

# CM-EFS.2P



CM-EFS.2P Voltage monitoring relay 2c/o, B-C=3-600VRMS, 24-240VAC/DC

## General Information

Extended Product Type	CM-EFS.2P
Product ID	1SVR740750R0400
EAN	4016779876513
Catalog Description	CM-EFS.2P Voltage monitoring relay 2c/o, B-C=3-600VRMS, 24-240VAC/DC
Long Description	<p>The CM-EFS.2P 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.2P 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 maintenance free Easy Connect Technology with push-in terminals.</p>

## Ordering

EAN	4016779876513
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

## Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	97 mm
Package Level 1 Height	109 mm
Package Level 1 Depth / Length	30 mm
Package Level 1 Gross Weight	0.168 kg
Package Level 1 EAN	4016779876513

## Dimensions

Product Net Width	22.5 mm
Product Net Depth / Length	103.7 mm
Product Net Height	85.6 mm
Product Net Weight	0.146 kg

## Technical

Function	Over- and undervoltage monitoring
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
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	Screwless Terminals
Rated Operational Current AC-12 ( $I_{\theta}$ )	(230 V) 4 A
Rated Operational Current AC-15 ( $I_{\theta}$ )	(230 V) 3 A
Rated Operational Current DC-12 ( $I_{\theta}$ )	(24 V) 4 A
Rated Operational Current DC-13 ( $I_{\theta}$ )	(24 V) 2 A
Minimum Switching Capacity	24 V 10 mA
Rated Insulation Voltage ( $U_i$ )	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 ( $U_{imp}$ )	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 6 A Output Circuit NO - F Type Fuses 10 A
Electrical Durability	AC-12 100000 cycle
Mechanical Durability	30000000 cycle
Connecting Capacity	Flexible with Ferrule 2x 0.5 ... 1.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.5 ... 1.5 mm <sup>2</sup> Flexible 2x 0.5 ... 1.5 mm <sup>2</sup> Rigid 2x 0.5 ... 1.5 mm <sup>2</sup>
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	CAN/CSA C22.2 No.14 EN 50178 EN 50581 IEC/EN 60255-27 IEC/EN 61000-6-2 IEC/EN 61000-6-3 UL 508

## Environmental

Ambient Air Temperature	Operation -20 ... +60 °C Storage -40 ... +85 °C
RoHS Status	Following EU Directive 2011/65/EU

## Technical UL/CSA

Maximum Operating Voltage UL/CSA	Output Circuit 300 V AC
Contact Rating UL/CSA	B300
Connecting Capacity UL/CSA	Flexible 2x 18-16 AWG Rigid 2x 20-16 AWG

### Certificates and Declarations (Document Number)

CB Certificate	CB_DK-28255-UL
CCC Certificate	CCC_2007010303243843.pdf
cULus Certificate	cULus508_20120203-E140448
Data Sheet, Technical Information	2CDC112174D0201
Declaration of Conformity - CE	1SVD981013-0001
DNV GL Certificate	DVN_GL_TAA0000292
EAC Certificate	EAC_RU_C-DE.ME77.B.03424
Environmental Information	1SAA981019-2401
Instructions and Manuals	1SVC730570M0000
RMRS Certificate	RMRS_1740020250
RoHS Information	1SVD981013-0001

### Classifications

Object Classification Code	B
ETIM 4	EC001438 - Voltage monitoring relay
ETIM 5	EC001438 - Voltage monitoring relay
ETIM 6	EC001438 - Voltage monitoring relay
ETIM 7	EC001438 - Voltage monitoring relay
eClass	7.0 27371801
UNSPSC	39121514
E-Number (Sweden)	3860639

### Categories

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

