

# Current Monitoring Relays

## CM-SRS.1 and CM-SRS.2 Series

### Single-phase AC/DC DIN Rail Mounting

Current Monitors



CM-SRS.1



CM-SRS.2



- 1 Hysteresis Adjustment
- 2 Trip Point Adjustment
- 3 Adjustment of the Tripping Delay  $T_V$
- 4 I: Red LED - Over/Under Current
- 5 R: Yellow LED - Relay Status
- 6 U/T: Green LED Input Voltage, Timing
- 7 DIP Switches (see DIP switch functions)
- 8 Compact Package

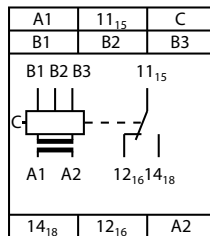
#### DIP Switch Functions

- 1 - ON Undercurrent Monitoring
- OFF Overcurrent Monitoring

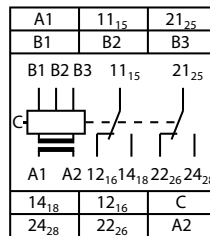
Position	2	1
ON ↑		
OFF		

#### Connection Diagrams

##### CM-SRS.1



##### CM-SRS.2

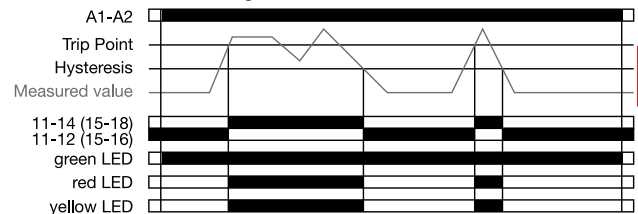


CM-SRS.1 and CM-SRS.2 current monitoring relays can be used for overcurrent or undercurrent monitoring in single-phase AC and/or DC systems. These devices feature monitoring of true RMS values. The current to be monitored (measured value) is applied to terminals B1/B2/B3-C.

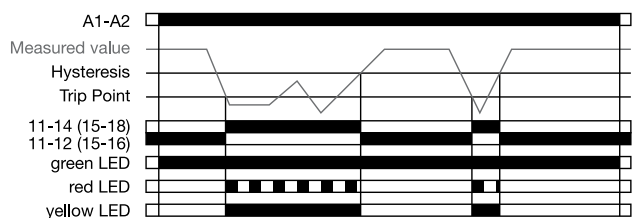
If the measured value exceeds or drops below the selected trip point value, the output relay(s) energize: on the CM-SRS.1 immediately, on the CM-SRS.2 after the trip delay  $T_V$ . The relay de-energizes when the current returns to an acceptable level. The adjustable hysteresis prevents rapid cycling.

The hysteresis is adjustable 3 to 30% of the threshold value.

#### Overcurrent monitoring



#### Undercurrent monitoring



Note: CM-SRS.2x has second set of SPDT contacts. See on-line data sheet for the complete function diagrams

- Monitoring of DC and AC Currents
- RMS Measuring
- Each Unit Includes 3 Measuring Ranges
- Selectable Over or Under Current Monitoring
- Adjustable Hysteresis 3 ... 30%
- CM-SRS.2: Adjustable Trip Delay 0.1 ... 30s
- Universal 24 ... 240V AC/DC Voltage
- CM-SRS.1: SPDT (c/o) Contacts
- CM-SRS.2: 2 SPDT (2 c/o) Contacts
- 22.5 mm Width
- 3 LEDs for Status Indication

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



#### Technical Data

<b>Measuring Circuit</b>	B1 / B2 / B3 - C
Repeat Accuracy (constant parameters)	+/- 0.07% of Full Scale
<b>Output</b>	
AC12 (resistive) at 230 V	4 A
AC15 (inductive) at 230 V	3 A
<b>Mechanical</b>	
Dimensions W x H x D	.89 x 3.93 x 3.07 in. (22.5 x 100 x 78 mm)
Mounting	35 mm DIN Rail Mounting, 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-SRS.11	1SVR 430 840 R0200	24-240 V AC/DC	Without	3-30 mA; 10-100 mA; 0.1-1A	SPDT (c/o)
	1SVR 430 841 R0200	110-130 V AC			
CM-SRS.12	1SVR 430 840 R0300	24-240 V AC/DC	Without	0.3-1.5 A; 1-5 A; 3-15 A	SPDT (c/o)
	1SVR 430 841 R0300	110-130 V AC			
CM-SRS.21	1SVR 430 840 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)
	1SVR 430 841 R0400	110-130 V AC			
CM-SRS.22	1SVR 430 840 R0500	24-240 V AC/DC	Adjustable 0 or 0.1-30 s	0.3-1.5 A; 1-5 A; 3-15 A	2 SPDT (2 c/o)
	1SVR 430 841 R0500	110-130 V AC			