

# Specifications



Photo is representative



## Eaton 278556

Eaton Moeller series xEffect - FAZ MCB.  
FAZ, 1-pole, tripping characteristic: C, rated  
current In: 8 A

### General specifications

PRODUCT NAME	Eaton Moeller series xEffect - FAZ MCB
CATALOG NUMBER	278556
MODEL CODE	FAZ-C8/1
EAN	4015082785567
PRODUCT LENGTH/DEPTH	80 mm
PRODUCT HEIGHT	75.5 mm
PRODUCT WIDTH	17.7 mm
PRODUCT WEIGHT	0.11 kg
COMPLIANCES	UL CSA09 (with supplementary protector only) RoHS conform
CERTIFICATIONS	CE marking CSA (Class No. 3215-30) UL (File No. E177451) IEC/EN 60947-2 UL (Category Control Number QVNU2, QVNU8) North America (UL recognized, CSA certified) IEC/EN 60898 CSA-C22.2 No. 235 CSA (File No. 204453) UL 1077 EN45545-2 IEC 61373



Powering Business Worldwide

Product specifications	
USED WITH	Miniature circuit breaker FAZ
TYPE	<ul style="list-style-type: none"> <li>FAZ</li> <li>Miniature circuit breaker</li> </ul>
SPECIAL FEATURES	Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity
APPLICATION	<ul style="list-style-type: none"> <li>Branch circuits, not as BCPD</li> <li>Switchgear for industrial and advanced commercial applications</li> <li>xEffect - Switchgear for industrial and advanced commercial applications</li> </ul>
AMPERAGE RATING	8 A
VOLTAGE RATING	240 V AC / 415 V AC
FEATURES	Additional equipment possible
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.
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT	Meets the product standard's requirements.
10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.5 LIFTING	Does not apply, since the entire

Resources	
CATALOGS	<a href="#">eaton-xeffect-industrial-switchgear-range-catalog-ca003002en-en-us.pdf</a> <a href="#">122U024</a> <a href="#">eaton-mcb-xeffect-faz-characteristic-curve-002.eps</a> <a href="#">eaton-mcb-current-xeffect-faz-characteristic-curve.eps</a> <a href="#">eaton-mcb-current-xeffect-faz-characteristic-curve-002.eps</a> <a href="#">eaton-mcb-tripping-characteristic-xeffect-faz-characteristic-curve-002.eps</a> <a href="#">122U023 122U051</a> <a href="#">eaton-mcb-xeffect-faz-characteristic-curve.eps</a> <a href="#">KL FAZ trip B C D</a> <a href="#">122U025 122U026</a> <a href="#">eaton-xeffect-faz-mcb-characteristic-curve.jpg</a>
CHARACTERISTIC CURVE	
DECLARATIONS OF CONFORMITY	<a href="#">DA-DC-03 FAZ-B-C-D</a>
DRAWINGS	<a href="#">eaton-mcb-xeffect-faz-dimensions.eps</a> <a href="#">Mas FAZ 1 1220DIM-54</a> <a href="#">eaton-xeffect-faz-mcb-dimensions.jpg</a> <a href="#">eaton-xeffect-faz-mcb-3d-drawing-002.jpg</a> <a href="#">FAZ idl C 122I083</a> <a href="#">FAZ idl C 60947 FAZ i2t C</a> <a href="#">eaton-mcb-faz-xeffect-faz-3d-drawing.eps</a> <a href="#">eaton-xeffect-faz-mcb-3d-drawing-009.jpg</a> <a href="#">eaton-xeffect-faz-mcb-3d-drawing-010.jpg</a>
ECAD MODEL	<a href="#">ETN.FAZ-C8_1</a>
INSTALLATION INSTRUCTIONS	<a href="#">IL019140ZU</a> <a href="#">faz_1p.dwg</a> <a href="#">eaton-cadenas-path-03-geo-faz_1p.3db</a>
MCAD MODEL	<a href="#">eaton-cadenas-front view-faz_1p.front.pra</a> <a href="#">faz_1p.stp</a>

	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 INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>FRAME</b>	45 mm
<b>POLLUTION DEGREE</b>	2
<b>MOUNTING METHOD</b>	Top-hat rail IEC/EN 60715
<b>DEGREE OF PROTECTION</b>	IP40 (when fitted) IP20 IP20 (IEC) UL/CSA Type: -
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>	2.1 W
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	4 kV
<b>ADMISSIBLE BACK-UP FUSE - MAX</b>	125 A gL/gG
<b>BREAKING CAPACITY</b>	10 kA (UL1077)
<b>BUSBAR MATERIAL THICKNESS</b>	0.8 mm - 2 mm
<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>VOLTAGE RATING (UL CSA 13)</b>	277 V AC; 48 V DC

	<a href="#">eaton-cadenas-side_view-faz_1p_side.pra</a>
<b>PEP ECO-PASSPORT</b>	<a href="#">EATO-00047-V01.01-EN</a>
	<a href="#">eaton-xpole-mmc4-6-m-mcb-wiring-diagram-002.jpg</a>
<b>WIRING DIAGRAMS</b>	<a href="#">eaton-mcb-xeffect-faz-wiring-diagram.eps</a>
	<a href="#">PLS_1P_122S100</a>

<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 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>	240 VAC
<b>WIDTH IN NUMBER OF MODULAR SPACINGS</b>	1
<b>VOLTAGE RATING (UL)</b>	277 V
<b>VOLTAGE RATING AT DC</b>	60 V DC (per pole)
<b>VOLTAGE TYPE</b>	AC
<b>MOUNTING POSITION</b>	As required
<b>OVERVOLTAGE CATEGORY</b>	III
<b>NUMBER OF POLES</b>	Single-pole
<b>LIFESPAN, ELECTRICAL</b>	10000 operations
<b>RELEASE CHARACTERISTIC</b>	C
<b>MOUNTING WIDTH</b>	17.5 mm
<b>SELECTIVITY CLASS</b>	3
<b>MOUNTING WIDTH PER POLE</b>	17.5 mm
<b>NUMBER OF POLES (PROTECTED)</b>	1
<b>NUMBER OF POLES</b>	1

<b>(TOTAL)</b>	
<b>OPERATIONAL SWITCHING CAPACITY</b>	7.5 kA
<b>OPERATIONAL VOLTAGE (IEC/EN 60947-2) - MAX</b>	254 VAC
<b>RATED INSULATION VOLTAGE (UI)</b>	440 V
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	8 A
<b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>	230 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 60898) AT 230 V</b>	10 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 400 V</b>	10 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 230 V</b>	15 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 400 V</b>	15 kA
<b>RATED SWITCHING CAPACITY (IEC/EN 60898-1)</b>	10 kA
<b>RATED SWITCHING CAPACITY (IEC/EN 60947-2)</b>	15 kA
<b>RATED SWITCHING CAPACITY (IEC/EN 60947-2) AT MAX VOLTAGE RATING</b>	10 kA
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT</b>	0 W
<b>TERMINAL CAPACITY (CONTROL CABLE)</b>	25 mm <sup>2</sup> (1x)
<b>TERMINAL CAPACITY OF SCREW TERMINALS FOR MAIN CABLE</b>	10 mm <sup>2</sup> (2x)
<b>POWER LOSS</b>	1.3 W

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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**Eaton Corporation plc**

Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com

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