DC24V Input Microstep Driver

DC24V



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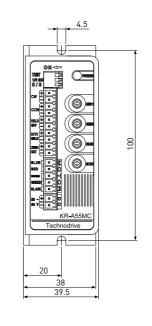
■Specit	fications	(€ (RoHs	To Trackmentors			
Items		Specification				
Power supply		DC20-35V (-10%,+20%) max.3A				
Output current (0.75A/phase at shipping)		Rated current : 0.4~1.4A/phase Capable of setting the current to 0.4~1.4A/phase by the digital switch "RUN"				
Driving Type		Bipolar pentagon constant current drive				
	Signal name	Functional description	Input resistance			
	CW+	Pulse signal input for 1 clock mode CW rotation input for 2 clock mode	270Ω			
	CCW+	Rotational direction input for 1 clock CCW rotation input for 2 clock	270Ω			
Input signal circuit	H.O.+ H.O	Motor excitation OFF control signal "H" for motor exciting OFF	390Ω			
	D.S.+	Micro-step interpolation selection "L" for MS1 & "H" for MS2	390Ω			
	D.S	Pulse width: 0.25µs min., Rising-up time: 1µs max. Pulse interval: 0.25µs min., Pulse frequency: 500kpps max. Pulse voltage: "H" for 4~8V & "L" for 0~0.5V Triggerd at the edge of OFF (Logic"L") to ON (Logic"H") of photo-coupler curre CCW rotation with CCW input of "L" in 1-clock system	nt			
	Signal name	Functional description	Output capacity			
	Z.P.+	Origin exciting output signal	DC30V max.			
Output signal	Z.P	Switched ON while origin is being excited	50mA max.			
Circuit		This signal is 0N 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.				
Setting of micro-step Interpolation (MS1 : 5, MS2 : 0 at shipping)		For micro-step driving of one type only, set the number interpolution using the digital SW MS1. 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.				
		Set No. 0 1 2 3 4 5 6 7 8 9 Interpolation 1 2 4 5 8 10 16 20 25 40 A B C D E F 50 80 100 125 200 250 When the setting of micro-step interpolating No. is "0.1", 1/4-interpolate low-frequence in the polating No. is "0.1", 1/4-interpolate low-f	Note 1) 189 189 189 189 189 189 189 189 189 189			
		The output current to the motor in rotation is set by the digital switch "RUN" to select from the table below.				
Setting of driv		Set No. 0 1 2 3 4 5 6 7 8 9 Current(A) 0.4 0.5 0.57 0.63 0.71 0.77 0.84 0.9 0.96 1.02	4.53.8			
(Setting "5" at shipping)		A B C D E F 1.09 1.15 1.22 1.27 1.33 1.4	RUN			
Automatic current-down (Setting "5" at shipping)		The output current to the motor at stationary is set by the digital switch "STOP" to select from the table below. The value is set by the percent to "RUN" current. The current decreases at approx. 500ms after the last pulse.				
		Set No. 0 1 2 3 4 5 6 7 8 9	2/037			
		(%) 27 31 36 40 45 50 54 58 62 66	STOP			
		A B C D E F 70 74 78 82 86 90				
		/0 /4 /0 02 00 70				

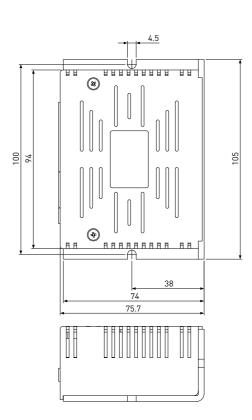
Items	Specification							
	No.	symbol	Function	ON	OFF	(ox 1 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
Setting of dip-switches	1	TEST	Self test function	Rotating at 250pps	Normal operation			
(All off at shipping)	2	1/2 CLK	Switching of clock	1 clock mode	2 clock mode	ON ← OFF		
	3	C/D	Automatic current-down	Invaild	Vaild	Note2		
Operating temperature & humidity	$0\sim40^\circ\!\!\mathrm{C}$ 85%RH Max. without any condensation.							
Storage temperature & humidity	-10 \sim 70°C 85%RH Max. without any dew condensation.							
Mass	Approximately 220g							

Note 1) Micro-step angle for 1 pulse=Basic step angle / Number of interpolation

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.

Driver Outer Dimensions





Stepping Motor Driver