

# Specifications



Photo is representative

## Eaton 239105

FAZ6-C25/2. Miniature circuit breaker (MCB), 25 A, 2p, characteristic: C, 6 kA

### General specifications

|                      |                                            |
|----------------------|--------------------------------------------|
| PRODUCT NAME         | Eaton Moeller series<br>xEffect - FAZ6 MCB |
| CATALOG NUMBER       | 239105                                     |
| MODEL CODE           | FAZ6-C25/2                                 |
| EAN                  | 4015082391058                              |
| PRODUCT LENGTH/DEPTH | 85 mm                                      |
| PRODUCT HEIGHT       | 73 mm                                      |
| PRODUCT WIDTH        | 35.4 mm                                    |
| PRODUCT WEIGHT       | 0.216 kg                                   |
| COMPLIANCES          | RoHS conform                               |

## Delivery programme

|                                    |      |
|------------------------------------|------|
| <b>NUMBER OF POLES (TOTAL)</b>     | 2    |
| <b>NUMBER OF POLES (PROTECTED)</b> | 2    |
| <b>RELEASE CHARACTERISTIC</b>      | C    |
| <b>AMPERAGE RATING</b>             | 25 A |

## Technical data - electrical

|                                                                       |        |
|-----------------------------------------------------------------------|--------|
| <b>VOLTAGE TYPE</b>                                                   | AC     |
| <b>VOLTAGE RATING (IEC/EN 60898-1)</b>                                | 415 V  |
| <b>VOLTAGE RATING (IEC/EN 60947-2)</b>                                | 400    |
| <b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>                           | 230 V  |
| <b>OPERATIONAL VOLTAGE (IEC/EN 60947-2) - MAX</b>                     | 400 V  |
| <b>OPERATIONAL VOLTAGE AT DC (EC/EN 60947-2) - MAX</b>                | 60 V   |
| <b>RATED INSULATION VOLTAGE (UI)</b>                                  | 440 V  |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                         | 4 kV   |
| <b>FREQUENCY RATING - MIN</b>                                         | 50 Hz  |
| <b>FREQUENCY RATING - MAX</b>                                         | 60 Hz  |
| <b>RATED SWITCHING CAPACITY (IEC/EN 60947-2)</b>                      | 7.5 kA |
| <b>RATED SERVICE SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1)</b> | 6 kA   |
| <b>RATED SERVICE SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60947-2)</b> | 10 kA  |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 230 V</b>      | 6 kA   |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 400 V</b>      | 6 kA   |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 230 V</b>   | 10 kA  |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 400 V</b>   | 10 kA  |
| <b>OVERVOLTAGE CATEGORY</b>                                           | III    |
| <b>POLLUTION DEGREE</b>                                               | 2      |

## Technical data - mechanical

|                                            |   |
|--------------------------------------------|---|
| <b>WIDTH IN NUMBER OF MODULAR SPACINGS</b> | 2 |
|--------------------------------------------|---|

|                       |         |
|-----------------------|---------|
| <b>BUILT-IN DEPTH</b> | 70.5 mm |
|-----------------------|---------|

|                             |      |
|-----------------------------|------|
| <b>DEGREE OF PROTECTION</b> | IP20 |
|-----------------------------|------|

|                                                               |                   |
|---------------------------------------------------------------|-------------------|
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN</b> | 1 mm <sup>2</sup> |
|---------------------------------------------------------------|-------------------|

|                                                               |                    |
|---------------------------------------------------------------|--------------------|
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX</b> | 25 mm <sup>2</sup> |
|---------------------------------------------------------------|--------------------|

|                                                                |                   |
|----------------------------------------------------------------|-------------------|
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN</b> | 1 mm <sup>2</sup> |
|----------------------------------------------------------------|-------------------|

|                                                                |                    |
|----------------------------------------------------------------|--------------------|
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX</b> | 25 mm <sup>2</sup> |
|----------------------------------------------------------------|--------------------|

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

|                                                                      |      |
|----------------------------------------------------------------------|------|
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 25 A |
|----------------------------------------------------------------------|------|

|                                                      |       |
|------------------------------------------------------|-------|
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b> | 6.4 W |
|------------------------------------------------------|-------|

|                                            |        |
|--------------------------------------------|--------|
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b> | -25 °C |
|--------------------------------------------|--------|

|                                            |       |
|--------------------------------------------|-------|
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b> | 75 °C |
|--------------------------------------------|-------|

## Design verification as per IEC/EN 61439

|                                                                                         |                                                                    |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <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 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</b>                                             | Is the panel builder's responsibility.                             |

## Additional information

|                               |                               |
|-------------------------------|-------------------------------|
| <b>CURRENT LIMITING CLASS</b> | 3                             |
| <b>FEATURES</b>               | Additional equipment possible |

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**INSULATING MATERIAL**

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**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.

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## Resources

|                                   |                                                                                                                                                                                    |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>APPLICATION NOTES</b>          | <a href="#">eaton-maximum-cable-lengths-for-eatons-protective-devices-brochure-br034006en-en-us.pdf</a>                                                                            |
| <b>CATALOGUES</b>                 | <a href="#">eaton-xeffect-industrial-switchgear-range-catalog-ca003002en-en-us.pdf</a><br><a href="#">eaton-xeffect-faz-mcb-catalog-ca003028en-en-us.pdf</a>                       |
| <b>CHARACTERISTIC CURVE</b>       | <a href="#">eaton-xeffect-faz6-mcb-characteristic-curve.jpg</a><br><a href="#">eaton-xeffect-faz6-mcb-characteristic-curve-002.jpg</a>                                             |
| <b>DECLARATIONS OF CONFORMITY</b> | <a href="#">eaton-mcb-declaration-of-conformity-eu250396en.pdf</a>                                                                                                                 |
| <b>DRAWINGS</b>                   | <a href="#">eaton-xeffect-faz-mcb-dimensions-002.jpg</a><br><a href="#">eaton-xeffect-faz6-mcb-3d-drawing-002.jpg</a><br><a href="#">eaton-xeffect-faz6-mcb-3d-drawing-005.jpg</a> |
| <b>INSTALLATION INSTRUCTIONS</b>  | <a href="#">eaton-rccb-rcbo-g9-il019140zu.pdf</a>                                                                                                                                  |
| <b>MCAD MODEL</b>                 | <a href="#">faz_1pn_2p.stp</a><br><a href="#">faz_1pn_2p.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-003.jpg</a>                                                                                                                    |

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



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