

Voltage Window Monitoring Relays

CM-EFS.2 Series

Single Phase AC/DC, DIN Rail Mounting



- 3...600 V DC/AC Voltage Monitoring in 4 Ranges
- RMS Measuring
- Each Unit Includes 4 Measuring Ranges: 3-30 V; 6-60 V; 30-300 V; 60-600 V
- Over and Under Voltage Monitoring
- ON or OFF Delay Selectable ■ Selectable Normally Open or Normally Closed Output
- Selectable Latching Function
- Adjustable Trip Points for V_{min} and V
- Fixed Hysteresis of 5%
- Adjustable Trip Delay T_{v} 0.1-30 s
- Select 2 SPDT (c/o) to Transfer Together or Separate Outputs for Over and Under Voltage
- 22.5 mm Width
- 3 LEDs for Status Indication

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



Position

ON t

OFF

2x1 c/o

1x2 c/o

DIP Switch Functions

1 - ON = OFF Delay

- OFF = ON Delay

2 - ON Normally Energized

at the Same Time

OFF Normally De-energized

3 - ON Latching Function Activated

OFF Latching Function Not Activated

OFF 1 SPDT (c/o) Transfers on Overvoltage,

1 SPDT (c/o) Transfer on Undervoltage

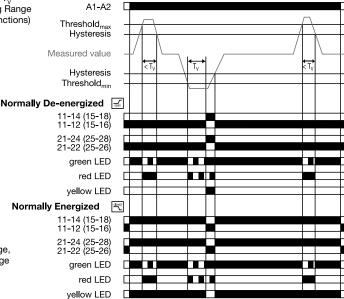
4 - ON DPDT (2 c/o) Both Relays Transfer

- 1 Trip Point Adjustment >U - undervoltage
- 2 Trip Point Adjustment >U - Overvoltage
- 3 U: Red LED Over / Under Voltage
- 4 R: Yellow LED Relay Status
- 5 U/T: Green LED -Input Voltage, Timing
- 6 Adjustable Trip Delay T
- Selectable Measuring Range DIP Switches (see functions)

The voltage window monitoring relay CM-EFS.2 can be used for the simultaneous monitoring of over (>U) and under (<U) voltages in singlephase 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 voltage. The voltage to be monitored (measured value) is applied to terminals B-C. Normally deenergized or normally energized operation as well as an adjustable ON or OFF trip delays can be selectable.

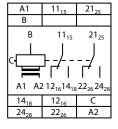
When the latching function is selected, after the output trips, it remains transferred until the input voltage is removed. See on-line data sheet for further details.

Function



See Data Sheet for A Complete Set of Function Diagrams

Connection



A1-A2	Input Voltage	
B-C	Measuring Range: 3-30 V; 6-60 V; 30-300 V; 60-600 V	
11 ₁₅ - 12 ₁₆ / 14 ₁₈	Output Contacts	
21 ₁₆ - 22 ₂₆ / 24 ₂₈		

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	.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	Adjustable Trip Delay T _v	Sensing Range	Output Form
CM-EFS.2	1SVR 430 750 R0400	24-240 V AC/DC	0 or 0.1-30 s	AC/DC: 3-30 V; 6-60 V 30-300 V; 60 600 V	SPDT (c/o)