

PRODUCT-DETAILS

# CM-UFD.M31

## CM-UFD.M31 Grid feeding monitoring relay 3c/o,L-L= 0-540VAC,L-N=0-312VAC



### General Information

|                       |  |
|-----------------------|--|
| Extended Product Type | CM-UFD.M31   |
| Product ID            | 1SVR560730R3401  |
| EAN                   | 4013614492914  |
| Catalog Description   | CM-UFD.M31 Grid feeding monitoring relay 3c/o,L-L= 0-540VAC,L-N=0-312VAC |

|                  |   |
|------------------|---|
| Long Description | <p>The CM-UFD.M31 is a multi-functional grid feeding monitoring relay, which provides interface protection and is to be installed between a renewable energy system and the public grid. This innovative relay guarantees grid stability and seeks to prevent blackouts. If the voltage or frequency magnitudes of the public grid are outside the permitted range, then the device changes status and acts to disconnect the renewable energy system from the public grid by sending a signal to a decoupling unit (e.g. contactor, switch disconnector or circuit breaker). As soon as the grid is stable again, the system may automatically reconnected. The CM-UFD.M31 provides different monitoring functions including over-/undervoltage and over-/underfrequency as well as rate of change of frequency (RoCoF) and vector shift monitoring functions, which detect a loss of mains event. This grid feed monitoring relay is certified in accordance to VDE-AR-N 4105, VDE-AR-N 4110 &amp; VDE-AR-N 4120.</p> |
|------------------|---|

### Ordering

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

### Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 2CDC112270D0201 |
|-----------------------------------|-----------------|

Instructions and  
Manuals

1SVC560511M0001

**Dimensions**

|                               |          |
|-------------------------------|----------|
| Product Net Width             | 108 mm   |
| Product Net Height            | 90 mm    |
| Product Net Depth /<br>Length | 67 mm    |
| Product Net Weight            | 0.304 kg |

**Technical**

|   |   |
|---|---|
| Function  | Over- and undervoltage monitoring<br>Interrupted neutral monitoring<br>Over- and underfrequency monitoring<br>10 minutes average value monitoring<br>Vector shift detection<br>ROCOF monitoring |
| Standards   | VDE-AR-N 4105<br>VDE-AR-N 4110<br>VDE-AR-N 4120   |
| Measuring Range                                   | 0 ... 540 V AC  |
| Rated Control Supply<br>Voltage (U <sub>s</sub> ) | 24 ... 240 V AC/DC  |
| Output  | 3 c/o (SPDT) contacts   |
| Terminal Type                                     | Screw Terminals   |

**Environmental**

|                            |  |
|----------------------------|--|
| Ambient Air<br>Temperature | Operation -20 ... +60 °C<br>Storage -25 ... +50 °C |
| RoHS Status                | Following EU Directive 2011/65/EU                  |

**Technical UL/CSA**

|                               |  |
|-------------------------------|--|
| Connecting Capacity<br>UL/CSA | Flexible with Ferrule 1x 24-12 AWG<br>Flexible with Ferrule 2x 24-18 AWG<br>Flexible with Insulated Ferrule 1x 24-12 AWG<br>Flexible with Insulated Ferrule 2x 24-18 AWG<br>Flexible 1x 24-12 AWG<br>Flexible 2x 24-16 AWG<br>Rigid 1x 24-10 AWG<br>Rigid 2x 24-16 AWG |
| Tightening Torque<br>UL/CSA   | 4.4 ... 5.3 in-lb  |

**Certificates and Declarations (Document Number)**

|                                   |   |
|-----------------------------------|---|
| Declaration of<br>Conformity - CE | 1SVD981027-0002   |
| EAC Certificate                   | EAC_RU_C-DE.ME77.B.00417-19   |
| Instructions and<br>Manuals       | 1SVC560511M0001   |
| RoHS Information                  | 1SVD981027-0001   |
| TÜV Certificate                   | TUEV_AR-N4110_500810200-2019<br>TUEV_BDEW_CM-UFD_M31<br>TUEV_AoC_44254-53768-01<br>TUEV_BDEW_D8_17_11_44254_017 |

### Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 121 mm        |
| Package Level 1 Height         | 99 mm         |
| Package Level 1 Depth / Length | 71 mm         |
| Package Level 1 Gross Weight   | 0.36 kg       |
| Package Level 1 EAN            | 4013614492914 |

### Classifications

|                            |                                     |
|----------------------------|-------------------------------------|
| Object Classification Code | B                                   |
| ETIM 4                     | EC001438 - Voltage monitoring relay |
| ETIM 5                     | EC001438 - Voltage monitoring relay |
| ETIM 6                     | EC001438 - Voltage monitoring relay |
| ETIM 7                     | EC001438 - Voltage monitoring relay |
| ETIM 8                     | EC001438 - Voltage monitoring relay |
| eClass                     | V11.0 : 27371801                    |
| E-Number (Finland)         | 2712563                             |

### Categories

Low Voltage Products and Systems → Control Products → Electronic Relays and Controls → Grid Feeding Monitors

