



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	<p>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.</p>
Ordering	
EAN	4016779852173
Minimum Order Quantity	1 piece

Customs Tariff Number

85364900

Popular Downloads

Data Sheet, Technical Information	2CDC112173D0201
Instructions and Manuals	1SVC730710M1000 1SVC730710M0000
CAD Dimensional Drawing	2CDC001079B0201

Dimensions

Product Net Width	22.5 mm
Product Net Height	85.6 mm
Product Net Depth / Length	103.7 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
Time Range	0 s or 0.1 ... 30 s tripping delay (ON)
Rated Control Supply Voltage (U <sub>s</sub> )	24 ... 240 V AC/DC
Output	2 c/o (SPDT) contact; operating principle selectable
Terminal Type	Screw Terminals
Rated Operational Current AC-12 (I <sub>e</sub> )	(230 V) 4 A
Rated Operational Current AC-15 (I <sub>e</sub> )	(230 V) 3 A
Rated Operational Current DC-12 (I <sub>e</sub> )	(24 V) 4 A
Rated Operational Current DC-13 (I <sub>e</sub> )	(24 V) 2 A
Minimum Switching Capacity	24 V 10 mA
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	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 <sub>i</sub> )	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
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	0.8 x 4
	4.5
	Pozidriv 1
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/CSA

Maximum 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
Pilot Duty UL/CSA	B300
Flammability According to UL94	V-0

Environmental

Ambient Air Temperature	Operation -20 ... +60 °C Storage -40 ... +85 °C
Maximum Operating Altitude Permissible	Without Derating 2000 m

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SVD981001-4501
RoHS Information	1SVD981001-4401
RoHS Status	Following EU Directive 2011/65/EU
Toxic Substances Control Act - TSCA	2CMT2023-006536

Circular Value

Certificates and Declarations	
CB Certificate	CB_DK-28255-UL
CQC Certificate	CQC2007010303243843
cULus Certificate	cULus508_20120203-E140448
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

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	97 mm
Package Level 1 Depth / Length	30 mm
Package Level 1 Height	109 mm
Package Level 1 Gross Weight	0.176 kg
Package Level 1 EAN	4016779852173

Classifications	
Object Classification Code	B
ETIM 7	EC001438 - Voltage monitoring relay
ETIM 8	EC001438 - Voltage monitoring relay
ETIM 9	EC001438 - Voltage monitoring relay
eClass	V11.0 : 27371801
UNSPSC	39122332
E-Number (Finland)	2712254
E-Number (Sweden)	3860620

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

Medium Voltage Products and Systems → Service → Spares and Consumables → Parts → All Spare Parts (Relays-SWG-CB)

