

# Specifications

Photo is representative

## Eaton 279043

Eaton Moeller series xEffect - FAZ MCB. FAZ, 4 pole, tripping characteristic: C, rated current In: 0.25 A, rated switching capacity (IEC/EN 60947-2): 15 kA

### General specifications

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| <b>PRODUCT NAME</b>             | Eaton Moeller series<br>xEffect - FAZ MCB |
| <b>CATALOG NUMBER</b>           | 279043                                    |
| <b>MODEL CODE</b>               | FAZ-C0,25/4                               |
| <b>EAN</b>                      | 4015082790431                             |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 80 mm                                     |
| <b>PRODUCT HEIGHT</b>           | 75.5 mm                                   |
| <b>PRODUCT WIDTH</b>            | 72 mm                                     |
| <b>PRODUCT WEIGHT</b>           | 0.442 kg                                  |
| <b>COMPLIANCES</b>              | RoHS conform                              |
| <b>CERTIFICATIONS</b>           | EN45545-2<br>IEC 61373                    |
| <b>GLOBAL CATALOG</b>           | 279043                                    |

## Product specifications

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>USED WITH</b>                                                                        | Miniature circuit breaker<br>FAZ                                                                                                 |
| <b>AMPERAGE RATING</b>                                                                  | 0.25 A                                                                                                                           |
| <b>FEATURES</b>                                                                         | Additional equipment possible                                                                                                    |
| <b>10.10 TEMPERATURE RISE</b>                                                           | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| <b>10.11 SHORT-CIRCUIT RATING</b>                                                       | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                                              | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.13 MECHANICAL FUNCTION</b>                                                        | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |
| <b>10.2.2 CORROSION RESISTANCE</b>                                                      | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>                         | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>       | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Meets the product standard's requirements.                                                                                       |
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>                                 | Meets the product standard's requirements.                                                                                       |
| <b>10.2.5 LIFTING</b>                                                                   | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.6 MECHANICAL IMPACT</b>                                                         | Does not apply, since the entire switchgear needs to be evaluated.                                                               |

## Resources

|                                   |                                                                                                                                                                                                                                              |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CATALOGS</b>                   | <a href="#">eaton-xeffect-industrial-switchgear-range-catalog-ca003002en-en-us.pdf</a>                                                                                                                                                       |
| <b>CHARACTERISTIC CURVE</b>       | <a href="#">eaton-xeffect-faz-mcb-characteristic-curve.jpg</a>                                                                                                                                                                               |
| <b>DECLARATIONS OF CONFORMITY</b> | <a href="#">DA-DC-03 FAZ-B-C-D</a>                                                                                                                                                                                                           |
| <b>DRAWINGS</b>                   | <a href="#">eaton-xeffect-faz-mcb-dimensions-004.jpg</a><br><a href="#">eaton-xeffect-faz-mcb-3d-drawing-009.jpg</a><br><a href="#">eaton-xeffect-faz-mcb-3d-drawing-010.jpg</a><br><a href="#">eaton-xeffect-faz-mcb-3d-drawing-002.jpg</a> |
| <b>ECAD MODEL</b>                 | <a href="#">ETN.FAZ-C0,25_4.edz</a>                                                                                                                                                                                                          |
| <b>INSTALLATION INSTRUCTIONS</b>  | <a href="#">eaton-rccb-rcbo-g9-il019140zu.pdf</a>                                                                                                                                                                                            |
| <b>MCAD MODEL</b>                 | <a href="#">eaton-faz_mcb_4p-3d-model.stp</a><br><a href="#">eaton-faz_mcb_4p-drawing.dwg</a>                                                                                                                                                |
| <b>PEP ECO-PASSPORT</b>           | <a href="#">EATO-00047-V01.01-EN</a>                                                                                                                                                                                                         |
| <b>WIRING DIAGRAMS</b>            | <a href="#">eaton-xpole-mmc4-6-m-mcb-wiring-diagram-006.jpg</a>                                                                                                                                                                              |

|                                                                 |                                                                    |
|-----------------------------------------------------------------|--------------------------------------------------------------------|
| <b>10.2.7 INSCRIPTIONS</b>                                      | Meets the product standard's requirements.                         |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                  | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                   | Meets the product standard's requirements.                         |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                   | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>   | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>        | Is the panel builder's responsibility.                             |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                 | Is the panel builder's responsibility.                             |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                 | Is the panel builder's responsibility.                             |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                         | Is the panel builder's responsibility.                             |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b> | Is the panel builder's responsibility.                             |
| <b>POLLUTION DEGREE</b>                                         | 2                                                                  |
| <b>DEGREE OF PROTECTION</b>                                     | IP20                                                               |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>            | 8 W                                                                |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                   | 4 kV                                                               |
| <b>BREAKING CAPACITY</b>                                        | 5 kA (UL1077)                                                      |
| <b>TRIPPING CHARACTERISTIC</b>                                  | C                                                                  |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                      | 75 °C                                                              |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>                      | -25 °C                                                             |
| <b>BUILT-IN DEPTH</b>                                           | 70.5 mm                                                            |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX</b>  | 25 mm <sup>2</sup>                                                 |
| <b>CONNECTABLE CONDUCTOR CROSS</b>                              | 1 mm <sup>2</sup>                                                  |

