

Stepping Motor Driver

Stepping Motor Driver recommendation

KSS provides recommended Stepping Motor Driver as an option in order to make it easy to use.

●Precaution of Driver usage

Please adjust the run current according to the rated current of the Motor before use.
The adjustment method of the Run current is different for each driver. To adjust the Run current, it is available to download each instruction manuals from KSS website and follow the steps to make the correct adjustment.

●Standard Stepping Motor Driver

KR-A5CC

This Driver is for 5-phase Stepping Motor operated by DC24V power supply. It has automatic current reduction circuits. You can choose full-step or half step function.



KR-A55MC

Micro-Step Driver for 5-phase Stepping Motor with DC24V power supply. 16 step angle types can be set with up to 250 divisions.



KR-A535M

Micro-Step Driver for 5-phase Stepping Motor, which can be used with AC100~220V power supply. 16 step angle types can be set with up to 250 divisions.



SD4015B3

This is recommended Bipolar 2-phase stepping Motor Driver for rated current 0.25A/phase~1.5A/phase. It has Micro-Step function with 8-step angle.



SD4030B3

This is recommended Bipolar 2-phase stepping Motor Driver for rated current 0.5A/phase~3.0A/phase. It has Micro-Step function with 8-step angle.



Outer dimensions and specifications of KSS recommended Driver are shown from next page.

