## Specifications



## Photo is representative





## Eaton 278731

Eaton Moeller series xEffect - FAZ MCB. FAZ, 2-pole, tripping characteristic: B, rated current In: 12 A

General specification	nS
PRODUCT NAME	Eaton Moeller series xEffect - FAZ MCB
CATALOG NUMBER	278731
MODEL CODE	FAZ-B12/2
EAN	4015082787318
PRODUCT LENGTH/DEPTH	80 mm
PRODUCT HEIGHT	75.5 mm
PRODUCT WIDTH	36 mm
PRODUCT WEIGHT	0.222 kg
COMPLIANCES	UL CSA09 (with supplementary protector only) RoHS conform
CERTIFICATIONS	CE marking UL 1077 UL (File No. E177451) CSA (Class No. 3215-30) North America (UL recognized, CSA certified) UL (Category Control Number QVNU2, QVNU8) CSA (File No. 204453) CSA-C22.2 No. 235 IEC/EN 60947-2 IEC/EN 60898 EN45545-2 IEC 61373
GLOBAL CATALOG	278731



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Resources	
CATALOGS	eaton-xeffect-industrial- switchgear-range-catalog- ca003002en-en-us.pdf
CHARACTERISTIC CURVE	eaton-mcb-tripping- characteristic-xeffect-faz- characteristic-curve- 002.eps
	eaton-mcb-xeffect-faz- characteristic-curve- 002.eps
	eaton-xeffect-faz-mcb- characteristic-curve.jpg
	eaton-mcb-current- xeffect-faz-characteristic- curve-002.eps
	eaton-mcb-current- xeffect-faz-characteristic- curve.eps
	eaton-mcb-xeffect-faz- characteristic-curve.eps
DECLARATIONS OF CONFORMITY	DA-DC-03 FAZ-B-C-D
	eaton-xeffect-faz-mcb- dimensions-002.jpg
	eaton-mcb-xeffect-faz-
	<u>dimensions-002.eps</u>
DRAWINGS	eaton-xeffect-faz-mcb-3d- drawing.jpg
DRAWINGS	eaton-xeffect-faz-mcb-3d- drawing-008.jpg
	eaton-xeffect-faz-mcb-3d-drawing-007.jpg
	eaton-mcb-faz-xeffect-faz- 3d-drawing-002.eps
ECAD MODEL	DA-CE-ETN.FAZ-B12 2
INSTALLATION INSTRUCTIONS	eaton-rccb-rcbo-g9- il019140zu.pdf
MCAD MODEL	faz 1pn 2p.dwg faz 1pn 2p.stp
PEP ECO-PASSPORT	EATO-00047-V01.01-EN
WIRING DIAGRAMS	eaton-mcb-xeffect-faz- wiring-diagram-002.eps

	be evaluated.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls 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) IP20 (IEC) UL/CSA Type: - IP20
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	5.9 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
THICKINESS	
TERMINAL PROTECTION	Finger and hand touch safe, DGUV VS3, EN 50274

eaton-xpole-mmc4-6-mmcb-wiring-diagram-003.jpg

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TRIPPING CHARACTERISTIC	В
VOLTAGE RATING (UL CSA 13)	480 Y/277 V AC; 96 V DC
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 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	2
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	Two-pole
LIFESPAN, ELECTRICAL	10000 operations
RELEASE CHARACTERISTIC	В
ТҮРЕ	<ul><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> <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>
MOUNTING WIDTH	17.5 mm
SELECTIVITY CLASS	3
MOUNTING WIDTH PER POLE	17.5 mm
NUMBER OF POLES (PROTECTED)	2
NUMBER OF POLES (TOTAL)	2
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)	12 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	400 V
RATED SERVICE SHORT- CIRCUIT BREAKING CAPACITY (IEC/EN 60898-	7.5 kA

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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
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	5.4 W

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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