# DATASHEET - PFL7-16/1N/C/003-DE

**RCD/MCB combination, 16 A, 30 mA, MCB trip characteristic: C, 1p+N, RCD trip characteristic: AC**

| Part no. | PFL7-16/1N/C/003-DE |
|---|---|
| Catalog No. | 263537 |

Similar to illustration

## Delivery program

| | | | |
|---|---|---|---|
| Basic function | | | Combined RCD/MCB devices |
| Number of poles | | | 1 pole+N |
| Tripping characteristic | | | C |
| Application | | | Switchgear for residential and commercial applications |
| Rated current | $I_n$ | A | 16 |
| Rated switching capacity according to IEC/EN 61009 | | kA | 10 |
| Rated fault current | $I_{\Delta N}$ | A | 0.03 |
| Type | | | Type AC |
| Tripping | | s… | non-delayed |
| Product range | | | PFL7 |
| Sensitivity | | | AC current sensitive |
| Impulse withstand current | | | Partly surge-proof 250 A |

## Technical data
### Electrical

| | | |
|---|---|---|
| Sensitivity | | AC current sensitive |

## Design verification as per IEC/EN 61439

| | | | |
|---|---|---|---|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | $I_n$ | A | 16 |
| Heat dissipation per pole, current-dependent | $P_{vid}$ | W | 0 |
| Equipment heat dissipation, current-dependent | $P_{vid}$ | W | 3.2 |
| Static heat dissipation, non-current-dependent | $P_{vs}$ | W | 0 |
| Heat dissipation capacity | $P_{diss}$ | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 40 |
| | | | 0 |
| 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. |
| 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 8.0

| Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905) | | | |
|---|---|---|---|
| Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / MCB/RCCB combination (ecl@ss10.0.1-27-14-22-07 [AFZ810015]) | | | |
| Number of poles (total) | | | 2 |
| Number of protected poles | | | 1 |
| Rated voltage | | V | 230 |
| Rated insulation voltage Ui | | V | 440 |
| Rated impulse withstand voltage Uimp | | kV | 4 |
| Rated current | | A | 16 |
| Rated fault current | | A | 0.03 |
| Leakage current type | | | AC |
| Current limiting class | | | 3 |
| Rated short-circuit breaking capacity according to EN 61009 | | kA | 10 |
| Rated short-circuit breaking capacity according to IEC 60947-2 | | kA | 0 |
| Rated short-circuit breaking capacity Icn according to EN 61009-1 | | kA | 10 |
| Disconnection characteristic | | | Undelayed |
| Surge current capacity | | kA | 0.25 |
| Voltage type | | | AC |
| Frequency | | | 50 Hz |
| Release characteristic | | | C |
| Concurrently switching neutral conductor | | | Yes |
| With interlocking device | | | No |
| Over voltage category | | | 3 |
| Pollution degree | | | 2 |
| Ambient temperature during operating | | °C | -25 - 40 |
| Width in number of modular spacings | | | 2 |
| Built-in depth | | mm | 69.5 |
| Flush-mounted installation | | | No |
| Anti-nuisance tripping version | | | No |
| Degree of protection (IP) | | | IP20 |
| Connectable conductor cross section solid-core | | mm² | 1 - 25 |
| Connectable conductor cross section multi-wired | | mm² | 1 - 25 |