

KR-A535M

AC100-220V Input Microstep Driver

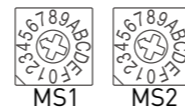


- AC100-220V
- 0.4~1.4A / phase
- Micro-step
- Full connector



Specifications

Items	Specification										
Power supply	AC100-220V (±10%) max.3A 50/60Hz										
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										
Input signal circuit	Signal name	Functional description	Input resistance								
	CW+	Pulse signal input for 1 clock mode	270Ω								
	CW-	CW rotation input for 2 clock mode									
	CCW+	Rotational direction input for 1 clock	270Ω								
	CCW-	CCW rotation input for 2 clock									
	H.O.+	Motor exciting OFF control signal	390Ω								
	H.O.-	"H" for motor exciting OFF									
	D.S.+	Micro-step interpolation selection	390Ω								
D.S.-	"L" for MS1 & "H" for MS2										
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 Triggerred at the edge of OFF (Logic"L") to ON (Logic"H") of photo-coupler current CCW rotation with CCW input of "L" in 1-clock system											
Output signal Circuit	Signal name	Functional description	Output capacity								
	Z.P.+	Origin exciting output signal	DC30V max. 50mA max.								
	Z.P.-	Switched ON while origin is being excited									
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.											
Setting of micro-step interpolation (MS1 : 5, MS2 : 0 at shipping)	For micro-step driving of one type only, set the number interpolation 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					
Note) When the setting of micro-step interpolating No. is "0.1", 1/4-interpolate low-frequency driving takes place inside.											
Setting of driving current (Setting "5" at shipping)	The output current to the motor in rotation is set by the digital switch "RUN" to select from the table below.										
	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
	A	B	C	D	E	F					
	1.09	1.15	1.22	1.27	1.33	1.4					
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
	(%)	27	31	36	40	45	50	54	58	62	66
	A	B	C	D	E	F					
	70	74	78	82	86	90					



Items	Specification					 OFF → ON note2
	No.	symbol	Function	ON	OFF	
Setting of dip-switches (All off at shipping)	1	TEST	Self test function	Rotating at 250pps	Normal operation	
	2	1 / 2 CLK	Switching of clock	1 clock mode	2 clock mode	
	3	C / D	Automatic current-down	Invaield	Vaield	
Operating temperature & humidity	0 ~ 40°C 85%RH Max. without any condensation.					
Storage temperature & humidity	-10 ~ 70°C 85%RH Max. without any dew condensation.					
Mass	Approximately 660g					

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

