

# RCM-A/50/85-264V - Differential current monitoring



2806016

<https://www.phoenixcontact.com/us/products/2806016>

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Differential current monitor in type A version for detecting pulsing AC and DC leakage currents at 50/60 Hz.

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2806016       |
| Packing unit                         | 1 pc          |
| Sales key                            | CL05          |
| Product key                          | CLB211        |
| GTIN                                 | 4046356504911 |
| Weight per piece (including packing) | 208.3 g       |
| Weight per piece (excluding packing) | 100 g         |
| Customs tariff number                | 90303310      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                            |                 |
|----------------------------|-----------------|
| Product type               | Evaluation unit |
| Insulation characteristics |                 |
| Overvoltage category       | III             |
| Pollution degree           | 2               |

### Electrical properties

|                         |                      |
|-------------------------|----------------------|
| Current consumption     | < 4 VA               |
| Nominal frequency $f_N$ | 50 Hz (60 Hz)        |
| Nominal voltage $U_N$   | 85 V AC ... 264 V AC |

#### Typical characteristics

|                            |          |
|----------------------------|----------|
| Max. required back-up fuse | 16 A (B) |
|----------------------------|----------|

#### Indicator/remote signaling

|   |                           |
|---|---------------------------|
| Switching function                      | Changeover contact        |
| Maximum operating voltage $U_{max. AC}$ | 230 V AC                  |
| Max. operating current $I_{max}$        | 5 A ( $\cos \phi > 0.9$ ) |
| Max. required back-up fuse              | 4 A (gL)                  |

#### Indicator/remote signaling

|                    |                    |
|--------------------|--------------------|
| Switching function | Changeover contact |
|--------------------|--------------------|

#### Typical characteristics

|   |   |
|---|---|
| Rated response differential current $I_{dyn}$   | 3 A   |
| Response differential current $I_{\Delta n}$    | 30, 100, 300, 1000, 3000 mA (adjustable)                                  |
| Discrimination threshold main alarm             | 80 % ... 100 % (of the set response differential current $I_{\Delta n}$ ) |
| Discrimination threshold pre-alarm              | 10 % ... 90 % (of the main alarm threshold, adjustable)                   |
| Response time for $2 \times I_{\Delta n}$       | 0.1 s ... 1 s (adjustable)  |
| Rated voltage $U_n$                             | 230 V AC  |
| Differential current acquisition characteristic | Type A (50 / 60 Hz)   |
| Rated surge voltage resistance $U_{imp}$        | 4 kV  |

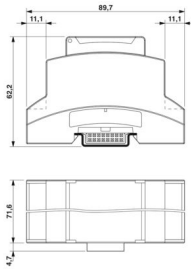
### Connection data

|  |                       |
|--|-----------------------|
| Connection method                                    | Screw terminal blocks |
| Tightening torque                                    | 0.6 Nm                |
| Conductor cross-section flexible min.                | 0.2 mm <sup>2</sup>   |
| Conductor cross-section flexible max.                | 2.5 mm <sup>2</sup>   |
| Min. conductor cross-section, flexible, with ferrule | 0.25 mm <sup>2</sup>  |
| Max. conductor cross-section, flexible, with ferrule | 2.5 mm <sup>2</sup>   |
| Conductor cross-section, rigid min.                  | 0.2 mm <sup>2</sup>   |
| Conductor cross-section, rigid max.                  | 4 mm <sup>2</sup>     |

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## Dimensions

|                     |  |  |
|---------------------|--|--|
| Dimensional drawing |  |  |
| Width               |  | 71.6 mm  |
| Height              |  | 89.7 mm  |
| Depth               |  | 62.2 mm  |
| Horizontal pitch    |  | 4 Div.   |

## Material specifications

|                  |    |
|------------------|----|
| Housing material | PC |
|------------------|----|

## Environmental and real-life conditions

### Ambient conditions

|   |  |
|---|--|
| Degree of protection                    | IP20                                       |
|   | IP40 (distributor installation with cover) |
| Ambient temperature (operation)         | -25 °C ... 65 °C                           |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C                           |

