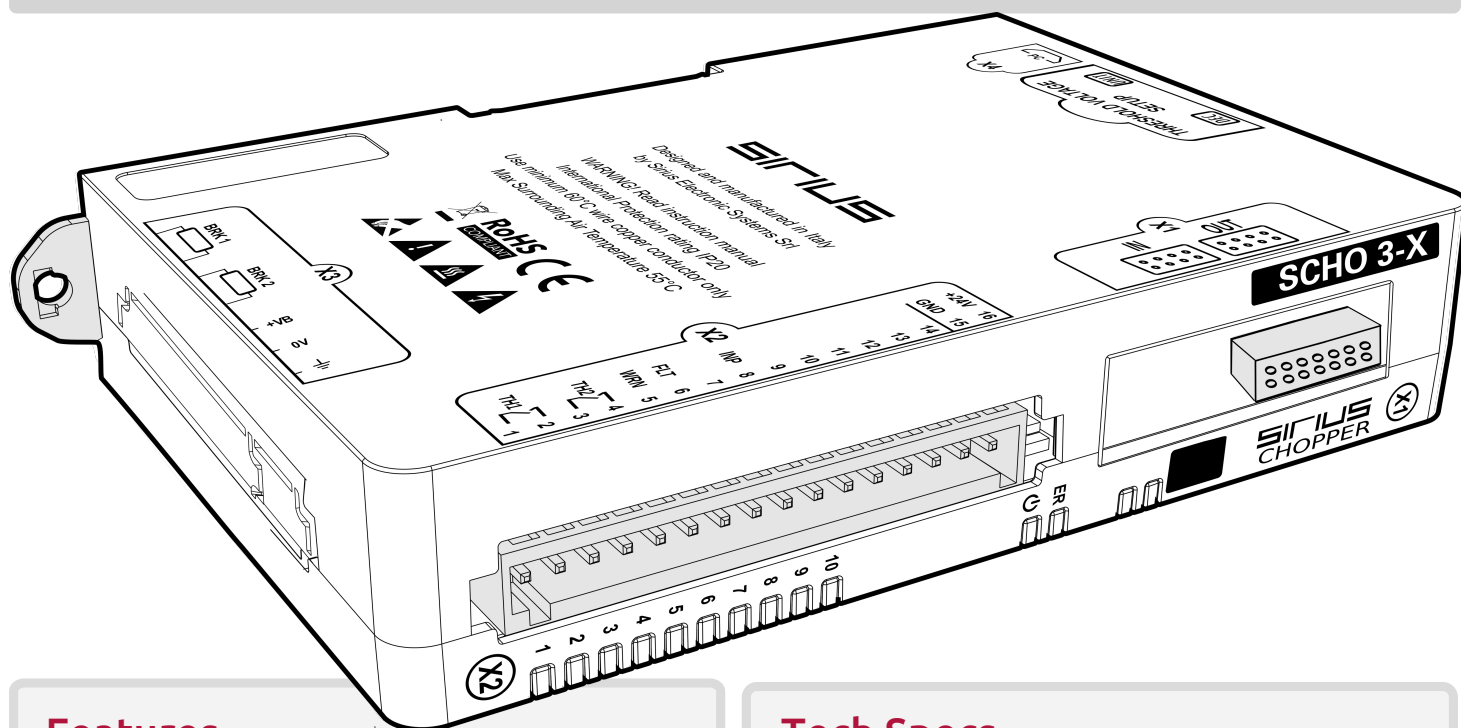




Features

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 80Vdc

Each channel can flow 15A continuously or 50A for 1 second

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

Sirius design chopper master-slave architecture to improve a increasing power dissipation system chaining one to three controlled slaves

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

To shape chopper system capability there various board choice:

- SCH03-1 (master, 1CH)
- SCH03-2 (master, 2CH)

Tech Specs

Master logic

Power Logic input	24Vdc $\pm$ 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

