



PRODUCT-DETAILS

CM-ESS.2S

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



| General Information | |
|-----------------------|--|
| Extended Product Type | CM-ESS.2S |
| Product ID | 1SVR730830R0400 |
| EAN | 4016779852166 |
| Catalog Description | CM-ESS.2S Voltage monitoring relay 2c/o, B-C=3-600VRMS, 24-240VAC/DC |
| Long Description | <p>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 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 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.</p> |

| Ordering | |
|------------------------|---------------|
| EAN | 4016779852166 |
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85364900 |

Popular Downloads

| | |
|-----------------------------------|------------------------------------|
| Data Sheet, Technical Information | 2CDC112172D0201 |
| Instructions and Manuals | 1SVC730710M1000 1SVC730710M0000 |
| CAD Dimensional Drawing | 2CDC001079B0201 |

Dimensions

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| Product Net Width | 22.5 mm |
| Product Net Height | 85.6 mm |
| Product Net Depth / Length | 103.7 mm |
| Product Net Weight | 0.153 kg |

Technical

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| 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 _s) | 24 ... 240 V AC/DC |
| Output | 2 c/o (SPDT) contacts |
| Terminal Type | Screw Terminals |
| Rated Operational Current AC-12 (I _θ) | (230 V) 4 A |
| Rated Operational Current AC-15 (I _θ) | (230 V) 3 A |
| Rated Operational Current DC-12 (I _θ) | (24 V) 4 A |
| Rated Operational Current DC-13 (I _θ) | (24 V) 2 A |
| Minimum Switching Capacity | 24 V 10 mA |
| 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 |
| 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 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 |

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| 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

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|----------------------------------|--|
| 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

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

Material Compliance

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|---|-----------------------------------|
| 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

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|--------------------------|-----------------|
| End of Life Instructions | 1SAC200290H0001 |
|--------------------------|-----------------|

Certificates and Declarations

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|---------------------------------|---------------------------|
| 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 |

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|----------------------------------|--------------------------|
| Declaration of Conformity - UKCA | 1SVD981013-10 |
| DNV GL Certificate | DVN_GL_TAA0000292 |
| EAC Certificate | EAC_RU_C-DE.ME77.B.03424 |

Container Information

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|--------------------------------|---------------|
| 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 | 4016779852166 |

Classifications

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|----------------------------|-------------------------------------|
| 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) | 2712250 |
| E-Number (Sweden) | 3860619 |

Categories

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)

