

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.

Additional Information

Ambient Air Temperature:	Operation -20 ... +60 °C Storage -40 ... +85 °C
CB Certificate:	CB_DK-28255-UL
CCC Certificate:	CCC_2007010303243843.pdf
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
Connecting Capacity UL/CSA:	Flexible 1x 18-14 AWG Flexible 2x 18-16 AWG Rigid 1x 20-12 AWG Rigid 2x 20-14 AWG
Contact Rating UL/CSA:	B300
Country of Origin:	Germany (DE)
Customs Tariff Number:	85364900
Data Sheet, Technical Information:	2CDC112172D0201
Declaration of Conformity - CE:	1SVD981013-0001
Degree of Protection:	Housing IP50 Terminals IP20
E-nummer:	3860624
EAC Certificate:	EAC_RU_C-DE.ME77.B.01012
EAN:	4016779852210
EPLAN Catalog Tree:	Electrical engineering / Relays, contactors / General
ETIM 4:	EC001438 - Voltage monitoring relay
ETIM 5:	EC001438 - Voltage monitoring relay
ETIM 6:	EC001438 - Voltage monitoring relay
Electrical Durability:	AC-12 100000 cycle
Environmental Information:	1SAA981019-2401
Function:	Over- or undervoltage monitoring
GL Certificate:	GL_61765-14HH

Instructions and Manuals:	1SVC730590M0000
Invoice Description:	CM-ESS.2S Voltage monitoring relay 2c/o, B-C=3-600VRMS, 220-240VAC
Maximum Operating Voltage UL/CSA:	Output Circuit 300 V AC
Measuring Range:	3 ... 30 V 6 ... 60 V 30 ... 300 V 60 ... 600 V
Mechanical Durability:	30000000 cycle
Minimum Order Quantity:	1 piece
Minimum Switching Capacity:	24 V 10 mA
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
Non-Volatile Fault Storage:	No
Object Classification Code:	B
Output:	2 c/o (SPDT) contacts
Overvoltage Category:	III
Package Level 1 EAN:	4016779852210
Package Level 1 Gross Weight:	0.204 kg
Package Level 1 Height:	109 mm
Package Level 1 Length:	30 mm
Package Level 1 Units:	1 piece
Package Level 1 Width:	97 mm
Pollution Degree:	3
Power Loss:	Approximately 2 W
Product Main Type:	CM-ESS
Product Name:	Single Phase Monitors
Product Net Depth:	103.7 mm
Product Net Height:	85.6 mm
Product Net Weight:	0.181 kg
Product Net Width:	22.5 mm
RMRS Certificate:	RMRS_1740020250
Rated Control Supply Voltage (U_s):	220 ... 240 V AC
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
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 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
Regulatory Compliance Mark (RCM):	Yes
RoHS Date:	1146
RoHS Information:	1SVD981013-0001
RoHS Status:	Following EU Directive 2011/65/EC
Selling Unit of Measure:	piece
Short Circuit Protective Device:	Output Circuit MC - F Type Fuses 10 A

Short-Circuit Protective Devices: Output Circuit NC - F Type Fuses 10 A
Output Circuit NO - F Type Fuses 10 A

Standards: EN 50178
EN 50581
IEC/EN 60255-27
IEC/EN 61000-6-2
IEC/EN 61000-6-3
UL 508
CAN/CSA C22.2 No.14

Terminal Type: Screw Terminals

Tightening Torque: 0.6 ... 0.8 N·m

Tightening Torque UL/CSA: 7.08 in·lb

Time Range: 0 s or 0.1-30 s tripping delay (ON)

Wire Stripping Length: 8 mm

cULus Certificate: cULus508_20120203-E140448

eClass: 7.0 27371801