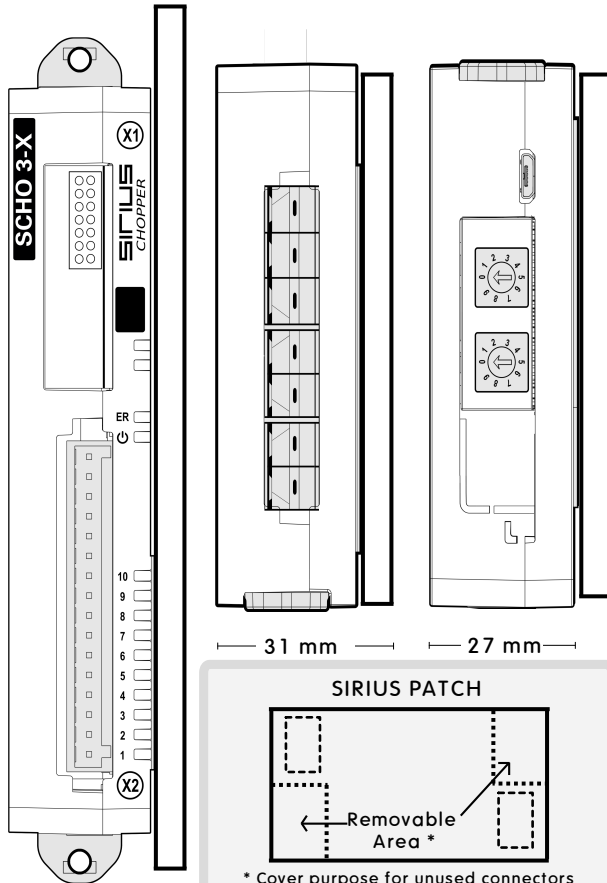
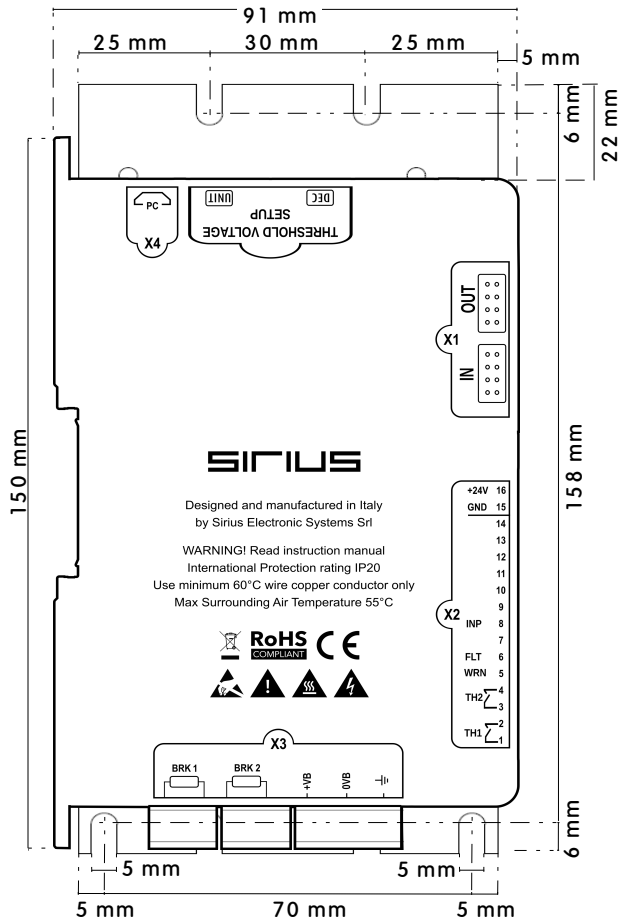
Chopper characteristics

Operating Voltage	18÷56 Vdc
Voltage peak allowed	80 Vdc
Current peak limit (1s)	50A/CH
Continuous Current	20A/CH @ Ta = 20° or 15A/CH @ Ta = 40°
Channel / Device	Up to 2
Max Slave for single Master	Up to 3
Max Current full system	120A (400A peak)
Integrated capacitors	100uF/CH
Current limiter	Hardware + Software limiter (on master)
Voltage Threshold Setup	Decade and Unit rotary switches (on master)
I ² t	Implemented on brake resistor data input (on master)
Overcurrent time protection	10 ms monostable forced off time
Min Resistor	1Ω/CH
Control	PI regulator

