

PRODUCT-DETAILS

CM-ESS.MS

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



General Information

Extended Product Type	CM-ESS.MS
Product ID	1SVR730830R0500
EAN	4016779852173

Catalog Description

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

Long Description

The CM-ESS.MS is a multifunctional 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-ESS.MS offers selection of over- or undervoltage monitoring, open- or closed-circuit operating principle, with or without latching function. The hysteresis is adjustable within a range of 3 to 30 % 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.

Ordering

EAN	4016779852173
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information 2CDC112173D0201

Instructions and 1SVC730710M1000 Manuals

Dimensions	
Product Net Width	22.5 mm
Product Net Depth / Length	103.7 mm
Product Net Height	85.6 mm
Product Net Weight	0.154 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)	24 240 V AC/DC
Output	2 c/o (SPDT) contact; operating principle selectable
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 (Ui)	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 mm² Flexible with Ferrule 2x 0.5 1.5 mm² Flexible with Insulated Ferrule 1x 0.5 2.5 mm² Flexible with Insulated Ferrule 2x 0.5 1.5 mm² Flexible 1x 0.5 2.5 mm² Flexible 2x 0.5 1.5 mm² Rigid 1x 0.5 4 mm² Rigid 2x 0.5 2.5 mm²
Tightening Torque	0.6 0.8 N·m
Wire Stripping Length	8 mm
Recommended Screw Driver	Pozidriv 1 4.5
Mounting Position	0.8 x 4 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/CSA Maximum Operating	Output Circuit 300 V AC
Voltage UL/CSA	
Contact Rating UL/CSA	B300
Connecting Capacity	Flexible 1x 18-14 AWG
UL/CSA	Flexible 2x 18-16 AWG
	Rigid 1x 20-12 AWG
	Rigid 2x 20-14 AWG
Tightening Torque	7.08 in·lb
UL/CSA	

Environmental	
Ambient Air	Operation -20 +60 °C
Temperature	Storage -40 +85 °C
Maximum Operating Altitude Permissible	Without Derating 2000 m
RoHS Status	Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)	
CB Certificate	CB_DK-28255-UL
CQC Certificate	CQC2007010303243843
cULus Certificate	cULus508_20120203-E140448
Data Sheet, Technical Information	2CDC112173D0201
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	1SVC730710M1000
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	0.176 kg
Package Level 1 EAN	4016779852173

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Classifications	
Object Classification	В
Code	
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)	2712254
E-Number (Sweden)	3860620

Categories

 $Low\ Voltage\ Products\ \rightarrow\ Control\ Products\ \rightarrow\ Electronic\ Relays\ and\ Controls\ \rightarrow\ Single\ Phase\ Monitors$

