# Specyfikacje

## Eaton 279149

Eaton Moeller series xEffect - FAZ-PN MCB. FAZ-PN, 1-pole+N, tripping characteristic: B, rated current In: 16 A

| General specifications | |
|---|---|
| **PRODUCT NAME** | Eaton Moeller series xEffect - FAZ-PN MCB |
| **CATALOG NUMBER** | 279149 |
| **EAN** | 4015082791490 |
| **PRODUCT LENGTH/DEPTH** | 80 mm |
| **PRODUCT HEIGHT** | 75.5 mm |
| **PRODUCT WIDTH** | 17.5 mm |
| **PRODUCT WEIGHT** | 0.114 kg |
| **COMPLIANCES** | RoHS conform |
| **CERTIFICATIONS** | IEC/EN 60898<br>EN45545-2<br>IEC 61373 |
| **MODEL CODE** | FAZ-PN-B16/1N |

Powering Business Worldwide

## Delivery program

| | |
|---|---|
| **APPLICATION** | • Switchgear for industrial and advanced commercial applications<br>• xEffect - Switchgear for industrial and advanced commercial applications |
| **NUMBER OF POLES** | Single-pole + N |
| **NUMBER OF POLES (TOTAL)** | 2 |
| **NUMBER OF POLES (PROTECTED)** | 1 |
| **TRIPPING CHARACTERISTIC** | B |
| **RELEASE CHARACTERISTIC** | B |
| **AMPERAGE RATING** | 16 A |
| **TYPE** | • FAZ-PN<br>• Miniature circuit breaker |

## Technical data - electrical

| | |
|---|---|
| **VOLTAGE TYPE** | AC |
| **VOLTAGE RATING** | 240 V AC / 415 V AC |
| **VOLTAGE RATING AT DC** | 60 V DC (per pole) |
| **RATED OPERATIONAL VOLTAGE (UE) - MAX** | 230 V |
| **RATED INSULATION VOLTAGE (UI)** | 440 V |
| **RATED IMPULSE WITHSTAND VOLTAGE (UIMP)** | 4 kV |
| **FREQUENCY RATING - MIN** | 50 Hz |
| **FREQUENCY RATING - MAX** | 60 Hz |
| **RATED SWITCHING CAPACITY (IEC/EN 60947-2)** | 10 kA |
| **RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 230 V** | 6 kA |
| **RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 400 V** | 6 kA |
| **RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 230 V** | 10 kA |
| **RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 400 V** | 10 kA |
| **ADMISSIBLE BACK-UP FUSE - MAX** | 100 A gL/gG |
| **SELECTIVITY CLASS** | 3 |
| **OVERVOLTAGE CATEGORY** | III |
| **POLLUTION DEGREE** | 2 |
| **LIFESPAN, ELECTRICAL** | 4000 operations |
| **DIRECTION OF INCOMING SUPPLY** | As required |

## Technical data - mechanical

| | |
|---|---|
| **FRAME** | 45 mm |
| **ENCLOSURE WIDTH** | 80 mm |
| **WIDTH IN NUMBER OF MODULAR SPACINGS** | 1 |
| **BUILT-IN DEPTH** | 70.5 mm |
| **MOUNTING WIDTH PER POLE** | 17.5 mm |
| **MOUNTING WIDTH** | 17.5 mm |
| **MOUNTING METHOD** | Top-hat rail IEC/EN 60715 |
| **DEGREE OF PROTECTION** | IP20<br>IP40 (when fitted) |
| **TERMINALS (TOP AND BOTTOM)** | Twin-purpose terminals |
| **CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN** | 1 $mm^2$ |
| **CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX** | 25 $mm^2$ |
| **CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN** | 1 $mm^2$ |
| **CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX** | 25 $mm^2$ |
| **TERMINAL CAPACITY (CONTROL CABLE)** | 16 $mm^2$ (1x) |
| **TERMINAL PROTECTION** | Finger and hand touch safe, DGUV VS3, EN 50274 |

## Design verification as per IEC/EN 61439 - technical data

| | |
|---|---|
| **AMBIENT OPERATING TEMPERATURE - MIN** | -25 °C |
| **AMBIENT OPERATING TEMPERATURE - MAX** | 75 °C |

## Design verification as per IEC/EN 61439

| | |
|---|---|
| **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** | Is the panel builder's responsibility. |

## Additional information

| | |
|---|---|
| **CURRENT LIMITING CLASS** | 3 |
| **FEATURES** | Concurrently switching N-neutral<br>Additional equipment possible |
| **USED WITH** | Miniature circuit breaker FAZ-PN |

| INSULATING MATERIAL | |
|---|---|
| **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. |

## Do pobrania

| | |
|---|---|
| **DEKLARACJE ZGODNOŚCI** | DA-DC-03_FAZ-PN |
| **INSTRUKCJE MONTAŻU** | eaton-rccb-rcbo-g9-il019140zu.pdf |
| **KATALOGI** | eaton-xeffect-faz-mcb-catalog-ca003028en-en-us.pdf |
| **MODELE ECAD** | DA-CE-ETN.FAZ-PN-B16_1N |
| **MODELE MCAD** | faz_pn_1pn.dwg<br>faz_pn_1pn.stp |
| **NOTATKI APLIKACYJNE** | eaton-maximum-cable-lengths-for-eatons-protective-devices-brochure-br034006en-en-us.pdf |
| **RYSUNKI** | eaton-mcb-xeffect-faz-pn-dimensions.eps<br>eaton-xeffect-faz-mcb-dimensions-002.jpg<br>eaton-mcb-faz-xeffect-faz-3d-drawing-002.eps |
| **SCHEMATY POŁĄCZEŃ** | eaton-xpole-mmc4-6-m-mcb-wiring-diagram.jpg<br>eaton-mcb-xeffect-faz-wiring-diagram-005.eps |

| | |
|---|---|
| **PROJECT NAME:** | |
| **PROJECT NUMBER:** | |
| **PREPARED BY:** | |
| **DATA:** | |

**Eaton Corporation plc**
Eaton House
30 Pembroke Road
Dublin 4, Irlandia
Eaton.com

© 2025 Eaton. Wszelkie prawa zastrzeżone.

Follow us on social media to get the latest product and support information.