|                                                                           |                                                                                                                                                                                           |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SECTION (MULTI-WIRED)<br/>- MIN</b>                                    |                                                                                                                                                                                           |
| <b>CONNECTABLE<br/>CONDUCTOR CROSS<br/>SECTION (SOLID-CORE) -<br/>MAX</b> | 25 mm <sup>2</sup>                                                                                                                                                                        |
| <b>CONNECTABLE<br/>CONDUCTOR CROSS<br/>SECTION (SOLID-CORE) -<br/>MIN</b> | 1 mm <sup>2</sup>                                                                                                                                                                         |
| <b>CURRENT LIMITING<br/>CLASS</b>                                         | 3                                                                                                                                                                                         |
| <b>FREQUENCY RATING -<br/>MAX</b>                                         | 60 Hz                                                                                                                                                                                     |
| <b>FREQUENCY RATING -<br/>MIN</b>                                         | 50 Hz                                                                                                                                                                                     |
| <b>HEAT DISSIPATION<br/>CAPACITY</b>                                      | 0 W                                                                                                                                                                                       |
| <b>HEAT DISSIPATION PER<br/>POLE, CURRENT-<br/>DEPENDENT</b>              | 0 W                                                                                                                                                                                       |
| <b>VOLTAGE RATING (IEC/EN<br/>60898-1)</b>                                | 415 VAC                                                                                                                                                                                   |
| <b>WIDTH IN NUMBER OF<br/>MODULAR SPACINGS</b>                            | 4                                                                                                                                                                                         |
| <b>VOLTAGE TYPE</b>                                                       | AC                                                                                                                                                                                        |
| <b>OVERVOLTAGE<br/>CATEGORY</b>                                           | III                                                                                                                                                                                       |
| <b>NUMBER OF POLES</b>                                                    | Four-pole                                                                                                                                                                                 |
| <b>RELEASE<br/>CHARACTERISTIC</b>                                         | C                                                                                                                                                                                         |
| <b>TYPE</b>                                                               | <ul style="list-style-type: none"> <li>• FAZ</li> <li>• Miniature circuit breaker</li> </ul>                                                                                              |
| <b>SPECIAL FEATURES</b>                                                   | Ambient temperature hint:<br>a 1 °C increase results in a<br>0.5% linear reduction of<br>current carrying capacity                                                                        |
| <b>APPLICATION</b>                                                        | <ul style="list-style-type: none"> <li>• Switchgear for industrial and advanced commercial applications</li> <li>• xEffect - Switchgear for industrial and advanced commercial</li> </ul> |

applications

|                                                                        |         |
|------------------------------------------------------------------------|---------|
| <b>NUMBER OF POLES (PROTECTED)</b>                                     | 4       |
| <b>NUMBER OF POLES (TOTAL)</b>                                         | 4       |
| <b>OPERATIONAL VOLTAGE (IEC/EN 60947-2) - MAX</b>                      | 440 VAC |
| <b>RATED INSULATION VOLTAGE (UI)</b>                                   | 440 V   |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>   | 0.25 A  |
| <b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>                            | 400 V   |
| <b>RATED SERVICE SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1)</b>  | 7.5 kA  |
| <b>RATED SERVICE SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60947-2)</b>  | 7.5 kA  |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 230 V</b>       | 10 kA   |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 400 V</b>       | 10 kA   |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 230 V</b>    | 15 kA   |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 400 V</b>    | 15 kA   |
| <b>RATED SWITCHING CAPACITY (IEC/EN 60898-1)</b>                       | 10 kA   |
| <b>RATED SWITCHING CAPACITY (IEC/EN 60947-2)</b>                       | 15 kA   |
| <b>RATED SWITCHING CAPACITY (IEC/EN 60947-2) AT MAX VOLTAGE RATING</b> | 10 kA   |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT</b>                  | 0 W     |
| <b>POWER LOSS</b>                                                      | 5.3 W   |

|                 |
|-----------------|
| PROJECT NAME:   |
| PROJECT NUMBER: |
| PREPARED BY:    |
| DATE:           |



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