Closed loop positioning controller with encoder input, SMCI35



When the SMCl35 is delivered, it is preconfigured to clock direction mode. Connection to the PC is not necessary. The phase current can be set in 10% steps on a DIP switch (10% = 400mA, max. 150% = 6A). The inputs for the clock, direction and enable signal are already preconfigured on the X4 connector. The step mode can only be changed via software. Full step is preset. Sinusoidal commutation, however, means extremely smooth running and very good performance of the stepper motor is already achieved in the full step.

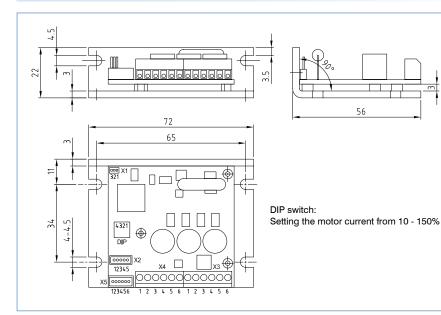
DC 24 - 48 V

Technical data

Operating voltage: Phase current: Interface: Operating mode: Step resolution: Step frequency:

Inputs: Outputs: Position monitoring: Current reduction: Protection circuit: Temperature range: max. 6 A TTL-RS232 (3.3 V) Position, speed, flag position, clock direction, analog, joystick 1/1, 1/2, 1/4, 1/5, 1/8, 1/10, 1/32, 1/64 16 kHz with a full step, corresponding multiples with a microstep (e.g. up to 1 MHz with 1/64) 6 digital inputs (TTL), 1 analog input +10/–10 V 3 digital outputs (TTL) Yes, depending on the encoder Adjustable 0 - 100% Overvoltage, undervoltage and heatsink temperature > 80 °C 0 to +40 °C

Outline drawing (mm)



Communication (X1)

| Pin | Function* |
|-----|-----------|
| 1 | GND |
| 2 | тх |
| 3 | RX |

Encoder (X2) JST-ZHR 5

| Pin | Function* | |
|-----|-----------|--|
| 1 | GND | |
| 2 | CH-B | |
| 3 | INDEX | |
| 4 | CH-A | |
| 5 | +5 V | |

Motor and supply (X3)

| Pin | Function* |
|-----|---------------|
| 1 | Motor coil A |
| 2 | Motor coil A\ |
| 3 | Motor coil B |
| 4 | Motor coil B\ |
| 5 | UB 24-48 V |
| 6 | GND |

Inputs/Outputs (X4)

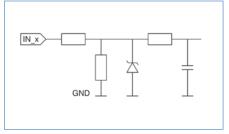
| Pin | Function* | Function on delivery |
|-----|-------------|----------------------|
| 1 | Output 1 | |
| 2 | Input 6 | CLOCK |
| 3 | Input 5 | DIRECTION |
| 4 | Input 4 | ENABLE |
| 5 | Analog in 1 | |
| 6 | GND | |

Inputs/Outputs (X5) JST-ZHR 6

| Pin | Function* | |
|-----|-----------|--|
| 1 | GND | |
| 2 | Output 3 | |
| 3 | Output 2 | |
| 4 | Input 3 | |
| 5 | Input 2 | |
| 6 | Input 1 | |

* from the perspective of the connected controller

Input circuits



Order number

SMCI35

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