# CM-EFS.2S



# **General Information**

Extended Product Type:	CM-EFS.2S
Product ID:	1SVR730750R0400
EAN:	4016779852128
Catalog Description:	CM-EFS.2S Voltage monitoring relay 2c/o, B-C=3-600VRMS, 24-240VAC/DC
Long Description:	The CM-EFS.2S is a single-functional voltage monitoring relay from the CM single-phase monitors range. This monitoring relay operates with a rated control supply voltage of 24 - 240 V AC / DC and has a 2 c/o (SPDT) output with contacts rated at 250 V / 4 A. It provides a RMS measuring principle for DC and AC voltages with 4 measuring ranges: 3-30 V, 6-60 V, 30-300 V and 60-600 V. The CM-EFS.2S offers window (over- and undervoltage) monitoring as well as selection of ON- or OFF-delay, open- or closed-circuit operating principle, with or without latching function. The output contacts can be configured as 1x2 c/o (SPDT) (common signal) or 2x1 c/o (SPDT) (separate signal for minimum and maximum thresholds) operation. The hysteresis is fixed at 5 % of the threshold value. The tripping delay and the start-up delay are adjustable over a range of instantaneous to 30 s (0, 0.1-30 s). A sealable transparent cover for protection against unauthorized changes is available as accessory. The device offers screw connection technology with double-chamber cage connection terminals.

### Categories

Products » Low Voltage Products and Systems » Control Products » Electronic Relays and Controls » Single Phase Monitors

# Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900
EAN:	4016779852128
Container Information	
Package Level 1 Width:	97 mm
Package Level 1 Height:	109 mm
Package Level 1 Length:	30 mm
Package Level 1 Gross Weight:	0.179 kg
Package Level 1 Units:	1 piece

#### Dimensions

Product Net Height: 85.6 mm   Product Net Weight: 0.157 kg	Product Net Depth:	103.7 mm
Product Net Weight: 0.157 kg	Product Net Height:	85.6 mm
	Product Net Weight:	0.157 kg
Product Net Width: 22.5 mm	Product Net Width:	22.5 mm

#### Technical

i echnical	
Measuring Range:	3 30 V 6 60 V 30 300 V 60 600 V
Rated Control Supply Voltage ( $U_s$ ):	24 240 V AC/DC
Rated Frequency (f):	50 Hz 60 Hz DC Hz
Output:	2 x 1 c/o or 1 x 2 c/o contacts; operating principle selectable
Time Range:	0 s or 0.1-30 s tripping delay (ON or OFF)
Terminal Type:	Screw Terminals
Rated Operational Current AC-12 (I <sub>e</sub> ):	(230 V) 4 A
Rated Operational Current AC-15 (I <sub>e</sub> ):	(230 V) 3 A
Rated Operational Current DC-12 $(I_e)$ :	(24 V) 4 A
Rated Operational Current DC-13 (I <sub>e</sub> ):	(24 V) 2 A
Minimum Switching Capacity:	24 V 10 mA
Rated Insulation Voltage (U <sub>i</sub> ):	Measuring Circuit / Output Circuit 600 V Output Circuit 1 / Output Circuit 2 250 V Supply Circuit / Measuring Circuit 600 V

	Supply Circuit / Output Circuit 250 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> ):	Measuring Circuit / Output Circuit 6 kV Output Circuit 1 / Output Circuit 2 4 kV Supply Circuit / Measuring Circuit 6 kV Supply Circuit / Output Circuit 4 kV
Degree of Protection:	Housing IP50 Terminals IP20
Overvoltage Category:	III
Pollution Degree:	3
Short-Circuit Protective Devices:	Output Circuit NC - F Type Fuses 10 A Output Circuit NO - F Type Fuses 10 A
Electrical Durability:	AC-12 100000 cycle
Mechanical Durability:	3000000 cycle
Connecting Capacity:	Flexible with Ferrule 1x $0.5 \dots 2.5 \text{ mm}^2$ Flexible with Ferrule 2x $0.5 \dots 1.5 \text{ mm}^2$ Flexible with Insulated Ferrule 1x $0.5 \dots 2.5 \text{ mm}^2$ Flexible with Insulated Ferrule 2x $0.5 \dots 1.5 \text{ mm}^2$ Flexible 1x $0.5 \dots 2.5 \text{ mm}^2$ Flexible 2x $0.5 \dots 1.5 \text{ mm}^2$ Rigid 1x $0.5 \dots 4 \text{ mm}^2$ Rigid 2x $0.5 \dots 2.5 \text{ mm}^2$
Tightening Torque:	0.6 0.8 N·m
Wire Stripping Length:	8 mm
Mounting Position:	Any
Mounting on DIN Rail:	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Standards:	EN 50178 IEC/EN 60255-27 IEC/EN 61000-6-2 IEC/EN 61000-6-3 UL 508 CAN/CSA C22.2 No.14
Function:	Over- and undervoltage monitoring
Environmental	
RoHS Status:	Following EU Directive 2011/65/EC
Ambient Air Temperature:	Operation -20 +60 °C Storage -40 +85 °C
T	
Technical UL/CSA	P200
Contact Rating UL/CSA: Connecting Capacity UL/CSA:	B300
Connecting Capacity OL/COA.	Flexible 1x 18-14 AWG Flexible 2x 18-16 AWG Rigid 1x 20-12 AWG Rigid 2x 20-14 AWG
Tightening Torque UL/CSA:	7.08 in·lb
Maximum Operating Voltage	
	Output Circuit 300 V AC
UL/CSA:	Output Circuit 300 V AC
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