

PRODUCT-DETAILS

CM-ESS.2S

CM-ESS.2S Voltage monitoring relay 2c/o, B-C=3-600VRMS, 110-130VAC



| CI | Information |
|----|-------------|
| | |

| Extended Product Type | CM-ESS.2S |
|-----------------------|-----------------|
| Product ID | 1SVR730831R0400 |
| EAN | 4016779852197 |

Catalog Description

CM-ESS.2S Voltage monitoring relay 2c/o, B-C=3-600VRMS, 110-130VAC

connection terminals.

phase monitors range. This monitoring relay operates with a rated control supply voltage of 110 - 130 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

The CM-ESS.2S is a single-functional voltage monitoring relay from the CM single-

Long Description

Orderina

| EAN | 4016779852197 |
|------------------------|---------------|
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85364900 |

Popular Downloads

Data Sheet, Technical 2CDC112172D0201
Information 2CDC112172D0201

Instructions and 15VC730710M1000 Manuals

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

| Technical | |
|--|--|
| Function | Over- or undervoltage monitoring |
| Measuring Range | 3 30 V |
| | 6 60 V |
| | 30 300 V 60 600 V |
| Rated Control Supply | 110 130 V AC |
| Voltage (U _s) | |
| Output | 2 c/o (SPDT) contacts |
| Time Range | 0 s or 0.1 30 s tripping delay (ON) |
| Terminal Type | Screw Terminals |
| Rated Operational | (230 V) 4 A |
| Current AC-12 (I _e) | |
| Rated Operational | (230 V) 3 A |
| Current AC-15 (I _e) | (2410.4.4 |
| Rated Operational Current DC-12 (I _e) | (24 V) 4 A |
| Rated Operational | (24 V) 2 A |
| Current DC-13 (I _e) | |
| Minimum Switching | 24 V |
| Capacity | 10 mA |
| Rated Insulation Voltage | Measuring Circuit / Output Circuit 600 V |
| (U_i) | Output Circuit 1 / Output Circuit 2 250 V Supply Circuit / Measuring Circuit 600 V |
| | Supply Circuit / Output Circuit 250 V |
| Rated Impulse | Measuring Circuit / Output Circuit 6 kV |
| Withstand Voltage (U _{imp} | 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 |
| begree of Protection | Terminals IP20 |
| Overvoltage Category | III |
| Pollution Degree | 3 |
| Short-Circuit Protective | Output Circuit NC - F Type Fuses 10 A |
| Devices | 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 2.5 min |
| | Flexible 1x 0.5 2.5 mm² |
| | Flexible 2x 0.5 1.5 mm ² |
| | Rigid 1x 0.5 4 mm² Rigid 2x 0.5 2.5 mm² |
| Tightoning Torque | - |
| Tightening Torque Wire Stripping Length | 0.6 0.8 N·m 8 mm |
| Recommended Screw | Pozidriv 1 |
| Driver | 4.5 |
| | 0.8 x 4 |
| Mounting Position | 16 |

| 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 | 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 | 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 | 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 | 0.204 kg |
| Package Level 1 EAN | 4016779852197 |

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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) | 2712251 |
| E-Number (Sweden) | 3860622 |

Categories

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

