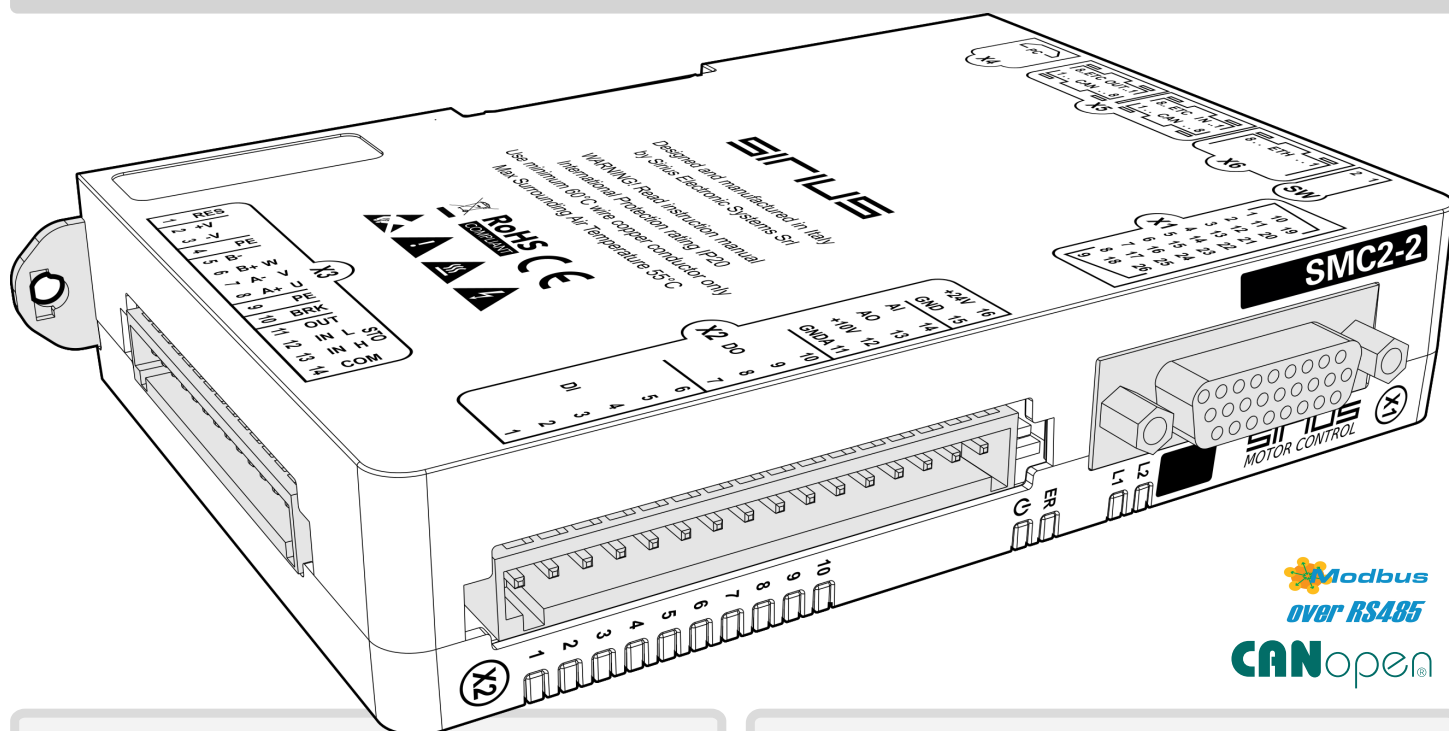




Features

Industrial grade motor driver powered up to 100Vdc and 24V logic

21A continuous and 30A peak output. Current is limited internally to prevent any damage

Communicates with any industrial computer board or PLC via CANopen or RS485 via two RJ45 pass-through ports to allow concatenation using standard UTP ethernet patches or RJ45 ethernet connection

Drives any brushless motor using feedbacks provided by different source like Halls and TTL SE

Equipped with built-in safety, fully featured motion controller

Operates as a stand-alone device or communicate via advanced networking as part of real-time multi-axis system

Programmable using IEC-61131-3 code: it's easy to set it up and tune via DeviceManager software

Operates as Motion Control Device under the DSP-402 protocol of the CANopen DS-301 application layer. DSP-402 supported modes include: Position profile, Velocity profile, Torque profile, Interpolated Position Mode (PVT) and Homing

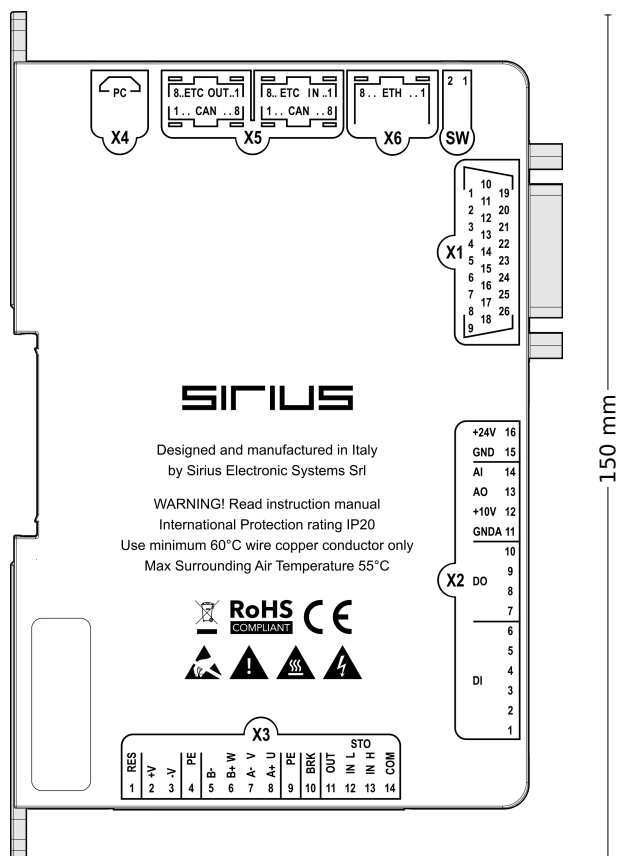
It conforms to Safety Integrity Level 3 using both PLC or TTL connection