KR-A5CC

DC24V Input 5-phase Stepping Motor Driver

DC24V

0.1~0.9A / phase

Full / Half-Step

Case type

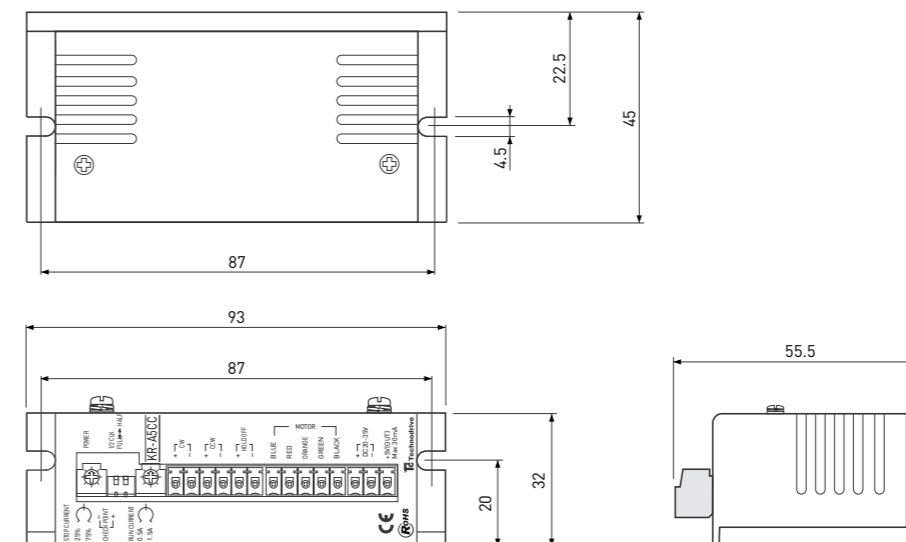


■Specifications



Items	Specification					
Power supply	DC20-35V (-10%,+20%) max.3A					
Output current (0.35A/phase at shipping)	Rated current : 0.1~0.9A/phase					
Driving Type	Bipolar pentagon constant current drive					
Input signal circuit	Signal name	Functional description	Input resistance			
	CW+	Pulse signal input for 1 clock mode	390Ω			
	CW-	CW rotation input for 2 clock mode				
	CCW+	Rotational direction input for 1 clock	390Ω			
	CCW-	CCW rotation input for 2 clock				
	H.O.+ H.O.-	Motor exciting OFF control signal "H" for motor exciting OFF	390Ω			
	Pulse width : 0.5μs min., Rising-up time : 10μs max. Pulse interval : 0.5μs min., Pulse frequency : 50kpps 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 current CCW rotation with CCW input of "L" in 1-clock system					
Setting of driving current	To change the RUN current, connect the CP+ to the (+) terminal of the voltmeter and the CP- to the (-) terminal of the voltmeter then adjust RUN CURRENT volume. $\text{Setting current (A)} = \frac{\text{CP voltage (V)}}{4}$ Setting example) When drive current is set to 0.35A/phase, the CP voltage is adjusted to 1.4V. Note) Run current should be changed during the operating of motor.					
Setting of Stop current	In order to reduce the heat adjusting the current, change it using STOP CURRENT volume. The setting value of STOP CURRENT volume is a percentage of the setting volume of RUN CURRENT. Ex) After setting 1.4A for Run current then put STOP CURRENT volume at 50%, the stop current will be 0.7A.					
Setting of Dip-switches (All off at shipping)	No.	Symbol	Function	ON	OFF	
	1	1/2 CLK	Switching of clock	1 clock mode	2 clock mode	
	2	Full / Half	Setting of Interpolation	Full-step (0.72°)	Half-step (0.36°)	
Operating temperature & humidity	0~40°C 85%RH max. without any dew condensation.					
Storage temperature & humidity	-10~70°C 85%RH max. without any dew condensation.					
Mass	Approximately 130g					

●Driver Outer Dimensions



KR-A55MC





DC24V Input Microstep Driver



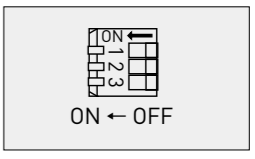
DC24V 0.4~1.4A / phase Micro-step Case type

Specifications



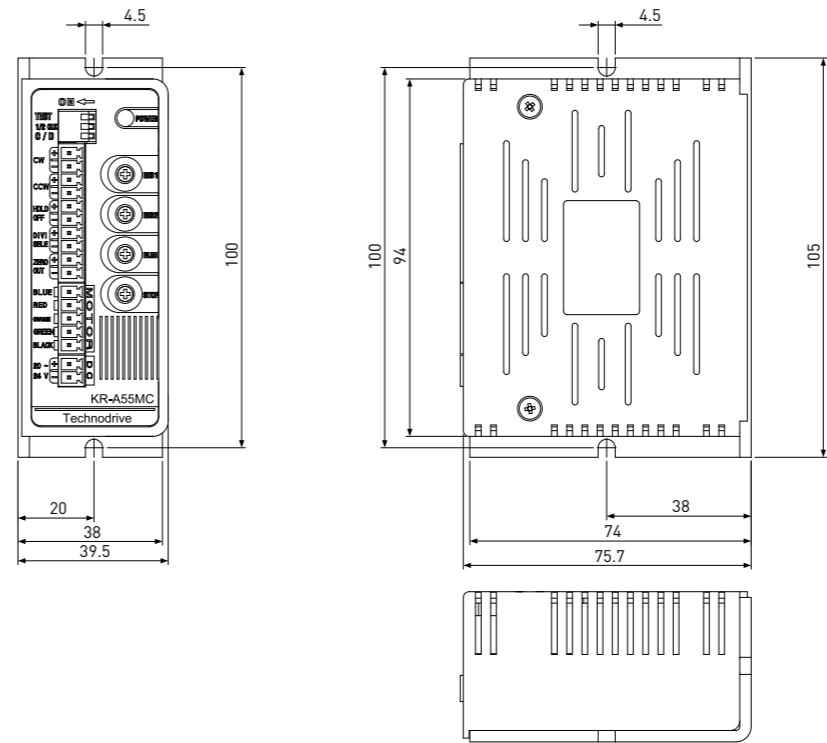
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Power supply	DC20-35V (-10%,+20%) max.3A																																												
Output current (0.75A/phase at shipping)	Rated current : 0.4~1.4A/phase Capable of setting the current to 0.4~1.4A/phase by the digital switch "RUN"																																												
Driving Type	Bipolar pentagon constant current drive																																												
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Items	Specification				
	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	Invaild	Vaild
Operating temperature & humidity	0 ~ 40℃ 85%RH Max. without any condensation.				
Storage temperature & humidity	-10 ~ 70℃ 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

