

General Information

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| Extended Product Type: | CM-EFS.2S |
| Product ID: | 1SVR730750R0400 |
| EAN: | 4016779852128 |
| Catalog Description: | CM-EFS.2S Voltage monitoring relay 2c/o, B-C=3-600VRMS, 24-240VAC/DC |
| Long Description: | The CM-EFS.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. The CM-EFS.2S offers window (over- and undervoltage) monitoring as well as selection of ON- or OFF-delay, open- or closed-circuit operating principle, with or without latching function. The output contacts can be configured as 1x2 c/o (SPDT) (common signal) or 2x1 c/o (SPDT) (separate signal for minimum and maximum thresholds) operation. The hysteresis is fixed at 5 % 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. |

Categories

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

Ordering

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| Minimum Order Quantity: | 1 piece |
| Customs Tariff Number: | 85364900 |
| EAN: | 4016779852128 |

Container Information

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| Package Level 1 Width: | 97 mm |
| Package Level 1 Height: | 109 mm |
| Package Level 1 Length: | 30 mm |
| Package Level 1 Gross Weight: | 0.179 kg |
| Package Level 1 Units: | 1 piece |

Dimensions

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| Product Net Depth: | 103.7 mm |
| Product Net Height: | 85.6 mm |
| Product Net Weight: | 0.157 kg |
| Product Net Width: | 22.5 mm |

Technical

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| 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 |
| Rated Frequency (f): | 50 Hz 60 Hz DC Hz |
| Output: | 2 x 1 c/o or 1 x 2 c/o contacts; operating principle selectable |
| Time Range: | 0 s or 0.1-30 s tripping delay (ON or OFF) |
| 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 |

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| | 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 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- and undervoltage monitoring |

Environmental

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

Technical UL/CSA

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| 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)

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|---|---------------------------|
| Instructions and Manuals: | 1SVC730570M0000 |
| CB Certificate: | CB_DK-28255-UL |
| CCC Certificate: | CCC_2007010303243843.pdf |
| cULus Certificate: | cULus508_20120203-E140448 |
| Data Sheet, Technical Information: | 2CDC112174D0201 |
| 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

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| E-nummer: | 3860615 |
| 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 |

