺寸 / Driver Outer Dimensions