Stepping Motor Driver

KR-A535M





AC100-220V Input Microstep Driver




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



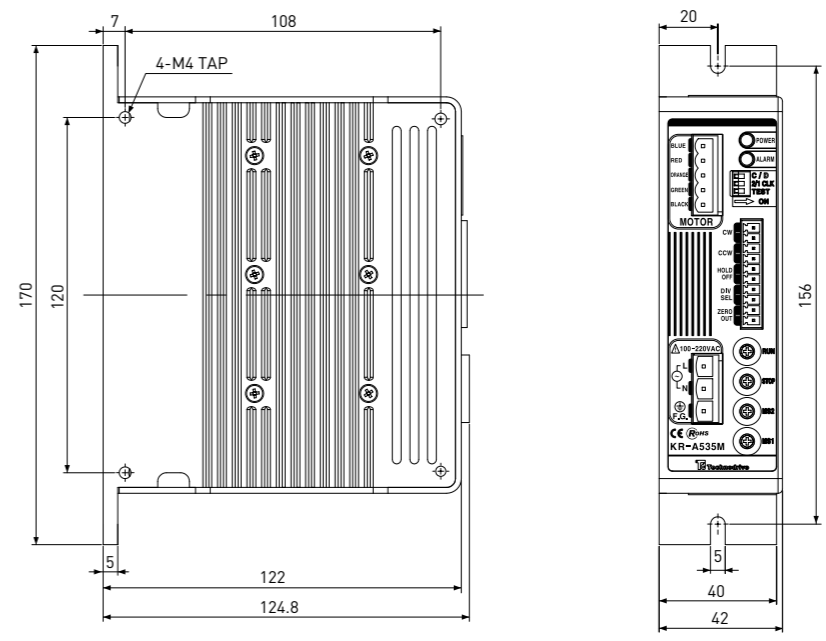
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Power supply	AC100-220V (±10%) max.3A 50/60Hz																																												
Output current (0.75A/phase at shipping)	Rated current : 0.4~1.4A/phase Capable of setting the current to 0.4~1.4A/phase by the digital switch "RUN"																																												
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Automatic current-down (Setting "5" at shipping)	<p>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.</p> <table border="1"> <thead> <tr> <th>Set No.</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> </tr> </thead> <tbody> <tr> <td>(%)</td> <td>27</td> <td>31</td> <td>36</td> <td>40</td> <td>45</td> <td>50</td> <td>54</td> <td>58</td> <td>62</td> <td>66</td> </tr> <tr> <td></td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>70</td> <td>74</td> <td>78</td> <td>82</td> <td>86</td> <td>90</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <div style="text-align: center;">  <p>STOP</p> </div>	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				
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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	Invalid	Valid	
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



Stepping Motor Driver

Stepping Motor Driver

SD4015B3

DC24V Input 2-phase Stepping Motor Driver



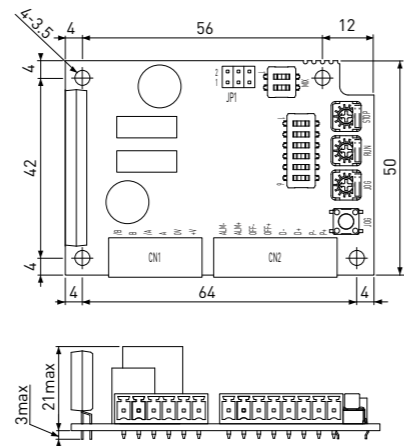
DC24V 0.25~1.5A / phase Full / half step Board type

