

# Specifications

Photo is representative

## Eaton 141909

Eaton Moeller series xEffect - FAZ-T MCB.  
FAZ-T, 1-pole, tripping characteristic: C,  
rated current In: 32 A

### General specifications

|                                 |                                             |
|---------------------------------|---------------------------------------------|
| <b>PRODUCT NAME</b>             | Eaton Moeller series<br>xEffect - FAZ-T MCB |
| <b>CATALOG NUMBER</b>           | 141909                                      |
| <b>MODEL CODE</b>               | FAZT-C32/1                                  |
| <b>EAN</b>                      | 4015081386390                               |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 80 mm                                       |
| <b>PRODUCT HEIGHT</b>           | 75.5 mm                                     |
| <b>PRODUCT WIDTH</b>            | 17.7 mm                                     |
| <b>PRODUCT WEIGHT</b>           | 0.119 kg                                    |
| <b>COMPLIANCES</b>              | RoHS conform                                |
| <b>CERTIFICATIONS</b>           | IEC/EN 60947-2<br>EN45545-2<br>IEC 61373    |
| <b>GLOBAL CATALOG</b>           | 141909                                      |

## Product specifications

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>USED WITH</b>                                                                        | Miniature circuit breaker FAZ-T                                                                                                  |
| <b>AMPERAGE RATING</b>                                                                  | 32 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>BROCHURES</b>                  | <a href="#">eaton-pdd-railrolling-stock-brochure-br011002en-en-us.pdf</a>                                                                                                                                                                                                                                                                                        |
| <b>CATALOGS</b>                   | <a href="#">eaton-xeffect-faz-t-mcb-catalog-ca003035en-en-us.pdf</a>                                                                                                                                                                                                                                                                                             |
| <b>CHARACTERISTIC CURVE</b>       | <a href="#">eaton-xeffect-faz-mcb-characteristic-curve.jpg</a><br><a href="#">eaton-mcb-characteristic-xeffect-faz-t-characteristic-curve.eps</a>                                                                                                                                                                                                                |
| <b>DECLARATIONS OF CONFORMITY</b> | <a href="#">DA-DC-03 FAZT</a>                                                                                                                                                                                                                                                                                                                                    |
| <b>DRAWINGS</b>                   | <a href="#">eaton-xeffect-faz-mcb-dimensions.jpg</a><br><a href="#">eaton-mcb-xeffect-faz-t-dimensions.eps</a><br><a href="#">eaton-xeffect-faz-t-mcb-3d-drawing-006.jpg</a><br><a href="#">eaton-mcb-faz-xeffect-faz-3d-drawing.eps</a><br><a href="#">eaton-xeffect-faz-t-mcb-3d-drawing-003.jpg</a><br><a href="#">eaton-xeffect-faz-t-mcb-3d-drawing.jpg</a> |
| <b>ECAD MODEL</b>                 | <a href="#">DA-CE-ETN.FAZT-C32_1</a>                                                                                                                                                                                                                                                                                                                             |
| <b>INSTALLATION INSTRUCTIONS</b>  | <a href="#">eaton-rccb-rcbo-g9-il019140zu.pdf</a>                                                                                                                                                                                                                                                                                                                |
| <b>MCAD MODEL</b>                 | <a href="#">eaton-fazt mcb 1p-3d-model.stp</a><br><a href="#">eaton-fazt mcb 1p-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-002.jpg</a><br><a href="#">eaton-mcb-xeffect-faz-wiring-diagram.eps</a>                                                                                                                                                                                                                                      |

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|-----------------------------------------------------------------|-----------------------------------------------------------------------|
| <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>FRAME</b>                                                    | 45 mm                                                                 |
| <b>FREQUENCY RATING</b>                                         | 50 Hz / 60 Hz                                                         |
| <b>POLLUTION DEGREE</b>                                         | 2                                                                     |
| <b>MOUNTING METHOD</b>                                          | Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715 |
| <b>DEGREE OF PROTECTION</b>                                     | IP20                                                                  |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>            | 3.7 W                                                                 |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                   | 4 kV                                                                  |
| <b>BUSBAR MATERIAL THICKNESS</b>                                | 0.8 mm (except N 0.5 SU)                                              |
| <b>TERMINAL PROTECTION</b>                                      | Finger and hand touch safe, DGUV VS3, EN 50274                        |
| <b>TERMINALS (TOP AND BOTTOM)</b>                               | Twin-purpose terminals                                                |
| <b>TRIPPING CHARACTERISTIC</b>                                  | C                                                                     |
| <b>AMBIENT OPERATING</b>                                        | 75 °C                                                                 |

