

SMC42

Compact Microstep Constant Current Driver



Technical Characteristics:

Operating voltage:	<u>DC 21 V to 37 V</u>
max. Phase Current:	<u>2A / phase</u>
Current setting:	via fixed resistors (Rsens)
Mode:	Bipolar-Chopper-Driver
Operating Mode:	Full- (1/1), half-, quarter-, 1/8-step
Step frequency:	0 to 50 kHz
Current down:	automatically to 65%
Input signals:	0 V active
LED:	error-message (overvoltage; cooling device temp. >80°C)
Temperature range:	0 bis +40°C
Type of Connection:	via screw-type terminals, alternatively via screw type plug-in terminals
Kind of mounting:	via DIN-rail EN 50 022 35 x 7.5
Weight:	130 g

Attention:

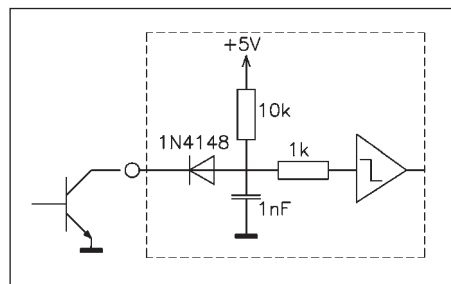
A charging capacitor of at least 4.700 µF has to be provided in the supply voltage so that the permissible voltage is not exceeded during the braking process.

Pin-Assignment: (AWG 26-16)

- 1 = GND (Signal Ground)
- 2 = + 5V (Measuring Point)
- 3 = Direction (DIR)
- 4 = Clock
- 5 = Enable (H or. open=Enable / L=Disable)
- 6 = VSS Operating Voltage
- 7 = GND (Power Ground)
- 8 = not used

If phase current is set lower than 1.5 A, the resistor Ri has to be 2,7kOhm, otherwise the red LED will display an error message (Ri standard=12 kOhm); position Ri - see drawing

Input Circuit

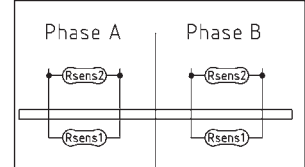


Step setting

Configuration:
The module is set to full step on delivery

Motor	Br.1	Br. 2
1/1 step	X	X
1/2 step	X	
1/4 step		X
1/8 step		

Current Setting



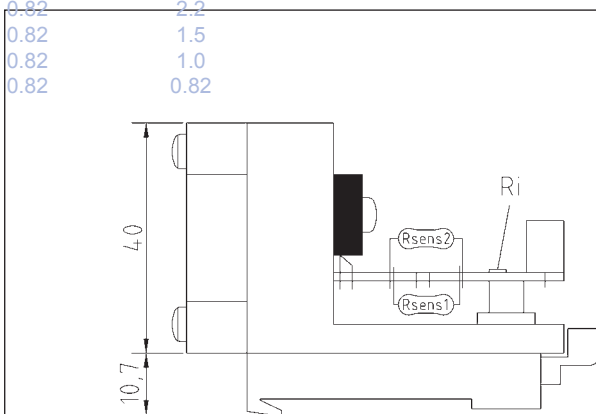
Order Code: SMC 42-□-□

Phase Current e.g. 0.8 = 0.8 A/phase

Type of connection terminals 1-8:

- 1 = screw -type (standard)
- 2 = screw-type plug-in

0.82	2.2
0.82	1.5
0.82	1.0
0.82	0.82



Motor Connection: Standard for JST-Plug 04NR-E4K

