

# Specifications



## Eaton 300355

Eaton Moeller series xEffect - FAZ MCB.  
Miniature circuit breaker (MCB), 25 A, 3p,  
characteristic: OV

### General specifications

|                         |                                           |
|-------------------------|-------------------------------------------|
| PRODUCT NAME            | Eaton Moeller series<br>xEffect - FAZ MCB |
| CATALOG NUMBER          | 300355                                    |
| MODEL CODE              | FAZ-OV25/3                                |
| EAN                     | 9010238117860                             |
| PRODUCT<br>LENGTH/DEPTH | 72.6 mm                                   |
| PRODUCT HEIGHT          | 80 mm                                     |
| PRODUCT WIDTH           | 53.1 mm                                   |
| PRODUCT WEIGHT          | 0.348 kg                                  |
| COMPLIANCES             | RoHS conform                              |

### Additional information

**CURRENT LIMITING CLASS**

3

**FEATURES**

Additional equipment possible

**SUITABLE FOR**

Flush-mounted installation

### Delivery programme

**AMPERAGE RATING**

25 A

**NUMBER OF POLES (PROTECTED)**

3

**NUMBER OF POLES (TOTAL)**

3

**RELEASE CHARACTERISTIC**

Other

## Design verification to IEC/EN 61439

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <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.                                                               |
| <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</b>                                                                  | Does not apply, since the                                                                                                        |

## Design verification to IEC/EN 61439 - technical data

|                                            |        |
|--------------------------------------------|--------|
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b> | 55 °C  |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b> | -20 °C |

|                                                                 |                                                                    |
|-----------------------------------------------------------------|--------------------------------------------------------------------|
| <b>AGAINST ELECTRIC SHOCK</b>                                   | 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.                             |

### Technical data - electrical

|                                                                              |       |
|------------------------------------------------------------------------------|-------|
| <b>FREQUENCY RATING - MAX</b>                                                | 60 Hz |
| <b>FREQUENCY RATING - MIN</b>                                                | 50 Hz |
| <b>OVERVOLTAGE CATEGORY</b>                                                  | III   |
| <b>POLLUTION DEGREE</b>                                                      | 2     |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                                | 4 kV  |
| <b>RATED INSULATION VOLTAGE (UI)</b>                                         | 440 V |
| <b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>                                  | 230 V |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1) - ICN AT 230 V</b> | 10 kA |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1)- ICN AT 400 V</b>  | 10 kA |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 230 V</b>     | 15 kA |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 400 V</b>     | 15 kA |
| <b>VOLTAGE TYPE</b>                                                          | AC    |

### Technical data - mechanical

|                                                                |                     |
|----------------------------------------------------------------|---------------------|
| <b>BUILT-IN DEPTH</b>                                          | 60 mm               |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX</b> | 16 mm <sup>2</sup>  |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN</b> | 2 mm <sup>2</sup>   |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX</b>  | 35 mm <sup>2</sup>  |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN</b>  | 1.5 mm <sup>2</sup> |
| <b>DEGREE OF PROTECTION</b>                                    | IP20                |
| <b>WIDTH IN NUMBER OF MODULAR SPACINGS</b>                     | 3                   |

## Resources

|                            |                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| CATALOGUES                 | <a href="#">eaton-xeffect-industrial-switchgear-range-catalog-ca003002en-en-us.pdf</a>                                                   |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-mcb-declaration-of-conformity-eu250395en.pdf</a><br><a href="#">eaton-mcb-declaration-of-conformity-uk251436en.pdf</a> |
| INSTALLATION INSTRUCTIONS  | <a href="#">eaton-mcb-rccb-rcbo-g9-il019140zu.pdf</a>                                                                                    |
| MCAD MODEL                 | <a href="#">faz_3p.stp</a><br><a href="#">eaton-non-selective-universal-mcb-mcad-3d-models-faz-xxx-3p.stp</a>                            |
| PEP ECO-PASSPORT           | <a href="#">eaton-non-selective-universal-mcb-pep-eato-00285-v0101-en.pdf</a>                                                            |

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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