|                                                                |                    |
|----------------------------------------------------------------|--------------------|
| <b>TEMPERATURE - MAX</b>                                       |                    |
| <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 SECTION (MULTI-WIRED) - 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 (SOLID-CORE) - MIN</b>  | 1 mm <sup>2</sup>  |
| <b>CURRENT LIMITING CLASS</b>                                  | 3                  |
| <b>ENCLOSURE WIDTH</b>                                         | 80 mm              |
| <b>FREQUENCY RATING - MAX</b>                                  | 60 Hz              |
| <b>FREQUENCY RATING - MIN</b>                                  | 50 Hz              |
| <b>HEAT DISSIPATION CAPACITY</b>                               | 0 W                |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT</b>            | 0 W                |
| <b>DIRECTION OF INCOMING SUPPLY</b>                            | As required        |
| <b>VOLTAGE RATING (IEC/EN 60898-1)</b>                         | 230 VAC            |
| <b>WIDTH IN NUMBER OF MODULAR SPACINGS</b>                     | 1                  |
| <b>VOLTAGE RATING (IEC/EN 60947-2)</b>                         | 240 V AC           |
| <b>VOLTAGE TYPE</b>                                            | AC                 |
| <b>MOUNTING POSITION</b>                                       | As required        |
| <b>LIFESPAN, MECHANICAL</b>                                    | 10000 operations   |
| <b>OVERVOLTAGE CATEGORY</b>                                    | III                |
| <b>NUMBER OF POLES</b>                                         | Single-pole        |
| <b>LIFESPAN, ELECTRICAL</b>                                    | 4000 operations    |

|                                                                       |                                                                                                                                                                                                        |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>RELEASE CHARACTERISTIC</b>                                         | C                                                                                                                                                                                                      |
| <b>TYPE</b>                                                           | <ul style="list-style-type: none"> <li>• FAZ-T</li> <li>• Miniature circuit breaker</li> </ul>                                                                                                         |
| <b>SPECIAL FEATURES</b>                                               | Ambient temperature hint:<br>a 1 °C increase results in a 0.5% linear reduction of 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 applications</li> </ul> |
| <b>MOUNTING WIDTH</b>                                                 | 17.5 mm                                                                                                                                                                                                |
| <b>MOUNTING WIDTH PER POLE</b>                                        | 17.5 mm                                                                                                                                                                                                |
| <b>NUMBER OF POLES (PROTECTED)</b>                                    | 1                                                                                                                                                                                                      |
| <b>NUMBER OF POLES (TOTAL)</b>                                        | 1                                                                                                                                                                                                      |
| <b>OPERATIONAL VOLTAGE (IEC/EN 60947-2) - MAX</b>                     | 254 VAC                                                                                                                                                                                                |
| <b>OPERATIONAL VOLTAGE AT DC (EC/EN 60947-2) - MAX</b>                | 60 VDC                                                                                                                                                                                                 |
| <b>RATED INSULATION VOLTAGE (UI)</b>                                  | 440 V                                                                                                                                                                                                  |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>  | 32 A                                                                                                                                                                                                   |
| <b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>                           | 240 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</b>                      | 15 kA                                                                                                                                                                                                  |

|                                                                                     |                                        |
|-------------------------------------------------------------------------------------|----------------------------------------|
| <b>60898) AT 230 V</b>                                                              |                                        |
| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY (EN<br/>60898) AT 400 V</b>            | 15 kA                                  |
| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY (IEC<br/>60947-2) AT 230 V</b>         | 25 kA                                  |
| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY (IEC<br/>60947-2) AT 400 V</b>         | 25 kA                                  |
| <b>RATED SWITCHING<br/>CAPACITY (IEC/EN 60898-<br/>1)</b>                           | 10 kA                                  |
| <b>RATED SWITCHING<br/>CAPACITY (IEC/EN 60947-<br/>2)</b>                           | 20 kA                                  |
| <b>RATED SWITCHING<br/>CAPACITY (IEC/EN 60947-<br/>2) AT MAX VOLTAGE<br/>RATING</b> | 15 kA                                  |
| <b>STATIC HEAT<br/>DISSIPATION, NON-<br/>CURRENT-DEPENDENT</b>                      | 0 W                                    |
| <b>TERMINAL CAPACITY</b>                                                            | 1 mm <sup>2</sup> - 25 mm <sup>2</sup> |
| <b>TIGHTENING TORQUE</b>                                                            | Max. 2.4 Nm                            |
| <b>POWER LOSS</b>                                                                   | 3.7 W                                  |

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|------------------------|
| <b>PROJECT NAME:</b>   |
| <b>PROJECT NUMBER:</b> |
| <b>PREPARED BY:</b>    |
| <b>DATE:</b>           |



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