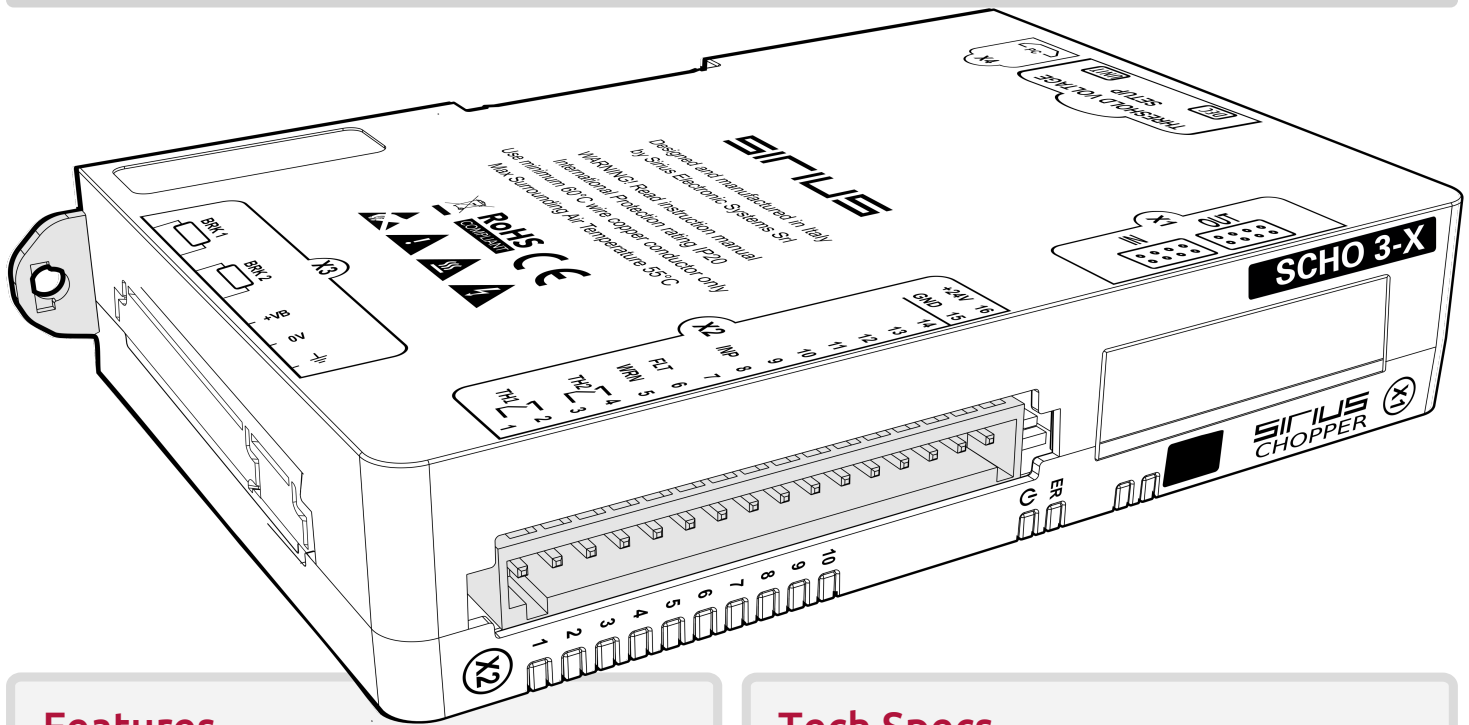




Features

Industrial grade master chopper powered at logic 24Vdc

Configurable breakdown voltage selectable with flat screwdriver on case at unit and decade rotary switch

Suited to prevent overvoltage at battery terminals can be used to absorb back fm in all regeneration system

Bus voltage allowed from 18Vdc to 48Vdc

Each channel can flow 2A continuously or 5A for 1 second

Enhanced damage protection improved by I²t estimation derived from power resistors data entered during setup and available thermistor input

Sirius design stand alone chopper to facilitate small power overvoltage dissipation system with integrated heatsink and resistor

Software check both configurations data and on board feedback information to signal status at led bar

Stand alone Chopper:
SCH03-5 (50W, fixed 10Ω resistor mounted on case)¹

¹ 50W resistor exceed the standard case dimensions and it isn't represented in images and drawings

Tech Specs

Master logic

Power Logic input	24Vdc ± 10%
Digital IN	1 @ 24V 5mA P
Digital OUT	2 @ 24V 2A P, protected
USB Ports	1 USB 2.0 type B micro for configuration
Reverse polarity	Logic circuit, diode

