Specifications

# Eaton 235866




## Catalog Number: 235866

Eaton Distribution parts. Residual current circuit-breaker, 25A, 0p, 1mA, A-Char, 2

### General specifications

| | |
|---|---|
| **Product Name** | **Catalog Number** |
| Eaton Distribution parts | 235866 |
| **EAN** | **Product Length/Depth** |
| 4015082358662 | 80 mm |
| **Product Height** | **Product Width** |
| 76 mm | 70 mm |
| **Product Weight** | **Compliances** |
| 0.296 kg | RoHS conform |

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## Product specifications

### Used with

KLV-TC-4 276241 (Compact enclosure) Z-RC/AK-4TE 101062 (sealing cover set)
KLV-TC-4 276241 (Compact enclosure)
Z-RC/AK-4TE 101062 (sealing cover set)

### Type

PFR2
Residual current relay
Type S/A

### Special features

Ambient temperature hint:
Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C
Tripping signal contact for subsequent installation Z-NHK 248434

### Amperage Rating

25 A

### Voltage rating

230 V AC / 400 V AC

### Features

Additional equipment possible
Selective protection
Residual current relay

### Accessories required

Z-HK 248432

### 10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

### 10.11 Short-circuit rating

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

### 10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

## Resources

### Declarations of conformity

DA-DC-03_PFR

### Drawings

eaton-circuit-breaker-xeffect-frcmm-rccb-dimensions.jpg

### Installation instructions

IL019141ZU

### mCAD model

eaton-pfr_4p-drawing.dwg

eaton-pfr_4p-3-d-model.stp

### Wiring diagrams

eaton-wiring-diagram-rf7.jpg

eaton-wiring-diagram-rf7_impuls.jpg

eaton-wiring-diagram-rf7_dauer.jpg

### 10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

### 10.2.2 Corrosion resistance

Meets the product standard's requirements.

### 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

### 10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

### 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects

Meets the product standard's requirements.

### 10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

### 10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

### 10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

### 10.2.7 Inscriptions

Meets the product standard's requirements.

### 10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

### 10.4 Clearances and creepage distances

Meets the product standard's requirements.

### 10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

### 10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

### 10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

### 10.8 Connections for external conductors

Is the panel builder's responsibility.

### 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

### 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

### 10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

### Frame

45 mm

### Frequency rating

50 Hz

### Pollution degree

2

### Mounting Method

Quick attachment with 2 latch positions on top-hat rail IEC/EN 60715
DIN rail

### Climatic proofing

25-55 °C / 90-95% relative humidity according to IEC 60068-2

### Rated impulse withstand voltage (Uimp)

4 kV

### Rated short-time withstand current (Icw)

10 kA

### Built-in width (number of units)

70 mm (4 SU)

### Busbar material thickness

0.8 mm - 2 mm

### Terminal protection

Finger and hand touch safe, DGUV VS3, EN 50274

### Terminals (top and bottom)

Twin-purpose terminals

### Test circuit range

184 V AC - 440 V AC

### Ambient operating temperature - max

60 °C

### Ambient operating temperature - min

-25 °C

### Built-in depth

69.5 mm

Connectable conductor cross section (multi-wired) - max

16 mm²

Connectable conductor cross section (multi-wired) - min

1.5 mm²

Connectable conductor cross section (solid-core) - max

35 mm²

Connectable conductor cross section (solid-core) - min

1.5 mm²

Fault current rating

1000 mA

Heat dissipation capacity

0 W

Heat dissipation per pole, current-dependent

0 W

Permitted storage and transport temperature - max

60 °C

Permitted storage and transport temperature - min

-35 °C

Lifespan, mechanical

20000 operations

Degree of protection

IP20

IP20, IP40 with suitable enclosure

Number of poles

Four-pole

Leakage current type

A

Lifespan, electrical

4000 operations

Sensitivity type

Pulse-current sensitive

Rated fault current - max

1 A

Rated fault current - min

1 A

Rated insulation voltage (Ui)

440 V

Rated operational current for specified heat dissipation (In)

25 A

Rated operational voltage (Ue) - max

400 V

Surge current capacity

5 kA

Width in number of modular spacings

4

Voltage type

AC

Terminal capacity (solid wire)

1.5 mm² - 35 mm²

Tripping time

40 ms delayed - selective switch off

Rated short-circuit strength

5 kA

Terminal capacity (stranded cable)

16 mm² (2x)

RAL-number

7035

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