



 PRODUCT-DETAILS

CM-MPS.43S

CM-MPS.43S 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.43S |
| Product ID | 1SVR730884R4300 |
| EAN | 4016779851879 |

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| Catalog Description | CM-MPS.43S Three-phase monitoring relay 2c/o, 0,0.1-30s, L1-L2-L3=3x300-500VAC |
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| Long Description | <p>The CM-MPN.43S 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 50/60/400 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. The CM-MPN.43S also offers selection of phase sequence monitoring, automatic phase sequence correction as well as an ON or OFF tripping delay. The output contacts can be configured as 1x2 c/o (SPDT) contacts (common signal) or 2x1 c/o (SPDT) contact (separate signal for over- and undervoltage thresholds) operation. 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> |
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Ordering

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| EAN | 4016779851879 |
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| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85364900 |

Popular Downloads

| | |
|-----------------------------------|------------------------------------|
| Data Sheet, Technical Information | 2CDC112204D0201 |
| 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 | 0.148 kg |

Technical

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| Function | Automatic phase sequence correction Over- and undervoltage monitoring Phase failure detection Phase unbalance detection Phase sequence monitoring |
| Measuring Range | (L-L) 300 ... 500 V AC |
| Time Range | 0 s or 0.1 ... 30 s tripping delay (ON or OFF) 200 ms start-up delay |
| Rated Control Supply Voltage (U _s) | (L-L) 300 ... 500 V AC |
| Rated Frequency (f) | Supply Circuit 50/60/400 Hz |
| Output | 2 x 1 c/o or 1 x 2 c/o contacts, configurable |
| 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 |

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| 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 |
| Recommended Screw Driver | 4.5 0.8 x 4 Pozidriv 1 |
| Mounting Position | 1 ... 6 |
| Mounting on DIN Rail | TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 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 2x 20-14 AWG Rigid 1x 20-12 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 |
| SCIP | 391855d7-8ab2-465b-9ea5-5a35944ee08f Germany (DE) |
| Simplified SCIP | c1c761b3-5f86-448f-b377-45056579c341 Poland (PL) f89f541e-788b-4239-8077-9a0bc10cf30f France (FR) 4bc1d327-7221-49a3-a39a-3b156bb1ef93 Poland (PL) c124575b-33c3-4270-a2a3-561c03fe13ac Denmark (DK) |

cefb8c06-c2b0-41cd-a042-c5a8041b0edf Finland (FI)
 4c577ce9-ed2e-4b00-b62d-c98c4747c820 Norway (NO)
 717173b8-84e8-4700-9369-383644542d41 Germany (DE)
 69d1d222-265d-46d1-bc55-2c3ef58371cd Belgium (BE)
 0e89fa15-ea58-4893-b5bc-c9cd4c3d7f3e Czech Republic (CZ)
 ad7a15bf-7b12-4b1e-9f95-dc7528ec87ce Germany (DE)
 43ce8a04-1c7e-41da-ad5b-57494a7de522 Germany (DE)
 e38e4351-361d-48ef-b776-f25982476bbd Italy (IT)
 1da160d6-732b-4299-bf32-5d70eca222ff Croatia (HR)
 ef3b9a54-a24e-42b7-b34f-a9666ae873e7 Estonia (EE)
 11c45022-6809-4495-a367-cec2c2d34afa Poland (PL)
 7966180f-cbe4-4093-bfd3-5cb17027ec95 Hungary (HU)
 341a71a2-2d38-4747-b7cb-cadfbdd42467 Spain (ES)
 5534844a-6443-48e5-aede-18a61a56e558 Hungary (HU)
 d149c9a3-922b-49de-ba47-8ed0c5297e3a Netherlands (NL)
 83f1ede6-6608-4681-93d9-98a444b63153 Greece (GR)
 dceb739f-178a-411e-94da-5e18e1aa079f Portugal (PT)
 b6107680-3b40-4cea-a2ba-136c7964c1b0 France (FR)
 aa0f75dc-18a1-40a5-ab0b-57e07525ff56 Belgium (BE)
 cb2c3612-9cbb-4827-9a2b-af9213284b43 Germany (DE)
 d671dcdd-8146-46d3-a13f-967c4c0f3630 Bulgaria (BG)
 0b95707a-e3a9-44aa-a9cf-2f3866f5d745 Sweden (SE)
 cc26bc6e-de09-475c-881a-417544e09994 Sweden (SE)

Toxic Substances Control Act - TSCA 2CMT2023-006536

ABB EcoSolutions

End of Life Instructions 1SAC200290H0001

Certificates and Declarations

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|----------------------------------|---------------------------|
| CB Certificate | CB_DK-27947-UL |
| CQC Certificate | CQC2009010303326655 |
| cULus Certificate | cULus508_20120829-E140448 |
| 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 | 0.173 kg |
| Package Level 1 EAN | 4016779851879 |

Classifications

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|----------------------------|-----------------------------------|
| Object Classification Code | B |
| ETIM 7 | EC001441 - Phase monitoring relay |

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| ETIM 8 | EC001441 - Phase monitoring relay |
| ETIM 9 | EC001441 - Phase monitoring relay |
| eClass | V11.0 : 27371803 |
| UNSPSC | 39122332 |
| E-Number (Finland) | 2712280 |
| E-Number (Norway) | 4188140 |
| E-Number (Sweden) | 3860588 |

Categories

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



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