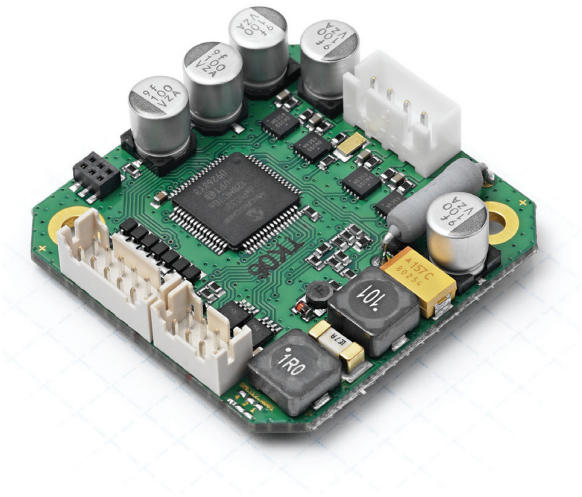
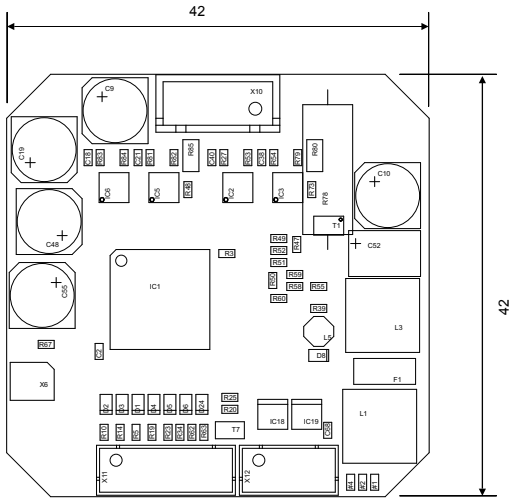
SMCI12 positioning control



Technical data

Operating voltage:	12-24 V DC
Phase current:	max. 2.7 A
Interface:	RS485 4-wire or CANopen
Operating mode:	RS485: Position, speed, flag position, clock direction, analog, joystick CANopen: Position, speed, reference run, interpolated position (according to CAN standard DS402)
Step resolution:	1/1, 1/2, 1/4, 1/5, 1/8, 1/10, 1/32, 1/64
Step frequency:	16 kHz with a full step, corresponding multiples with a microstep (e.g. up to 1 MHz with 1/64)
Inputs:	6 digital inputs (TTL), 1 analog input +10/–10 V
Outputs:	3 open collector, 24 V / 0.5 A max.
Current reduction:	Adjustable 0 - 150%
Protection circuit:	Overvoltage, undervoltage and heatsink temperature > 80 °C
Temperature range:	0 to + 40 °C

Outline drawing (mm)



Inputs/Outputs (X11)

Pin	Function*
1	GND
2	Input 1
3	Input 2
4	Input 3
5	Input 4
6	Input 5
7	Input 6
8	Analog In
9	Output 1
10	Output 2
11	Output 3
12	GND

Supply and communication (X12)

Pin	Function* RS485	CANopen
1	GND	GND
2	GND	GND
3	RX-	n.c.
4	RX+	n.c.
5	TX-	CAN low (CAN -)
6	TX+	CAN high (CAN +)
7	GND	GND
8	UB 12-24VDC	UB 12-24VDC

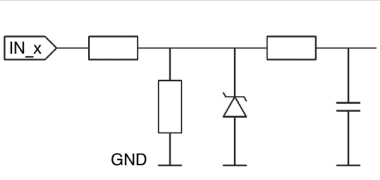
Motor connection (X3)

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

* from the perspective of the connected controller

Connection cable for motors with 6 or 8 connections:
ZK-XHP-4-300

Input circuits



Order number

RS485: SMCI12
CANopen: SMCI12-3