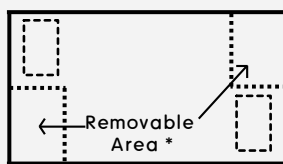
General characteristics

Storage C°	-40 to +85 °C
Operating C°	0 to +55 °C
Humidity	0 to 95%, non condensing
Dimensions	150 x 91 x 34 mm
Weight	178 g + 142g heatsink plate
Mounting	2x M3 screws or TS 35 DIN rail
Max wire section	4 mm

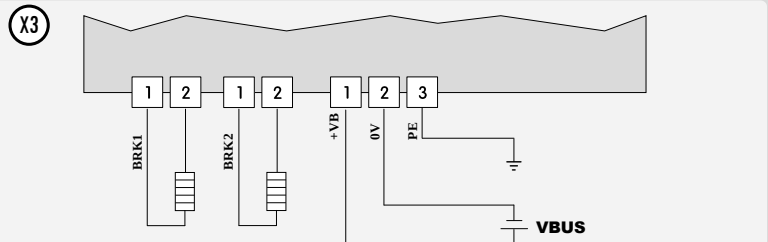
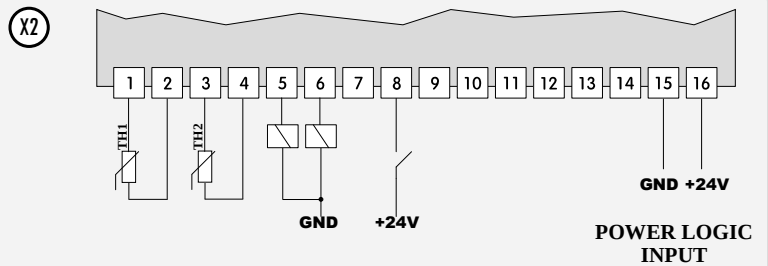
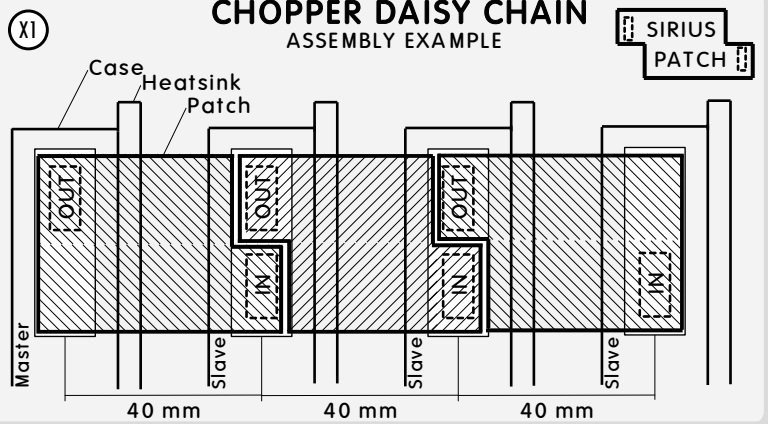
SCH03-1/2 Chopper Master devices



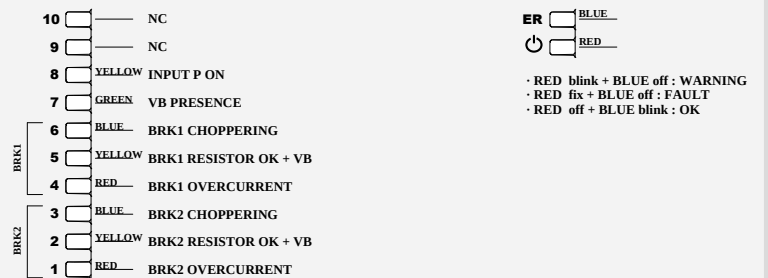
SIRIUS PATCH



* Cover purpose for unused connectors



LED SIGNALATION



THRESHOLD VOLTAGE SETUP

