

General Information

Extended Product Type:	CM-ESS.1S
Product ID:	1SVR730831R0300
EAN:	4016779852180
Catalog Description:	CM-ESS.1S Voltage monitoring relay 1c/o, B-C=3-600VRMS, 110-130VAC
Long Description:	The CM-ESS.1S 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 110 - 130 V AC and has a 1 c/o (SPDT) output contact rated at 250 V / 4 A. It provides a RMS measuring principle for DC and AC voltages with 4 measuring ranges: 3-30 V, 3-60 A, 30-300 V and 60-600 V and works according to the open-circuit principle. The CM-ESS.1S is configurable for over- or undervoltage monitoring, the hysteresis is adjustable within a range of 3 to 30 % of the threshold value. 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:	4016779852180

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:	0.186 kg
Package Level 1 Units:	1 piece

Dimensions

Product Net Depth:	103.7 mm
Product Net Height:	85.6 mm
Product Net Weight:	0.164 kg
Product Net Width:	22.5 mm

Technical

Measuring Range:	3 ... 30 V 6 ... 60 V 30 ... 300 V 60 ... 600 V
Rated Control Supply Voltage (U_s):	110 ... 130 V AC
Output:	1 c/o (SPDT) contact
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 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 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
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- or undervoltage monitoring

Environmental

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

Technical UL/CSA

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
Maximum Operating Voltage UL/CSA:	Output Circuit 300 V AC

Certificates and Declarations (Document Number)

Instructions and Manuals:	1SVC730590M0000
CB Certificate:	CB_DK-28255-UL
CCC Certificate:	CCC_2007010303243843.pdf
cULus Certificate:	cULus508_20120203-E140448
Data Sheet, Technical Information:	2CDC112171D0201
Declaration of Conformity - CE:	1SVD981013-0000
EAC Certificate:	EAC_RU_C-DE.ME77.B.01012
GL Certificate:	GL_61765-14HH
RMRS Certificate:	RMRS_12.04009.250
RoHS Information:	1SVD981001-4400

Classifications

E-nummer:	3860621
ETIM 4:	EC001438 - Voltage monitoring relay
ETIM 5:	EC001438 - Voltage monitoring relay
ETIM 6:	EC001438 - Voltage monitoring relay
eClass:	7.0 27371801
Object Classification Code:	B