## Standards and regulations

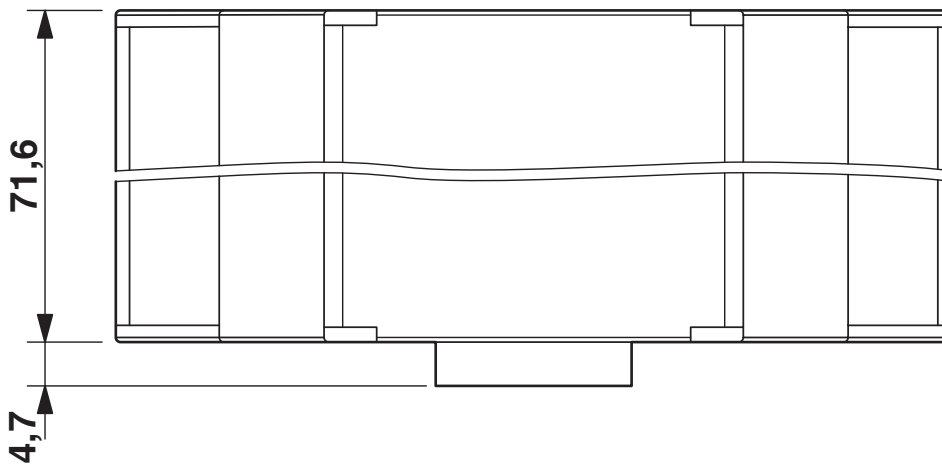
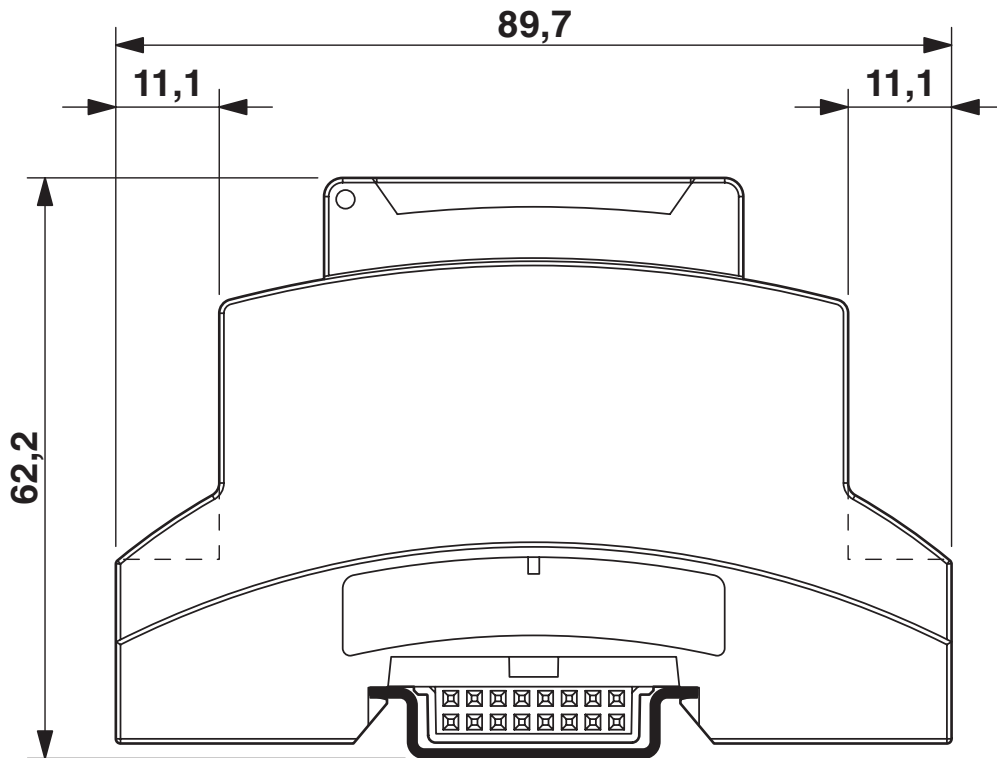
|                          |              |
|--------------------------|--------------|
| Standards/specifications | DIN EN 62020 |
| Standards/specifications | DIN EN 60664 |

## Mounting

|                   |                 |
|-------------------|-----------------|
| Mounting type     | DIN rail: 35 mm |
| Mounting position | any             |

Drawings

Dimensional drawing



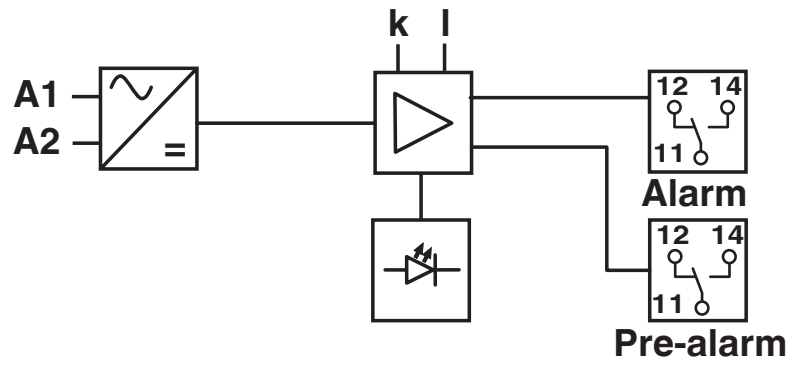
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Circuit diagram



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## Environmental product compliance

EU REACH SVHC

| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|
|-------------------------------------|----------------------------|

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