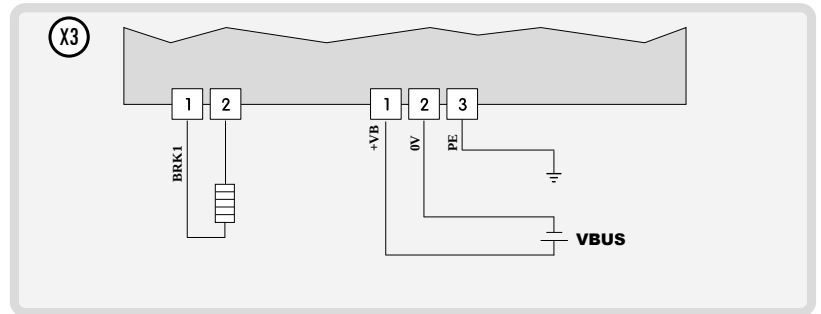
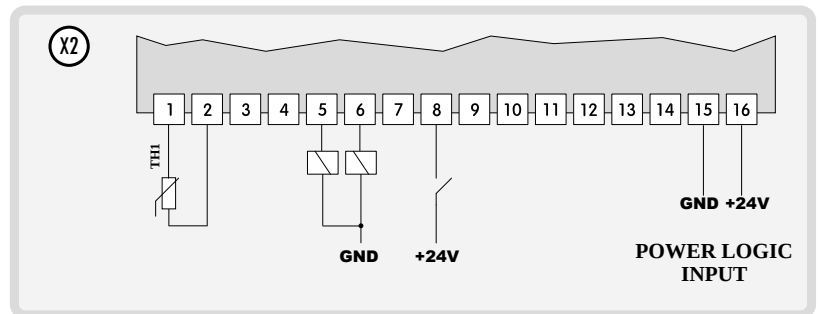
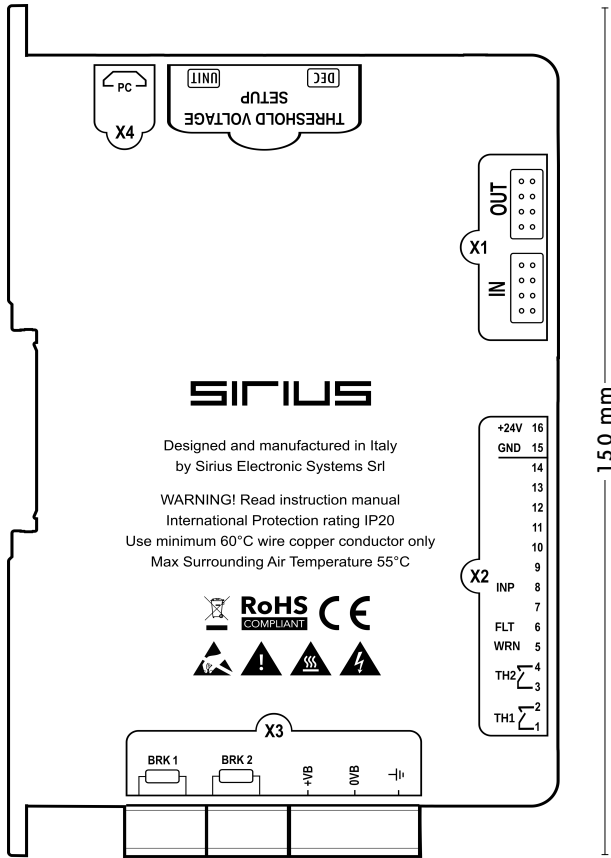
Chopper characteristics

Operating Voltage	18÷48Vdc
Current peak limit (1s)	5A
Continuous Current	2A
Integrated capacitors	100uF
Current limiter	Hardware + Software limiter
Voltage Threshold Setup	Input from USB
I ² t	Implemented on brake resistor data input
Overcurrent time protection	10 ms monostable forced off time
Control	PI regulator

General characteristics

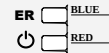
Storage C°	-40 to +85 °C
Operating C°	0 to +55 °C
Humidity	0 to 95%, non condensing
Dimensions	150 x 91 x 27 mm
Weight	178 g
Mounting	2x M3 screws or TS 35 DIN rail

SCH03-5 Chopper Stand Alone device

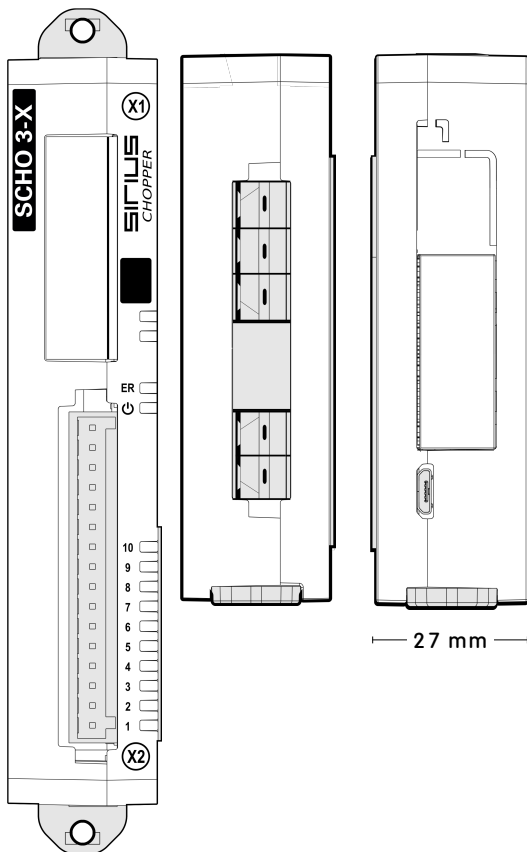


LED SIGNALATION

10	NC
9	NC
8	YELLOW INPUT P ON
7	GREEN VB PRESENCE
6	BLUE BRK1 CHOPPERING
5	YELLOW BRK1 RESISTOR OK + VB
4	RED BRK1 OVERCURRENT
3	NC
2	NC
1	NC



- RED blink + BLUE off : WARNING
- RED fix + BLUE off : FAULT
- RED off + BLUE blink : OK



10Ω (50W) mounted resistor dimension

