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Worldwide English



Powering Business Worldwide

PFR-W-105 - Current transformer for earth-leakage circuit-breaker inner diameter 105mm



285602 PFR-W-105

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285602 PFR-W-105

Current transformer for earth-leakage circuit-breaker inner diameter 105mm

EL-Nummer (Norway)

4365088

Optional accessories for the circuit-breaker series NZM offers a comprehensive portfolio of application options for use world wide. The mounting is always flexible and easy thanks to the modular function groups. Notes: not UL/CSA approved. Incl. screw fixing. Alternative: fixing clip for DIN top-hat rail mounting. Engineering Guidelines: the current transformer diameter must be selected 1.5 times larger than the envelope diameter of the passed through conductor., than the envelope diameter of the passed through conductor. Can be used for: NZM1, NZM1-4, N1, N1-4, NZM2, NZM2-4, N2, N2-4, NZM3, NZM3-4, N3, N3-4, NZM4, NZM4-4, N4-4

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Delivery program

Description

In combination with PFR residual current relay

not UL/CSA approved

Diameter [mm]

105 mm

Rated operational voltage [U_e]

690 V 50/60 Hz V AC

Notes

incl. screw fixing

Alternative: fixing clip for DIN mounting rail

Design note:

The current transformer diameter must be selected 1.5 times larger than the envelope diameter of the passed through conductor.

Technical data

Electrical

Standards

IEC

Rated voltage of the relay contact

690V (50/60 Hz) V AC/DC

Mechanical
Mounting
Incl. fixing clip for DIN-rail mounting

Design verification as per IEC/EN 61439

IEC/EN 61439 design verification

10.2 Strength of materials and parts 10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.5 Lifting

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

10.2 Strength of materials and parts 10.2.6 Mechanical impact

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

10.2 Strength of materials and parts 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 Insulation properties 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

10.9 Insulation properties 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.9 Insulation properties 10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

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.

10.13 Mechanical function

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

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Residual current release for power circuit breaker (EC001021)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Fault current switch for circuit breakers (ecl@ss10.0.1-27-37-04-11 [AKF009013])

Rated control supply voltage U_s at AC 50Hz

0 - 0 V

Rated control supply voltage U_s at AC 60Hz

0 - 0 V

Rated control supply voltage U_s at DC

0 - 0 V

Rated fault current

0 - 0 A

Max. power on-delay time

0 ms

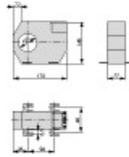
Delay adjustable

No

Max. rated operation voltage U_e

0V

Dimensions



CAD data

- [Product-specific CAD data](#)
(Web)
- [3D Preview](#)
(Web)

DWG files

- [DA-CD-pfr_w_105](#)
File
(Web)

edz files

- [DA-CE-ETN.PFR-W-105](#)
File
(Web)

Step files

- [DA-CS-pfr_w_105](#)
File
(Web)

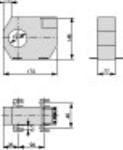
Product photo

- 
[1230PIC-794](#)
Photo

3D drawing

- 
[1230DRW-69](#)
Line drawing
Ring-type transformer

Dimensions single product

- 
[1230DIM-181](#)
Line drawing
Ring-type transformer

Instruction Leaflet

- [IL01219036Z](#)
Asset
(PDF, Language independent)

Declaration of Conformity

EU

- [DA-DC-03_PFR_181019](#)
Asset
(PDF)

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