Tech Specs

Logic supply	24Vdc $\pm$ 20%
Digital IN	6 @ 24V 10mA (4.7us RC)
Digital OUT	4 @ 24V 600mA PNP
Encoder IN	1
Hall Sensors	1
PT100 IN	1
Analog IN	1 @ 0-10V (12 bit resolution)
RS485 Ports	2 (Passthrough) optocoupled
CAN Ports	2 (Passthrough) optocoupled
USB Ports	1 USB 2.0 type B for configuration and VCOM
STO current out	30mA (max 50mA), NPN, unprotected
STO	Safety Integrity Level 3 - PLC or TTL connection
Bridges input	19,2÷100Vdc
Motor OUT	1 (2 Voice-Coil Motors)
Current OUT	21A
Peak current	30A
Current limiter	Fuse + Software limiter
Voltage limiter	Vmin / Vmax voltage comparator
Short circuit	Logic circuit, diode
Reverse polarity	Logic circuit, diode
I ² t	Continuous current
Storage C°	-40 to +85 °C
Operating C°	0 to +55 °C
Humidity	0 to 95%, non condensing
Dimensions	150 x 97.5 x 27 mm
Weight	215 g
Mounting	2x M3 screws or TS 35 DIN rail
Heatsink	Finned

SMC2-2BD031 100V, Stepper/Brushless/Voice-Coil Motor Control, CANopen®

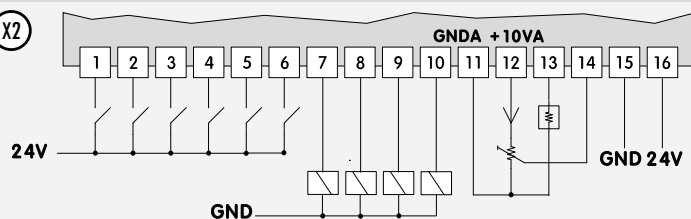
Rev 2 2026/05/19



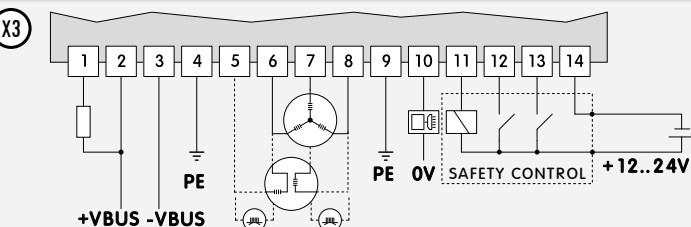
X1

POWER		FEEDBACK 1		FEEDBACK 1	
PIN	POWER	PIN		PIN	
1	VBATT (out)	16	HALL_C	4	#SA
2,15	+5V (out)	17	HALL_B	5	SA
7,8,12	GND	18	HALL_A	6	N.C.
9	+5V_SENSE	25	PTC+	13	#SB
CASE	SHIELD	26	PTC-	14	SB
				23	SC
				24	#SC

X2

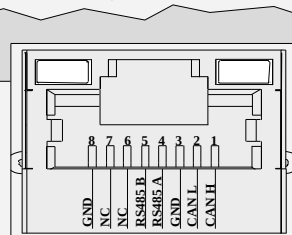


X3

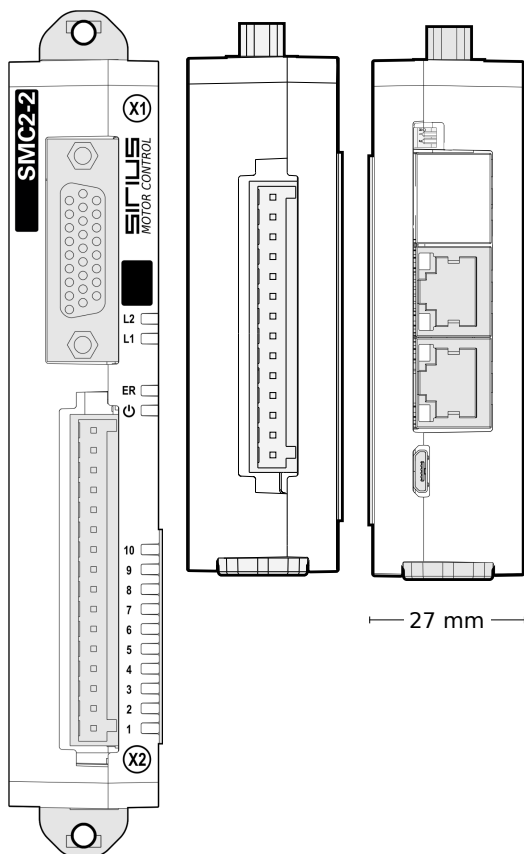
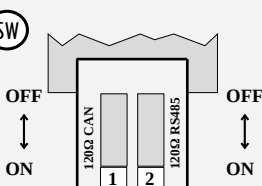


X5

CAN/RS485 (2x RJ45 standard)



SW



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Rev 2 2026/05/19