

# Specifications



Photo is representative

## Eaton 240884

Eaton Moeller series xEffect - FAZ-T MCB.  
FAZ-T, 3-pole, tripping characteristic: B,  
rated current In: 20 A

### General specifications

PRODUCT NAME	Eaton Moeller series xEffect - FAZ-T MCB
CATALOG NUMBER	240884
MODEL CODE	FAZT-B20/3
EAN	4015082408848
PRODUCT LENGTH/DEPTH	80 mm
PRODUCT HEIGHT	75.5 mm
PRODUCT WIDTH	54 mm
PRODUCT WEIGHT	0.356 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947-2 EN45545-2 IEC 61373



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## Product specifications

<b>USED WITH</b>	Miniature circuit breaker FAZ-T
<b>AMPERAGE RATING</b>	20 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>CATALOGUES</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> <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-mcb-xeffect-faz-t-dimensions.eps</a> <a href="#">eaton-xeffect-faz-mcb-dimensions-003.jpg</a> <a href="#">eaton-xeffect-faz-t-mcb-3d-drawing-005.jpg</a> <a href="#">eaton-mcb-faz-xeffect-faz-3d-drawing-003.eps</a> <a href="#">eaton-xeffect-faz-t-mcb-3d-drawing-002.jpg</a> <a href="#">eaton-xeffect-faz-t-mcb-3d-drawing.jpg</a>
<b>ECAD MODEL</b>	<a href="#">DA-CE-ETN.FAZT-B20_3</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">eaton-rccb-rcbo-g9-il019140zu.pdf</a>
<b>MCAD MODEL</b>	<a href="#">faz_3p.stp</a> <a href="#">faz_3p.dwg</a>
<b>PEP ECO-PASSPORT</b>	<a href="#">EATO-00047-V01.01-EN</a>
<b>WIRING DIAGRAMS</b>	<a href="#">eaton-mcb-xeffect-faz-wiring-diagram-003.eps</a> <a href="#">eaton-xpole-mmc4-6-m-mcb-wiring-diagram-005.jpg</a>

<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>	9.8 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>	B
<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>	400 VAC
<b>WIDTH IN NUMBER OF MODULAR SPACINGS</b>	3
<b>VOLTAGE RATING (IEC/EN 60947-2)</b>	415 V
<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>	Three-pole
<b>LIFESPAN, ELECTRICAL</b>	4000 operations

<b>RELEASE CHARACTERISTIC</b>	B
<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: 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>	3
<b>NUMBER OF POLES (TOTAL)</b>	3
<b>OPERATIONAL VOLTAGE (IEC/EN 60947-2) - MAX</b>	440 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>	20 A
<b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>	440 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 BREAKING CAPACITY (EN 60898) AT 400 V</b>	15 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 230 V</b>	20 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 400 V</b>	20 kA
<b>RATED SWITCHING CAPACITY (IEC/EN 60898- 1)</b>	15 kA
<b>RATED SWITCHING CAPACITY (IEC/EN 60947- 2)</b>	25 kA
<b>RATED SWITCHING CAPACITY (IEC/EN 60947- 2) AT MAX VOLTAGE RATING</b>	15 kA
<b>STATIC HEAT DISSIPATION, NON- 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>	9.8 W

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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