



PRODUCT-DETAILS

# CM-PBE

## CM-PBE Phase loss monitoring relay 1n/o, L1,2,3= 380-440VAC



### General Information

|                       |   |
|-----------------------|---|
| Extended Product Type | CM-PBE  |
| Product ID            | 1SVR550882R9500   |
| EAN                   | 4013614348136   |
| Catalog Description   | CM-PBE Phase loss monitoring relay 1n/o, L1,2,3= 380-440VAC   |
| Long Description      | The CM-PBE relay is from the CM three-phase monitors range. This relay operates with a rated control supply voltage / three-phase measuring voltage of 380-440 V AC and has a 1 n/o output (closed circuit principle) with contacts rated at 250 V / 4 A. The CM-PBE monitors the phase loss and undervoltage. The corresponding threshold values are fixed. The relay is suitable for monitoring of three phase mains. |

### Ordering

|                        |               |
|------------------------|---------------|
| EAN                    | 4013614348136 |
| Minimum Order Quantity | 1 piece       |
| Customs Tariff Number  | 85364900      |

### Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 2CDC112194D0201 |
|-----------------------------------|-----------------|

|                          |                 |
|--------------------------|-----------------|
| Instructions and Manuals | 1SVC550510M0002 |
| CAD Dimensional Drawing  | 2CDC001079B0201 |

## Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 22.5 mm  |
| Product Net Height         | 78 mm    |
| Product Net Depth / Length | 78.5 mm  |
| Product Net Weight         | 0.066 kg |

## Technical

|  |   |
|--|---|
| Function   | Phase failure detection   |
| Sub-Function                                     | Phase loss  |
| Measuring Range                                  | (L-L) 380 ... 440 V AC  |
| Time Range                                       | 500 ms start-up delay<br>150 ms tripping delay  |
| Rated Control Supply Voltage ( $U_s$ )           | (L-L) 380 ... 440 V AC  |
| Rated Frequency (f)                              | Supply Circuit 50/60 Hz   |
| Output   | 1 n/o contact   |
| Terminal Type                                    | Screw Terminals   |
| Rated Operational Current AC-12 ( $I_{\theta}$ ) | (230 V) 4 A   |
| Rated Operational Current AC-15 ( $I_{\theta}$ ) | (230 V) 3 A   |
| Rated Operational Current DC-12 ( $I_{\theta}$ ) | (24 V) 4 A  |
| Rated Operational Current DC-13 ( $I_{\theta}$ ) | (24 V) 2 A  |
| Rated Impulse Withstand Voltage ( $U_{imp}$ )    | Input Circuit 4 kV  |
| Rated Insulation Voltage ( $U_i$ )               | Input Circuit / Output Circuit 400 V  |
| Degree of Protection                             | Housing IP50<br>Terminals IP20  |
| Overvoltage Category                             | III   |
| Pollution Degree                                 | 3   |
| Short-Circuit Protective Devices                 | Output Circuit NC - F Type Fuses 10 A<br>Output Circuit NO - F Type Fuses 10 A  |
| Connecting Capacity                              | Flexible with Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup><br>Flexible 2x 1 ... 1.5 mm <sup>2</sup><br>Rigid 2x 0.75 ... 1.5 mm <sup>2</sup> |
| Tightening Torque                                | 0.6 ... 0.8 N·m   |
| Wire Stripping Length                            | 10 mm   |
| Mounting Position                                | 1 ... 6   |
| Mounting on DIN Rail                             | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715                          |
| Standards  | CAN/CSA C22.2 No.14<br>IEC/EN 63000<br>IEC/EN 61000-6-2<br>IEC/EN 61000-6-3<br>UL 508   |

## Technical UL/CSA

|                                  |                         |
|----------------------------------|-------------------------|
| Maximum Operating Voltage UL/CSA | Output Circuit 250 V AC |
| Contact Rating UL/CSA            | B300                    |

|                               |   |
|-------------------------------|---|
| Connecting Capacity<br>UL/CSA | Flexible with Ferrule 2x 18-16 AWG<br>Flexible 2x 18-16 AWG<br>Rigid 2x 18-16 AWG |
| Tightening Torque<br>UL/CSA   | 7.08 in-lb  |
| Pilot Duty UL/CSA             | B300  |

**Environmental**

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

**Material Compliance**

|   |                                   |
|---|-----------------------------------|
| Conflict Minerals<br>Reporting Template<br>(CMRT) | 9AKK108467A5658                   |
| REACH Declaration                                 | 1SVD981001-4501                   |
| RoHS Information                                  | 1SVD981001-4401                   |
| RoHS Status                                       | Following EU Directive 2011/65/EU |
| Toxic Substances Control<br>Act - TSCA            | 2CMT2023-006536                   |

**Certificates and Declarations**

|                                     |                      |
|-------------------------------------|----------------------|
| CB Certificate                      | CB_DK-8880           |
| CCC Certificate                     | CCC_2013010303605960 |
| CQC Certificate                     | CQC2013010303605960  |
| cUL Certificate                     | cUL508_E140448       |
| Declaration of Conformity<br>- CCC  | 2020980303000202     |
| Declaration of Conformity<br>- CE   | 1SVD981025-00        |
| Declaration of Conformity<br>- UKCA | 1SVD981025-10        |
| UL Certificate                      | UL508_E140448        |

**Container Information**

|                                   |               |
|-----------------------------------|---------------|
| Package Level 1 Units             | box 1 piece   |
| Package Level 1 Width             | 23 mm         |
| Package Level 1 Depth /<br>Length | 82 mm         |
| Package Level 1 Height            | 82 mm         |
| Package Level 1 Gross<br>Weight   | 0.078 kg      |
| Package Level 1 EAN               | 4013614348136 |

**Classifications**

|                            |                                   |
|----------------------------|-----------------------------------|
| 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)         | 2712854                           |

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## Categories

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

