



Eaton 278927

Eaton Moeller series xEffect - FAZ MCB.
Miniature circuit breaker (MCB), 16 A, 3p,
characteristic: Z

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PRODUCT NAME	Eaton Moeller series xEffect - FAZ MCB
CATALOG NUMBER	278927
PRODUCT LENGTH/DEPTH	80 mm
PRODUCT HEIGHT	75.5 mm
PRODUCT WIDTH	54 mm
PRODUCT WEIGHT	0.333 kg
COMPLIANCES	UL CSA09 (with supplementary protector only) RoHS conform
CERTIFICATIONS	IEC/EN 60947-2 CE marking IEC/EN 60898 UL 1077 CSA (File No. 204453) North America (UL recognized, CSA certified) CSA (Class No. 3215-30) UL (Category Control Number QVNU2, QVNU8) CSA-C22.2 No. 235 UL (File No. E177451) EN45545-2 IEC 61373

AMPERAGE RATING	16 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 switchgear needs to be evaluated.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
10.3 DEGREE OF PROTECTION OF	Does not apply, since the entire switchgear needs to

CHARACTERISTIC CURVE

[eaton-xeffect-faz-mcb-characteristic-curve-005.jpg](#)

[eaton-xeffect-faz-mcb-characteristic-curve-006.jpg](#)

[eaton-mcb-current-xeffect-faz-characteristic-curve-002.eps](#)

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[eaton-mcb-characteristic-xeffect-faz-characteristic-curve-007.eps](#)

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[eaton-mcb-tripping-characteristic-xeffect-faz-characteristic-curve-002.eps](#)

[eaton-mcb-characteristic-xeffect-faz-characteristic-curve-004.eps](#)

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[eaton-xpole-mm4-6-mcb-wiring-diagram-005.jpg](#)

[eaton-mcb-xeffect-faz-wiring-diagram-003.eps](#)

[eaton-mcb-xeffect-faz-dimensions-003.eps](#)

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[eaton-xeffect-faz-mcb-3d-drawing-006.jpg](#)

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ASSEMBLIES	be evaluated.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be evaluated.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be evaluated.
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
FRAME	45 mm
POLLUTION DEGREE	2
MOUNTING METHOD	Top-hat rail IEC/EN 60715
DEGREE OF PROTECTION	UL/CSA Type: - IP20 IP20 (IEC) IP40 (when fitted)
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	10.7 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
ADMISSIBLE BACK-UP FUSE - MAX	125 A gL/gG
BUSBAR MATERIAL THICKNESS	0.8 mm - 2 mm
TERMINAL PROTECTION	Finger and hand touch safe, DGUV VS3, EN 50274
TERMINALS (TOP AND BOTTOM)	Twin-purpose terminals
TRIPPING CHARACTERISTIC	Z
VOLTAGE RATING (UL CSA 13)	480 Y/277 V AC
AMBIENT OPERATING TEMPERATURE - MAX	75 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C

BUILT-IN DEPTH	70.5 mm
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	25 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	25 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	1 mm ²
CURRENT LIMITING CLASS	3
ENCLOSURE WIDTH	80 mm
FREQUENCY RATING - MAX	60 Hz
FREQUENCY RATING - MIN	50 Hz
HEAT DISSIPATION CAPACITY	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT	0 W
DIRECTION OF INCOMING SUPPLY	As required
WIDTH IN NUMBER OF MODULAR SPACINGS	3
VOLTAGE RATING AT DC	60 V DC (per pole)
VOLTAGE TYPE	AC
MOUNTING POSITION	As required
OVERVOLTAGE CATEGORY	III
NUMBER OF POLES	Three-pole
LIFESPAN, ELECTRICAL	10000 operations
RELEASE CHARACTERISTIC	Z
TYPE	• FAZ • Miniature circuit breaker
SPECIAL FEATURES	Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity

APPLICATION

- Branch circuits, not as BCPD
- Switchgear for industrial and advanced commercial applications
- xEffect - Switchgear for industrial and advanced commercial applications

MOUNTING WIDTH 17.5 mm**SELECTIVITY CLASS** 3**MOUNTING WIDTH PER POLE** 17.5 mm**NUMBER OF POLES (PROTECTED)** 3**NUMBER OF POLES (TOTAL)** 3**OPERATIONAL SWITCHING CAPACITY** 7.5 kA**RATED INSULATION VOLTAGE (UI)** 440 V**RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)** 16 A**RATED OPERATIONAL VOLTAGE (UE) - MAX** 400 V**RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1) - ICN AT 230 V** 0 kA**RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1)- ICN AT 400 V** 0 kA**RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 230 V** 10 kA**RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 400 V** 10 kA**RATED SWITCHING CAPACITY (IEC/EN 60947-2)** 10 kA**STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT** 0 W**TERMINAL CAPACITY (CONTROL CABLE)** 25 mm² (1x)

TERMINAL CAPACITY OF SCREW TERMINALS FOR MAIN CABLE	10 mm ² (2x)
POWER LOSS	10.7 W

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:



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