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 PRODUCT-DETAILS

## CM-UFD.M31

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




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#### General Information

<b>Extended Product Type:</b>	CM-UFD.M31
<b>Product ID:</b>	1SVR560730R3401
<b>EAN:</b>	4013614492914
<b>Catalog Description:</b>	CM-UFD.M31 Grid feeding monitoring relay 3c/o,L-L= 0-540VAC,L-N=0-312VAC
<b>Long Description:</b>	<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>
<b>Display Name:</b>	CM-UFD.M31

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#### Ordering

<b>EAN:</b>	4013614492914
<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85364900

## Popular Downloads

<b>Data Sheet, Technical Information:</b>	2CDC112270D0201
<b>Instructions and Manuals:</b>	1SVC560515M0001
<b>CAD Dimensional Drawing:</b>	2CDC001079B0201
<b>EPLAN Data:</b>	9AAC159149_EPLAN

## Dimensions

<b>Product Net Width:</b>	108 mm
<b>Product Net Height:</b>	90 mm
<b>Product Net Depth / Length:</b>	67 mm
<b>Product Net Weight:</b>	0.304 kg

## Technical

<b>Function:</b>	Over- and undervoltage monitoring Interrupted neutral monitoring Over- and underfrequency monitoring 10 minutes average value monitoring Vector shift detection ROCOF monitoring
<b>Measuring Range:</b>	0 ... 540 V AC
<b>Rated Control Supply Voltage (U<sub>s</sub>):</b>	24 ... 240 V AC/DC
<b>Output:</b>	3 C/O (SPDT) Contacts
<b>Terminal Type:</b>	Screw Terminals
<b>Rated Operational Current AC-12 (I<sub>e</sub>):</b>	(230 V) 4 A
<b>Rated Operational Current AC-15 (I<sub>e</sub>):</b>	(230 V) 3 A
<b>Rated Operational Current DC-12 (I<sub>e</sub>):</b>	(24 V) 4 A
<b>Rated Operational Current DC-13 (I<sub>e</sub>):</b>	(24 V) 2 A
<b>Minimum Switching Capacity:</b>	24 V 10 mA
<b>Degree of Protection:</b>	Housing IP20 Terminals IP20
<b>Pollution Degree:</b>	3
<b>Short-Circuit Protective Devices:</b>	Output Circuit NC - F Type Fuses 10 A Output Circuit NO - F Type Fuses 10 A
<b>Electrical Durability:</b>	AC-12 50000 cycle
<b>Mechanical Durability:</b>	Nr. Operations 30000000 cycle

<b>Connecting Capacity:</b>	Flexible with Ferrule 1x 0.25 ... 4.0 mm <sup>2</sup> Flexible with Ferrule 2x 0.25 ... 0.75 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.25 ... 4.0 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.25 ... 0.75 mm <sup>2</sup> Flexible 1x 0.2 ... 4.0 mm <sup>2</sup> Flexible 2x 0.2 ... 1.5 mm <sup>2</sup> Rigid 1x 0.2 ... 6.0 mm <sup>2</sup> Rigid 2x 0.2 ... 1.5 mm <sup>2</sup>
<b>Tightening Torque:</b>	0.5 ... 0.6 N-m
<b>Wire Stripping Length:</b>	8 mm
<b>Mounting Position:</b>	1 ... 6
<b>Mounting on DIN Rail:</b>	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
<b>Standards:</b>	VDE-AR-N 4105 VDE-AR-N 4110 VDE-AR-N 4120

## Technical UL/CSA

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

## Environmental

<b>Ambient Air Temperature:</b>	Operation -20 ... +60 °C Storage -25 ... +50 °C
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## Material Compliance

<b>Conflict Minerals Reporting Template (CMRT):</b>	9AKK108467A5658
<b>REACH Declaration:</b>	1SVD981001-4501
<b>RoHS Declaration:</b>	1SVD981001-4401
<b>RoHS Information:</b>	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
<b>Toxic Substances Control Act - TSCA:</b>	2CMT2023-006536

## ABB EcoSolutions

<b>EcoSolutions Profile:</b>	1SFC100125C0365
<b>Environmental Product Declaration - EPD:</b>	1SAC200393H0001

## Certificates and Declarations

<b>Declaration of Conformity - CE:</b>	1SVD981027-0002
<b>TÜV Certificate:</b>	TUEV_AR-N4110_500810200-2019 TUEV_BDEW_CM-UFD_M31 TUEV_AoC_44254-53768-01 TUEV_BDEW_D8_17_11_44254_017 ESY_0442540071 MAVIR-OVRAM-JKV-00748-00-2024-05-31

## Container Information

<b>Package Level 1 Units:</b>	box 1 piece
<b>Package Level 1 Width:</b>	121 mm
<b>Package Level 1 Depth / Length:</b>	71 mm
<b>Package Level 1 Height:</b>	99 mm
<b>Package Level 1 Gross Weight:</b>	0.36 kg
<b>Package Level 1 EAN:</b>	4013614492914

## External Classifications and Standards

<b>Object Classification Code:</b>	B
<b>ETIM 7:</b>	EC001438 - Voltage monitoring relay
<b>ETIM 8:</b>	EC001438 - Voltage monitoring relay
<b>ETIM 9:</b>	EC001438 - Voltage monitoring relay
<b>eClass:</b>	V11.0 : 27371801
<b>UNSPSC:</b>	39122331
<b>E-Number (Finland):</b>	2712563
<b>E-Number (Norway):</b>	4188111

## Categories

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