Specifications



Items	Description	Note
Input voltage	DC+18V~36V	
Output current	0.25~1.5A peak(±5%)/phase	Being lower rated output current beyond Power Supply 24V
Drive method	Chopper mode by Bipolar constant current	It can be used for uni-polar type.
Current down function	Auto Current down Adjusting to set lower current of CND volume about 0.25 ~ 1 second after pulse stop	Selectable by switch.
Maximum input pulse cycle	200Kpps	
Adjusting	RUN	For excitation current(0.25~1.5A) The default factory setting is 1A.
	STOP	For current down value on current down mode. Selectable between 10% to 60% of RUN current.
	MIX	Mixed Decay ratio(0%,20%,40%,80%) The default factory setting is 80%
	JOG	For JOG speed setting. 300pps~14Kpps
Select function	SW-1,2,3	Select of Resolutions 1/2, 1/8, 1/10, 1/16, 1/20, 1/32, 1/40, 1/64
	SW-4	ON/OFF for function of auto current down mode. Switch ON is active and OFF is no active. The default factory setting is ON.
	SW-5,6	Select of JOG function SW-5 ON is active for JOG, SW6 ON is CW, OFF is CCW
	SW-3	Select of Mix-Decay ratio
	JP1	Select of 1-pulse, 2-pulse
Input signals	P+,P-	Pulse Command Selection of 1 pulse an 2 pulse for pulse command.
	D+,D-	Direction Command Isolated by photo coupler
	OFF+,OFF-	No excitation
Output signals	ALM+,ALM-	Alarm (Prospecting of over-heat for Power device) Output at over 170°C(Typ.) of power device Photo Isolation, ON is active, OFF is no active(ALARM).
Dimension	W72×D50×H21	
Operating Temperature and Humidity	0~40°C,35~80% RH No condensation	
Storage Temperature and Humidity	-20~+85°C,35~80% RH No condensation	
Mass	Approximately 40g	

Driver Outer Dimensions



SD4030B3

DC24V Input 2-phase Microstep Driver



DC24V 0.5~3A / phase Micro-step Board type

Specifications



Items	Description	Note
Input voltage	DC+18V~36V	
Output current	0.5~3A peak(±5%)/phase	Being lower rated output current beyond Power Supply 24V
Drive method	Chopper mode by Bipolar constant current	It can be used for uni-polar type.
Current down function	Auto Current down Adjusting to set lower current of CND volume about 0.7 second after pulse stop	Selectable by switch.
Maximum input pulse cycle	200Kpps	
Adjusting	RUN	For excitation current(0.5~3A) The default factory setting is 2A.
	STOP	For current down value on current down mode. Selectable between 10% to 60% of RUN current.
	MIX	Mixed Decay ratio(0%,20%,40%,80%) The default factory setting is 80%
	JOG	For JOG speed setting. 300pps~14Kpps
Select function	SW-1,2,3	Select of Resolutions 1/2, 1/8, 1/10, 1/16, 1/20, 1/32, 1/40, 1/64
	SW-4	ON/OFF for function of auto current down mode. Switch ON is active and OFF is no active. The default factory setting is ON.
	SW-5,6	Select of JOG function SW-5 ON is active for JOG, SW6 ON is CW, OFF is CCW
	SW-3	Select of Mix-Decay ratio
	JP1	Select of 1-pulse, 2-pulse
Input signals	P+,P-	Pulse Command Selection of 1 pulse an 2 pulse for pulse command.
	D+,D-	Direction Command Isolated by photo coupler
	OFF+,OFF-	No excitation
Output signals	ALM+,ALM-	Alarm (Prospecting of over-heat for Power device) Output at over 170°C(Typ.) of power device Photo Isolation, ON is active, OFF is no active(ALARM).
Dimension	W90×D55.5×H28	
Operating Temperature and Humidity	0~40°C,35~80% RH No condensation	
Storage Temperature and Humidity	-20~+85°C,35~80% RH No condensation	
Mass	Approximately 112g	

Driver Outer Dimensions

