Eaton 278874

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

PRODUCT NAME	Eaton Moeller series xEffect - FAZ MCB
CATALOG NUMBER	278874
PRODUCT LENGTH/DEPTH	80 mm
PRODUCT HEIGHT	75.5 mm
PRODUCT WIDTH	54 mm
PRODUCT WEIGHT	0.334 kg
COMPLIANCES	UL CSA09 (with supplementary protector only) RoHS conform
CERTIFICATIONS	North America (UL recognized, CSA certified) UL (Category Control Number QVNU2, QVNU8) IEC/EN 60898 CSA (Class No. 3215-30) CSA-C22.2 No. 235 UL 1077 CSA (File No. 204453) UL (File No. E177451) IEC/EN 60947-2 CE marking EN45545-2 IEC 61373
CATALOG NOTES	C CURVE

Powering Business Worldwide

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USED WITH	Miniature circuit breaker FAZ
AMPERAGE RATING	20 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.

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CHARACTERISTIC CURVE	eaton-mcb-xeffect-faz-characteristic-curve.eps eaton-mcb-current-xeffect-faz-characteristic-curve.eps eaton-xeffect-faz-mcb-characteristic-curve.jpg eaton-mcb-xeffect-faz-characteristic-curve-002.eps eaton-mcb-current-xeffect-faz-characteristic-curve-002.eps eaton-mcb-tripping-characteristic-xeffect-faz-characteristic-curve-002.eps
□□□	eaton-mcb-xeffect-faz-wiring-diagram-003.eps eaton-xpole-mmc4-6-m-mcb-wiring-diagram-005.jpg
□□	eaton-mcb-xeffect-faz-dimensions-003.eps eaton-xeffect-faz-mcb-dimensions-003.jpg eaton-xeffect-faz-mcb-3d-drawing-010.jpg eaton-xeffect-faz-mcb-3d-drawing-002.jpg eaton-xeffect-faz-mcb-3d-drawing-009.jpg eaton-mcb-faz-xeffect-faz-3d-drawing-003.eps

10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to 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	IP40 (when fitted) UL/CSA Type: - IP20 IP20 (IEC)
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	9.8 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
ADMISSIBLE BACK-UP FUSE - MAX	125 A gL/gG
BREAKING CAPACITY	10 kA (UL1077)
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	C
VOLTAGE RATING (UL CSA 13)	480 Y/277 V AC
AMBIENT OPERATING	75 °C

TEMPERATURE - MAX	
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
BUILT-IN DEPTH	70.5 mm
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	25 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	25 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	1 mm²
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
VOLTAGE RATING (IEC/EN 60898-1)	415 VAC
WIDTH IN NUMBER OF MODULAR SPACINGS	3
VOLTAGE RATING (UL)	480Y/277 V
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	C

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
OPERATIONAL VOLTAGE (IEC/EN 60947-2) - MAX	440 VAC
RATED INSULATION VOLTAGE (UI)	440 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	20 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	400 V
RATED SERVICE SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1) - ICS	7.5 kA
RATED SERVICE SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60947-2) - ICS	7.5 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1) - ICN AT 230 V	10 kA

RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1)- ICN AT 400 V	10 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 230 V	15 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 400 V	15 kA
RATED SWITCHING CAPACITY (IEC/EN 60898-1)	10 kA
RATED SWITCHING CAPACITY (IEC/EN 60947-2)	15 kA
RATED SWITCHING CAPACITY (IEC/EN 60947-2) AT MAX VOLTAGE RATING	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 mm² (2x)
POWER LOSS	10.2 W

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
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Eaton House
30 Pembroke Road
Dublin 4, □□□
Eaton.com

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