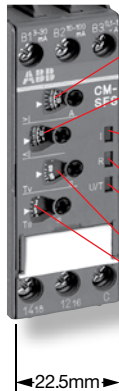


Current Window Monitoring Relay

CM-SFS.2 Series

Single-Phase AC/DC DIN Rail Mounting



- 1 Trip Point Adjustment for Overcurrent
- 2 Threshold Value Adjustment for Undercurrent
- 3 I: Red LED - Over/Under Current
- 4 R: Yellow LED - Relay Status
- 5 U/T: Green LED - Input Voltage, Timing
- 6 Trip Delay Adjustment
- 7 Start-up Delay Adjustment
- 8 DIP switches (see Functions)
- 9 Compact Package

22.5mm



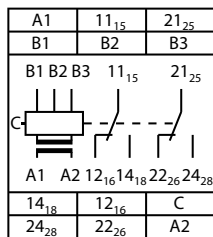
7

- 3 mA ... 15 A Current Monitoring in 6 Ranges
- Monitoring of DC and AC Currents
- RMS Measuring
- Each Device Includes 3 Measuring Ranges
- Over and Under Current Monitoring
- ON or OFF Delay Selectable
- Selectable Normally Open or Normally Closed Output
- Latching Function Selectable
- Adjustable Trip Points for I_{min} and I_{max}
- Adjustable Hysteresis of 5 %
- Start-up delay T_S Adjustable 0; 0.1-30 s
- Adjustable Trip Delay 0.1-30 s
- Select 2 SPDT (c/o) Transfer Together or Separate Outputs for Over and Under Current
- 22.5 mm width
- 3 LEDs for status indication

Complete Product Details:
<http://www.ssac.com/pp1.htm>



Connection



A1-A2	Input Voltage
B1-C	Measuring Range 1: 3-30 mA or 0.3-1.5 A
B2-C	Measuring Range 2: 10-100 mA or 1-5 A
B3-C	Measuring Range 3: 0.1-1 A or 3-15 A
11 ₁₅ - 12 ₁₆ / 14 ₁₈	Output Contacts
21 ₁₆ - 22 ₂₆ / 24 ₂₈	

Position	4	3	2	1
ON ↑	2x1 c/o		closed	
OFF	1x2 c/o		open	

DIP Switch Functions

- 1 - ON = OFF Delay (Function Shown)
- OFF = ON Delay
- 2 - ON Normally Energized
- OFF Normally De-energized

- 3 - ON Latching Function Activated
- OFF Latching Function Not Activated
- 4 - ON = DPDT (2 c/o) Both Relays Transfer at the Same Time
- OFF = 1 SPDT (c/o) Transfers on Overvoltage, 1 SPDT (c/o) Transfer on Undervoltage

Technical Data

Measuring Circuit	
Repeat Accuracy (constant parameters)	+/- 0.07% of full scale
Output	
AC12 (resistive) at 230 V	4 A
AC15 (inductive) at 230 V	3 A
Mechanical	
Dimensions W x H x D Inches (mm)	.89 x 3.93 x 3.07 in. (22.5 x 100 x 78 mm)
Mounting	35 mm DIN Rail, No Tools Required
Degree of Protection	Enclosure IP50 / Terminals IP20

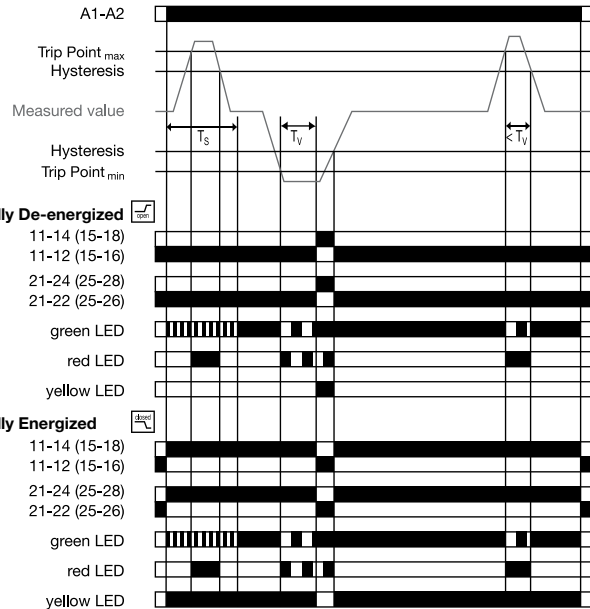
Ordering Table

Series	Part Number	Input Voltage - 50/60 Hz	Trip Delay T_v	Sensing Range	Output Form
CM-SFS.21	1SVR 430 760 R0400	24-240 V AC/DC	Adjustable 0 or 0.1-30 s	3-30 mA; 10-100 mA; 0.1-1A	2 SPDT (2 c/o)
CM-SFS.22	1SVR 430 760 R0500			0.3-1.5 A; 1-5 A; 3-15 A	

The current window monitoring relays CM-SFS.2 can be used for the simultaneous monitoring of over and under current in single-phase AC and/or DC systems. A true RMS sensing method is used. The 2 SPDT (2 c/o) output relays can be set to transfer together or operate as separate outputs for over and under current. The current to be monitored is connected to terminals B1/B2/B3-C. Normally de-energized or normally energized output as well as an adjustable ON or OFF trip delays and a latching output after a fault trip, are selectable.

When the latching function is selected, the output relays remain latched until the input voltage is removed. (see On-Line Data Sheet for details)

Function



NOTE: See Data Sheet for A Complete Set of Function Diagrams