Nanotec[®]

Closed loop motor controller with encoder input, SMCI33



12 to 48 V DC

Technical data

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

Inputs: Outputs: Position monitoring: Current reduction: Protective circuit: Temperature range: Nominal value 2 A, can be set up to a max. 3 A / phase RS485 or USB Position, speed, flag position, cycle direction, analog, joystick 1/1, 1/2, 1/4, 1/5, 1/8, 1/10, 1/32, 1/64, adaptive (1/128) 0 to 50 kHz in cycle/direction mode, 0 to 25 kHz in all other modes 6 opto-coupler inputs (5 to 24 V) 3 open collectors, 30 V / 30 mA max. Automatic error correction up to 0.9° can be set 0 to 100% Overvoltage, undervoltage and heat sink temperature > 80 °C 0 to +40 °C

* Phoenix connectors are included in the delivery.

Caution: Always use a back-up capacitor for the operating voltage of the control system. This is to be placed as close as possible to the control system. Control systems up to 4 A require a 4700µF capacitor, and control systems up to 10 A require a 10,000µF capacitor. Otherwise there is a danger of destruction of the control system.

Input circuits



Outline drawing (mm)



Inputs/outputs (X1)

Pin	Function
1	Input1
2	Input2
3	Input3
4	Input4
5	Input5
6	Input6
7	Com
8	Output 1
9	Output 2
10	Output 3
11	Analog In
12	GND

Encoder (X2)

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

Motor connection (X3)

Pin	Function
1	Motor coil A
2	Motor coil A\
3	Motor coil B\
4	Motor coil B

Supply (X4)

Function
UB24-48V
GND

SMCI33-2: RS485 (X5)

Pin	Function
1	NC
2	RX+
3	+5 V
4	TX+
5	N.C.
6	N.C.
7	RX-
8	GND
9	TX-

SMCI33-1: USB (X5) USB standard

Order identifier

