

# Specifications

Photo is representative

## Eaton 278839

Eaton Moeller series xEffect - FAZ MCB. FAZ, 3-pole, tripping characteristic: B, rated current In: 4 A

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller series xEffect - FAZ MCB
<b>CATALOG NUMBER</b>	278839
<b>MODEL CODE</b>	FAZ-B4/3
<b>EAN</b>	4015082788391
<b>PRODUCT LENGTH/DEPTH</b>	80 mm
<b>PRODUCT HEIGHT</b>	75.5 mm
<b>PRODUCT WIDTH</b>	54 mm
<b>PRODUCT WEIGHT</b>	0.338 kg
<b>COMPLIANCES</b>	UL CSA09 (with supplementary protector only) RoHS conform
<b>CERTIFICATIONS</b>	CSA (Class No. 3215-30) CSA (File No. 204453) North America (UL recognized, CSA certified) CE marking UL 1077 CSA-C22.2 No. 235 IEC/EN 60898 UL (Category Control Number QVNU2, QVNU8) IEC/EN 60947-2 UL (File No. E177451) EN45545-2 IEC 61373
<b>GLOBAL CATALOG</b>	278839



Powering Business Worldwide

## Product specifications

<b>USED WITH</b>	FAZ Miniature circuit breaker
<b>AMPERAGE RATING</b>	4 A
<b>VOLTAGE RATING</b>	240 V AC / 415 V AC
<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

## 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-003.jpg</a> <a href="#">eaton-mcb-faz-xeffect-faz-3d-drawing-003.eps</a> <a href="#">eaton-xeffect-faz-mcb-3d-drawing-008.jpg</a> <a href="#">eaton-xeffect-faz-mcb-3d-drawing.jpg</a> <a href="#">eaton-xeffect-faz-mcb-3d-drawing-007.jpg</a>
<b>ECAD MODEL</b>	<a href="#">ETN.FAZ-B4 3.edz</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">eaton-rccb-rcbo-g9-il019140zu.pdf</a>
<b>MCAD MODEL</b>	<a href="#">eaton-faz_mcb_3p-3d-model.stp</a> <a href="#">eaton-faz_mcb_3p-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-005.jpg</a>

	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 INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>POLLUTION DEGREE</b>	2
<b>DEGREE OF PROTECTION</b>	IP20 (IEC) UL/CSA Type: - IP20
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>	4.4 W
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	4 kV
<b>BREAKING CAPACITY</b>	10 kA (UL1077)
<b>TRIPPING CHARACTERISTIC</b>	B
<b>VOLTAGE RATING (UL CSA 13)</b>	480 Y/277 V AC
<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</b>	25 mm <sup>2</sup>

<b>CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX</b>	
<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>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>VOLTAGE RATING (IEC/EN 60898-1)</b>	415 VAC
<b>WIDTH IN NUMBER OF MODULAR SPACINGS</b>	3
<b>VOLTAGE RATING (UL)</b>	480Y/277 V
<b>VOLTAGE TYPE</b>	AC
<b>OVERVOLTAGE CATEGORY</b>	III
<b>NUMBER OF POLES</b>	Three-pole
<b>RELEASE CHARACTERISTIC</b>	B
<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: 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>• Branch circuits, not as BCPD</li> </ul>

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

**NUMBER OF POLES (PROTECTED)**

3

**NUMBER OF POLES (TOTAL)**

3

**OPERATIONAL VOLTAGE (IEC/EN 60947-2) - MAX**

440 VAC

**RATED INSULATION VOLTAGE (UI)**

440 V

**RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)**

4 A

**RATED OPERATIONAL VOLTAGE (UE) - MAX**

400 V

**RATED SERVICE SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1)**

7.5 kA

**RATED SERVICE SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60947-2)**

7.5 kA

**RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 230 V**

10 kA

**RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 400 V**

10 kA

**RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 230 V**

15 kA

**RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 400 V**

15 kA

**RATED SWITCHING CAPACITY (IEC/EN 60898-1)**

10 kA

**RATED SWITCHING CAPACITY (IEC/EN 60947-2)**

15 kA

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**RATED SWITCHING  
CAPACITY (IEC/EN 60947-  
2) AT MAX VOLTAGE  
RATING**

10 kA

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**STATIC HEAT  
DISSIPATION, NON-  
CURRENT-DEPENDENT**

0 W

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**POWER LOSS**

4.6 W

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**PROJECT NAME:**

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**PROJECT NUMBER:**

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**PREPARED BY:**

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**DATE:**

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