

PRODUCT-DETAILS

CM-ESS.2S

CM-ESS.2S Voltage monitoring relay 2c/o, B-C=3-600VRMS, 220-240VAC



General Information

Extended Product Type	CM-ESS.2S
Product ID	1SVR730831R1400
EAN	4016779852210
Catalog Description	CM-ESS.2S Voltage monitoring relay 2c/o, B-C=3-600VRMS, 220-240VAC

Long Description

The CM-ESS.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 220 - 240 V AC 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 and works according to the open-circuit principle. The CM-ESS.2S is configurable for over- or undervoltage monitoring. The hysteresis is adjustable within a range of 3 to 30 % of the threshold value and the tripping delay is 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.

Ordering

EAN	4016779852210
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	2CDC112172D0201
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Dimensions

Product Net Width	22.5 mm
Product Net Depth / Length	103.7 mm
Product Net Height	85.6 mm
Product Net Weight	0.181 kg

Technical

Function	Over- or undervoltage monitoring
Measuring Range	3 ... 30 V 6 ... 60 V 30 ... 300 V 60 ... 600 V
Rated Control Supply Voltage (U _s)	220 ... 240 V AC
Output	2 c/o (SPDT) contacts
Time Range	0 s or 0.1 ... 30 s tripping delay (ON)
Terminal Type	Screw Terminals
Rated Operational Current AC-12 (I _e)	(230 V) 4 A
Rated Operational Current AC-15 (I _e)	(230 V) 3 A
Rated Operational Current DC-12 (I _e)	(24 V) 4 A
Rated Operational Current DC-13 (I _e)	(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 10 A Output Circuit NO - F Type Fuses 10 A
Electrical Durability	AC-12 100000 cycle
Mechanical Durability	30000000 cycle
Connecting Capacity	Flexible with Ferrule 1x 0.5 ... 2.5 mm ² Flexible with Ferrule 2x 0.5 ... 1.5 mm ² Flexible with Insulated Ferrule 1x 0.5 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.5 ... 1.5 mm ² Flexible 1x 0.5 ... 2.5 mm ² Flexible 2x 0.5 ... 1.5 mm ² Rigid 1x 0.5 ... 4 mm ² Rigid 2x 0.5 ... 2.5 mm ²
Tightening Torque	0.6 ... 0.8 N·m
Wire Stripping Length	8 mm
Recommended Screw Driver	Pozidriv 1 4.5 0.8 x 4
Mounting Position	1 ... 6

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

IEC/EN 63000

IEC/EN 60255-27

IEC/EN 61000-6-2

IEC/EN 61000-6-3

UL 508

Technical UL/CSAMaximum Operating
Voltage UL/CSA

Output Circuit 300 V AC

Contact Rating UL/CSA

B300

Connecting Capacity
UL/CSA

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

EnvironmentalAmbient Air
Temperature

Operation -20 ... +60 °C

Storage -40 ... +85 °C

RoHS Status

Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)

CB Certificate

CB_DK-28255-UL

CCC Certificate

CCC_2007010303243843.pdf

CQC Certificate

CQC2007010303243843

cULus Certificate

cULus508_20120203-E140448

Data Sheet, Technical
Information

2CDC112172D0201

Declaration of
Conformity - CCC

2020980303000196

Declaration of
Conformity - CE

1SVD981013-00

Declaration of
Conformity - UKCA

1SVD981013-10

DNV GL Certificate

DVN_GL_TAA0000292

EAC Certificate

EAC_RU_C-DE.ME77.B.03424

Instructions and
Manuals

1SVC730590M0000

RMRS Certificate

RMRS_1740020250

RoHS Information

1SVD981013-00

Container Information

Package Level 1 Units

box 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

0.204 kg

Package Level 1 EAN

4016779852210

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	V11.0 : 27371801
UNSPSC	39121514
E-Number (Finland)	2712252
E-Number (Sweden)	3860624

Categories

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

