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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Differential current monitoring - RCM-A-SCT-105 - 2806087

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Differential current converter for type A differential current monitor.

Product Features

- Residual current detection characteristics type A (50/60 Hz)
- Detects pulsating DC and AC residual currents
- Adjustable residual response current of 30 mA to 3 A
- Adjustable pre-alarm threshold and delay time
- Actual residual current can be read via LED display
- Remote signaling for main and pre-alarm
- Residual current monitoring devices act as a form of fire prevention



Key commercial data

| | |
|----------------------|----------|
| Packing unit | 1 pc |
| Custom tariff number | 85043180 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|---------------------------------|-----------|
| Height | 170 mm |
| Width | 33 mm |
| Depth | 146 mm |
| Diameter converter | 105.00 mm |
| Outside diameter of cables max. | 70.00 mm |

Ambient conditions

| | |
|----------------------|------------------------|
| Degree of protection | IP20 (terminal blocks) |
| | IP45 (housing) |

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Ambient conditions

| | |
|---|------------------|
| Ambient temperature (operation) | -20 °C ... 65 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

General

| | |
|------------------|----------------|
| Housing material | Polycarbonate |
| Mounting type | Screw mounting |

Common characteristics

| | |
|---|---------------------------|
| Rated current I_n | 250 A |
| Rated response differential current I_{dyn} | 3 A |
| Differential current acquisition characteristic | Type A (50 / 60 Hz) |
| Response differential current $I_{\Delta n}$ | 0.03 A ... 3 A |
| Thermal permanent differential current I_{cth} | $1.5 \times I_n$ |
| Thermal rated short-time differential current I_{th} | $10 \times I_n$ (for 1 s) |
| Rated surge voltage resistance U_{imp} | 8 kV |
| Surge voltage category | IV |
| Rated voltage U_n | 690 V |
| Pollution degree | 2 |
| Max. overcurrent as regards the non-resolution | $6 \times I_n$ |
| Rated differential short-circuit current $I_{\Delta c}$ | 10 kA |
| Rated surge differential current I_{dyn} | $25 \times I_n$ |

Connections

| | |
|--|-----------------------|
| Connection method | Screw terminal blocks |
| Number of connections | 2 |
| Stripping length | 8 mm |
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 4 mm ² |
| Conductor cross section AWG/kcmil min. | 24 |
| Conductor cross section AWG/kcmil max | 12 |
| Cable/line name | Converter supply line |
| Maximum cable length | 10 m |
| Cross section | 0.5 mm ² |
| Cable type | LiY |

Standards and Regulations

| | |
|--------------------------|--------------|
| Standards/specifications | DIN EN 62020 |
|--------------------------|--------------|

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Standards and Regulations

| | |
|--|----------------|
| | VDE 0663 |
| | DIN EN 60044-1 |
| | VDE 0414 |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27210902 |
| eCl@ss 4.1 | 27210902 |
| eCl@ss 5.0 | 27210902 |
| eCl@ss 5.1 | 27210902 |
| eCl@ss 6.0 | 27210902 |
| eCl@ss 7.0 | 27210902 |
| eCl@ss 8.0 | 27210902 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001505 |
| ETIM 3.0 | EC001505 |
| ETIM 4.0 | EC002048 |
| ETIM 5.0 | EC002048 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211501 |
| UNSPSC 7.0901 | 39121019 |
| UNSPSC 11 | 39121006 |
| UNSPSC 12.01 | 39121006 |
| UNSPSC 13.2 | 39121006 |

Approvals

Approvals

Approvals

VDE Zeichengenehmigung

Ex Approvals

Differential current monitoring - RCM-A-SCT-105 - 2806087

Approvals

Approvals submitted

Approval details



Drawings

Circuit diagram

