Closed loop positioning controller with encoder input, SMCI47-S



DC 24 to 48 V

Technical data

Operating voltage: Phase current: Interface: Operating mode:

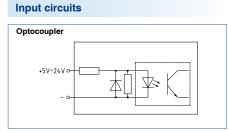
Step resolution: Step frequency:

Inputs: Outputs:

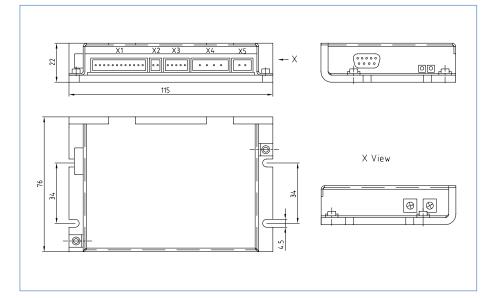
Position monitoring: Current drop: Protection circuit: Temperature range: Nominal current 7.5A, adjustable to max. 11.25 A/phase RS485, CAN Position, speed, flag position, clock direction, analog, joystick CANOPEN: Profile position; Homing mode; Velocity mode 1/1, 1/2, 1/4, 1/5, 1/8, 1/10, 1/32, adaptive (1/128) 0 to 50kHz in the clock/direction mode, 0 to 25 kHz in all other modes 6 optocoupler inputs: (5V to 24 V) 3 transistor outputs (open collector) 1 output for brake mechanism Automatic error correction up to 0.9° Adjustable 0- 100% Overvoltage, undervoltage and heatsink temperature > 80 °C 0 to + 40°C

* Phoenix connectors are included in the delivery.

Note: A charging capacitor of at least 4,700 µF (Z-K4700/50) must be provided on the supply voltage so that the admissible voltage is not exceeded during the braking process.



Outline drawing (mm)



Inputs/Outputs (X1)

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

Brake (X2)

Pin	Function
1	Brake connection:
2	GND

Encoder (X3)

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

Motor connection (X4)

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

Supply (X5)

Pin	Function	
1	UB24-48V	
2	GND	

SMCI47-S-2: CAN (X6)

Pin	Function
1	NC
2	CAN low (CAN-)
3	CAN Ground (internally connected with pin 6)
4	NC
5	Shield
6	CAN Ground (internally connected with pin 3)
7	CAN high (CAN+)
8	NC
9	Supply Vcc to 30V (used for safety feature)

Order number

SMC147-S- ()	
2= RS485 3= CANOPEN	