



PRODUCT-DETAILS

CM-MPS.41S

CM-MPS.41S Three-phase monitoring relay 2c/o, 0,0.1-30s, L1-L2-L3=3x300-500VAC



General Information

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|-----------------------|--|
| Extended Product Type | CM-MPS.41S |
| Product ID | 1SVR730884R3300 |
| EAN | 4016779851862 |
| Catalog Description | CM-MPS.41S Three-phase monitoring relay 2c/o, 0,0.1-30s, L1-L2-L3=3x300-500VAC |
| Long Description | The CM-MPS.41S is a multifunctional relay from the CM three-phase monitors range. It operates with a rated control supply voltage / three-phase measuring voltage of 300-500 V AC 50/60 Hz and has a 2 c/o (SPDT) output with contacts rated at 250 V / 4 A. This relay monitors all phase parameters such as over/undervoltage, phase unbalance and phase failure. The corresponding threshold values are adjustable. Phase sequence monitoring as well as an ON or OFF tripping delay are selectable. 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. |

Ordering

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|------------------------|---------------|
| EAN | 4016779851862 |
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85364900 |

Popular Downloads

| | |
|-----------------------------------|------------------------------------|
| Data Sheet, Technical Information | 2CDC112206D0201 |
| Instructions and Manuals | 1SVC730730M1000 1SVC730730M0000 |
| 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 | 0.14 kg |

Technical

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| Function | Phase failure detection Phase sequence monitoring Over- and undervoltage monitoring Phase unbalance detection |
| Measuring Range | (L-L) 300 ... 500 V AC |
| Time Range | ≤ 200 ms start-up delay 0 s or 0.1 ... 30 s tripping delay (ON or OFF) |
| Rated Control Supply Voltage (U _s) | (L-L) 300 ... 500 V AC |
| Rated Frequency (f) | Supply Circuit 50/60 Hz |
| Output | 2 c/o (SPDT) contacts |
| 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 Impulse Withstand Voltage (U _{imp}) | Input Circuit 6 kV Output Circuit 4 kV |
| Rated Insulation Voltage (U _i) | Input Circuit / Output Circuit 600 V Output Circuit 1 / Output Circuit 2 300 V |
| Degree of Protection | Housing IP50 Terminals IP20 |
| Overvoltage Category | III |
| Pollution Degree | 3 |
| Short-Circuit Protective Devices | Output Circuit NC - F Type Fuses 6 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 |

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|--------------------------|--|
| | 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 |
| 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 -25 ... +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 |

Certificates and Declarations

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|-------------------|---------------------------|
| CB Certificate | CB_DK-27947-UL |
| CQC Certificate | CQC2009010303326655 |
| cULus Certificate | cULus508_20120829-E140448 |

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|----------------------------------|-------------------|
| Declaration of Conformity - CCC | 2020980303000197 |
| Declaration of Conformity - CE | 1SVD981014-00 |
| Declaration of Conformity - UKCA | 1SVD981014-10 |
| DNV GL Certificate | DNV_GL_TAA000017D |

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 | 0.165 kg |
| Package Level 1 EAN | 4016779851862 |

Classifications

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|----------------------------|-----------------------------------|
| Object Classification Code | B |
| ETIM 7 | EC001441 - Phase monitoring relay |
| ETIM 8 | EC001441 - Phase monitoring relay |
| ETIM 9 | EC001441 - Phase monitoring relay |
| eClass | V11.0 : 27371803 |
| UNSPSC | 39122332 |
| E-Number (Finland) | 2712278 |
| E-Number (Norway) | 4188136 |
| E-Number (Sweden) | 3860587 |

Categories

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

