

# Specifications

Photo is representative

## Eaton 278968

Eaton Moeller series xEffect - FAZ MCB. FAZ, 3-pole+N, tripping characteristic: C, rated current In: 5 A, rated switching capacity (IEC/EN 60947-2): 15 kA

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller series xEffect - FAZ MCB
<b>CATALOG NUMBER</b>	278968
<b>MODEL CODE</b>	FAZ-C5/3N
<b>EAN</b>	4015082789688
<b>PRODUCT LENGTH/DEPTH</b>	80 mm
<b>PRODUCT HEIGHT</b>	75.5 mm
<b>PRODUCT WIDTH</b>	72 mm
<b>PRODUCT WEIGHT</b>	0.424 kg
<b>COMPLIANCES</b>	RoHS conform
<b>CERTIFICATIONS</b>	EN45545-2 IEC 61373

## Delivery Programme

### APPLICATION

- Switchgear for industrial and advanced commercial applications
- xEffect - Switchgear for industrial and advanced commercial applications

NUMBER OF POLES	Three-pole + N
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NUMBER OF POLES (TOTAL)	4
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NUMBER OF POLES (PROTECTED)	3
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TRIPPING CHARACTERISTIC	C
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RELEASE CHARACTERISTIC	C
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AMPERAGE RATING	5 A
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TYPE	<ul style="list-style-type: none"> <li>• FAZ</li> <li>• Miniature circuit breaker</li> </ul>
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## Technical data - electrical

VOLTAGE TYPE	AC
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VOLTAGE RATING (IEC/EN 60898-1)	415 VAC
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RATED OPERATIONAL VOLTAGE (UE) - MAX	400 V
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OPERATIONAL VOLTAGE (IEC/EN 60947-2) - MAX	440 VAC
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RATED INSULATION VOLTAGE (UI)	440 V
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RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
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FREQUENCY RATING - MIN	50 Hz
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FREQUENCY RATING - MAX	60 Hz
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RATED SWITCHING CAPACITY (IEC/EN 60947-2) AT MAX VOLTAGE RATING	10 kA
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RATED SWITCHING CAPACITY (IEC/EN 60947-2)	15 kA
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RATED SWITCHING CAPACITY (IEC/EN 60898-1)	10 kA
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BREAKING CAPACITY	10 kA (UL1077)
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RATED SERVICE SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1)	7.5 kA
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RATED SERVICE SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60947-2)	7.5 kA
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RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 230 V	10 kA
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RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 400 V	10 kA
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RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 230 V	15 kA
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RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 400 V	15 kA
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### Technical data - mechanical

<b>WIDTH IN NUMBER OF MODULAR SPACINGS</b>	4
<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>

<b>OVERVOLTAGE CATEGORY</b>	III
<b>POLLUTION DEGREE</b>	2

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

<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	5 A
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT</b>	0 W
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>	6 W
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT</b>	0 W
<b>HEAT DISSIPATION CAPACITY</b>	0 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>	Concurrently switching N-neutral Additional equipment possible
<b>SPECIAL FEATURES</b>	Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity
<b>USED WITH</b>	FAZ Miniature circuit breaker

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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

**CATALOGUES** [eaton-xeffect-industrial-switchgear-range-catalog-ca003002en-en-us.pdf](#)

**CHARACTERISTIC CURVE** [eaton-xeffect-faz-mcb-characteristic-curve.jpg](#)

**DECLARATIONS OF CONFORMITY** [DA-DC-03 FAZ-B-C-D](#)

**DRAWINGS** [eaton-xeffect-faz-mcb-dimensions-004.jpg](#)  
[eaton-xeffect-faz-mcb-3d-drawing-009.jpg](#)  
[eaton-xeffect-faz-mcb-3d-drawing-010.jpg](#)  
[eaton-xeffect-faz-mcb-3d-drawing-002.jpg](#)

**ECAD MODEL** [ETN.FAZ-C5\\_3N.edz](#)

**INSTALLATION INSTRUCTIONS** [eaton-rccb-rcbo-g9-il019140zu.pdf](#)

**MCAD MODEL** [eaton-fazt\\_mcb\\_3pn-3d-model.stp](#)  
[eaton-faz\\_mcb\\_3pn-drawing.dwg](#)

**PEP ECO-PASSPORT** [EATO-00047-V01.01-EN](#)

**WIRING DIAGRAMS** [eaton-xpole-mmc4-6-m-mcb-wiring-diagram-004.jpg](#)

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**



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