



Earth-leakage circuit-breaker 0, 03-5 A

Part no. PFR-5
Catalog No. 285557
EL-Nummer (Norway) 0004365085

Delivery program

| | | | |
|--|----------------|---|---|
| Rated fault currents | $I_{\Delta n}$ | A | 0.03, 0.1, 0.3, 0.5, 1, 3, 5 |
| Description | | | Adjustable fault current and delay time Fault current early warning by flashing, red LED Pulse-current sensitive Integrated auxiliary contact (1 C/O) Ring-type transformer must also be ordered not UL/CSA approved |
| Rated control voltage | U_s | V | 230 V AC 50/60Hz |
| Notes | | | |
| Adjustable fault current: 0.03, 0.1, 0.3, 0.5, 1, 3, 5 A | | | |
| Adjustable delay time: 0.02, 0.1, 0.3, 0.5, 1, 3, 5 A | | | |

Technical data

Electrical

| | | | |
|------------------------------------|----------------|---------|---|
| Standards | | | IEC/EN 60947-2, IEC 755, IEC 1008, IEC 1009 |
| Sensitivity | | | Pulse current sensitive, type A |
| Rated control voltage | U_s | V AC | 230 ±20 % (50/60 Hz) |
| Motor rating | P_e | W | 3 |
| Rated fault currents | $I_{\Delta n}$ | A | 0.03, 0.1, 0.3, 0.5, 1, 3, 5 |
| Delay time | t_v | s | 0.02, 0.1, 0.3, 0.5, 1, 3, 5 |
| Relay contacts | | | 1 integrated changeover contact |
| Rated voltage of the relay contact | | V AC/DC | 250/100 |
| Rated current of the relay contact | | A | 6 |

Mechanical

| | | | |
|--------------------------|--|-----------------|---|
| Standard front dimension | | mm | 45 |
| Enclosure height | | mm | 85 |
| Device width | | mm | 45 |
| Mounting | | | Snap fixing, top-hat rail DIN 46277, IEC/EN 60715 |
| Terminals top and bottom | | | Box terminals |
| Terminal protection | | | Finger/back-of-hand proof to BGV A2, VDE 106 part 100 |
| Terminal capacities | | mm ² | 2 x 0.75 - 2.5 solid, 2 x 0.75 - 1.5 flexible/with ferrules |
| Sealability | | | Setting buttons |

Ambient temperature

| | | | |
|-----------|--|----|-----------|
| Operation | | °C | -10 - +50 |
|-----------|--|----|-----------|

Design verification as per IEC/EN 61439

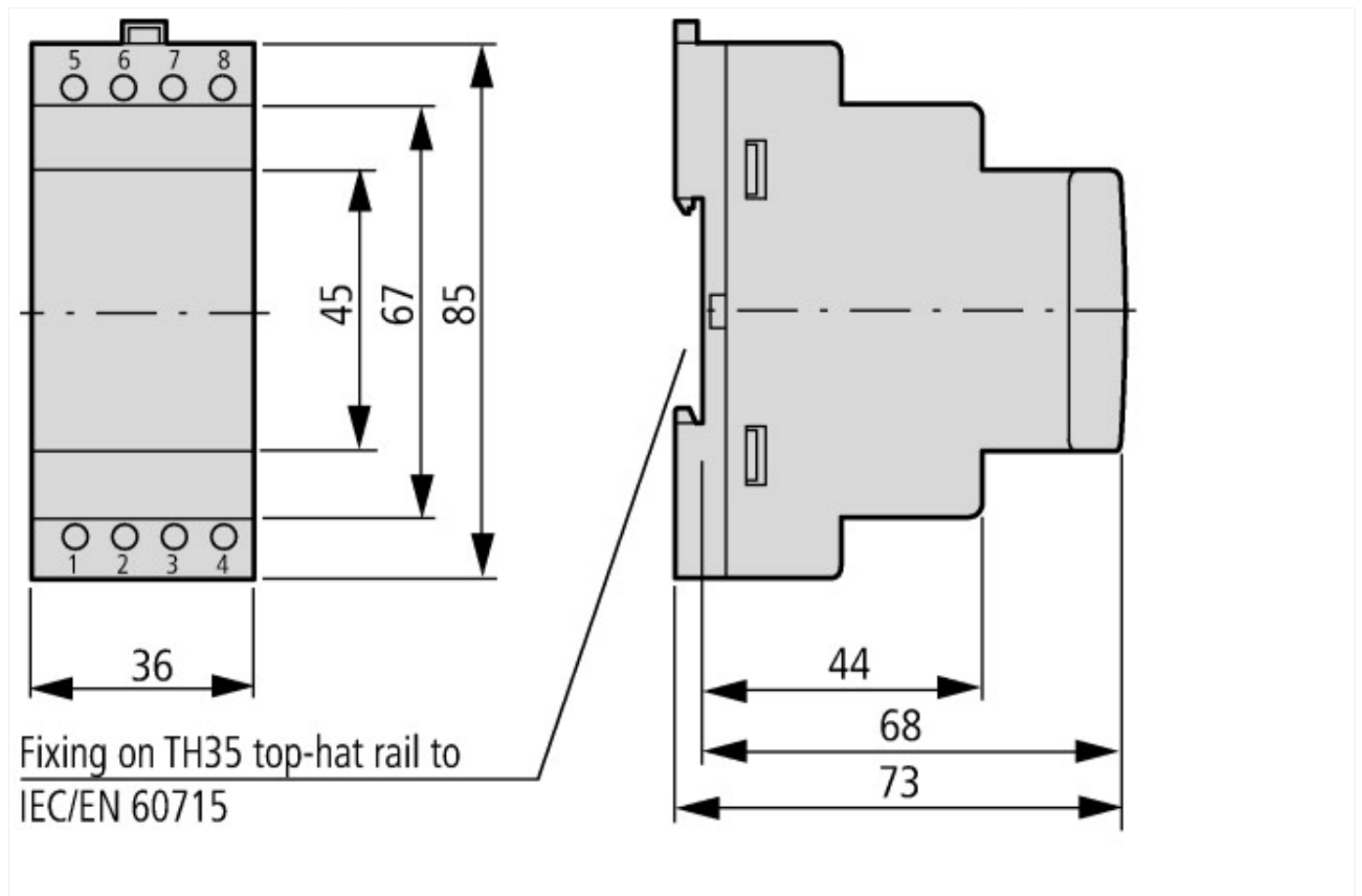
| | | | |
|--|--|----|--|
| Technical data for design verification | | | |
| Operating ambient temperature min. | | °C | -10 |
| Operating ambient temperature max. | | °C | 50 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | Meets the product standard's requirements. |
| 10.2.3.1 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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. |

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| 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 Insulation properties | | |
| 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. |
| 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

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| 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 Us at AC 50HZ | V | 184 - 276 |
| Rated control supply voltage Us at AC 60HZ | V | 184 - 276 |
| Rated control supply voltage Us at DC | V | 0 - 0 |
| Rated fault current | A | 0.03 - 5 |
| Max. power on-delay time | ms | 5000 |
| Delay adjustable | | Yes |
| Max. rated operation voltage Ue | V | 276 |

Dimensions



Additional product information (links)

IL01219036Z (AWA1230-2214) Residual-current relay: converter for earth-leakage circuit-breaker

IL01219036Z (AWA1230-2214) Residual-current relay: converter for earth-leakage circuit-breaker https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL01219036Z2011_01.pdf