Surge Prot M H Surge Protection Module

Product reference

Part No.	5100421-02A
Manufacturer	Consilium / Salwico
Model	Surge Prot M H



Key product facts

01 · Operating voltage range
19-30 V DC

Product overview

Surge protection module with three independently usable functions: protected Backbone Bus Internal power inputs, a Backbone Bus External RS485 repeater terminal board and short-circuit-protected Control/Repeater outputs.

Key features

- The manufacturer lists TS1000 and CFD500 T.
- Use where electrical isolation between devices is not required; the protected outputs are not supervised.
- The source PSU2 OUT no-light diagnostic repeats PSU1/F101; confirm that diagnostic with the manufacturer before troubleshooting.
- Historical standard references do not establish current certification.

Installation & compatibility

- Mount horizontally on 35 mm DIN rail and configure the built-in 120 ohm BBE/BBI termination using S101/S102.
- Keep the original three-page 2023 document for complete connector, indicator and mounting diagrams.

Technical specifications

Manufacturer Article Number	5100421-02A	Manufacturer-listed systems	TS1000; CFD500 T
Operating voltage range	19-30 V DC	Functional scope	Surge-protected BBI power inputs; BBE RS485 repeater terminal board; electronically short-circuit-protected Control/Repeater outputs
Max. supply current (PSU1 IN / PSU2 IN)	8 A + 8 A	Use / supervision limits	Functions may be used together or individually; for applications without an electrical-isolation requirement between devices. Protected Control/Repeater output is not supervised
Max. load current (PSU1 OUT / PSU2 OUT)	0.7 A + 0.7 A	RS485 termination	Built-in 120 ohm terminators; follow Installation Manual for network examples and recommendations
Quiescent current consumption (at 24 V)	42 mA	BBE termination switches	S101 pole 1: BBE-1; pole 2: BBE-2. ON activates termination; OFF deactivates
Cable terminals	2.5 mm²	BBI termination switches	S102 pole 1: BBI-1; pole 2: BBI-2. ON activates termination; OFF deactivates
Operating temperature range	-40 °C to +70 °C (OT4)	PSU connectors	PSU1: 11 IN 8A+, 12 OUT 0.7A+, 13 minus. PSU2: 21 IN 8A+, 22 OUT 0.7A+, 23 minus
Switch-on extended operating temperature	+15 °C during 10 min (ST1)	BBE / BBU connectors	BBE-1: 31 D+, 32 D-; BBU: 33 positive. BBE-2: 41 D+, 42 D-; 43 ground
Temperature classes according to	EN 50155:2017	Mounting	Mount on a horizontal 35 mm DIN rail
Weight (with housing)	115 g ± 5%	Dimensions	24 mm width; 99 mm height; 114 mm depth (original drawing also marks 18 mm and 7 mm subdimensions)
Spare part number (without housing)	5100420-00A	Status indicators	PSU IN/OUT and BBE Tx/Rx status shown; green indicates OK. See original indicator table for fuse and overload diagnostics
Fuse F101/F102	10A Fast-Acting		