Specifications



Photo is representative





Eaton 278681

Eaton Moeller series xEffect - FAZ MCB. FAZ, 1-pole+N, tripping characteristic: D, rated current In: 0.5 A, rated switching capacity (IEC/EN 60947-2): 15 kA

General specifications	
PRODUCT NAME	Eaton Moeller series xEffect - FAZ MCB
CATALOG NUMBER	278681
MODEL CODE	FAZ-D0,5/1N
EAN	4015082786816
PRODUCT LENGTH/DEPTH	80 mm
PRODUCT HEIGHT	75.5 mm
PRODUCT WIDTH	36 mm
PRODUCT WEIGHT	0.198 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	EN45545-2 IEC 61373



Delivery Programme	
APPLICATION	 Switchgear for industrial and advanced commercial applications xEffect - Switchgear for industrial and advanced commercial applications
NUMBER OF POLES	Single-pole + N
NUMBER OF POLES (TOTAL)	2
NUMBER OF POLES (PROTECTED)	1
TRIPPING CHARACTERISTIC	D
RELEASE CHARACTERISTIC	D
AMPERAGE RATING	0.5 A
ТҮРЕ	FAZMiniature circuit breaker

Technical data - elect	rical
VOLTAGE TYPE	AC
RATED OPERATIONAL VOLTAGE (UE) - MAX	230 V
RATED INSULATION VOLTAGE (UI)	440 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
FREQUENCY RATING - MIN	50 Hz
FREQUENCY RATING - MAX	60 Hz
RATED SWITCHING CAPACITY (IEC/EN 60947- 2)	15 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
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	2

Technical data - mechanical	
WIDTH IN NUMBER OF MODULAR SPACINGS	2
BUILT-IN DEPTH	70.5 mm
DEGREE OF PROTECTION	IP20
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	1 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	25 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	25 mm²

Design verification as per IEC/EN 61439 - technical data

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0.5 A
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	0 W
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	1.3 W
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT	0 W
HEAT DISSIPATION CAPACITY	0 W
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE - MAX	75 °C

Design verification as	per IEC/EN 61439
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 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	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF	ls the panel builder's responsibility.

Additional information	
CURRENT LIMITING CLASS	3
FEATURES	Additional equipment possible Concurrently switching N-neutral
SPECIAL FEATURES	Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity
USED WITH	Miniature circuit breaker FAZ

INSULATING MATERIAL	
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.

Resources	
CATALOGUES	eaton-xeffect-industrial- switchgear-range-catalog- ca003002en-en-us.pdf
CHARACTERISTIC CURVE	<u>eaton-xeffect-faz-mcb-</u> <u>characteristic-curve.jpg</u>
DECLARATIONS OF	DA-DC-03_FAZ-B-C-D
CONFORMITY	DA-DC-03_FAZ-DU
DRAWINGS	eaton-xeffect-faz-mcb- dimensions-002.jpg
	eaton-xeffect-faz-mcb-3d-drawing-003.jpg
	eaton-xeffect-faz-mcb-3d- drawing-011.jpg
	eaton-xeffect-faz-mcb-3d- drawing-012.jpg
ECAD MODEL	ETN.FAZ-D0,5_1N.edz
INSTALLATION INSTRUCTIONS	eaton-rccb-rcbo-g9- il019140zu.pdf
MCAD MODEL	eaton-faz mcb 1pn 2p- drawing.dwg
	eaton-faz mcb 1pn 2p-3d- model.stp
PEP ECO-PASSPORT	EATO-00047-V01.01-EN
WIRING DIAGRAMS	eaton-xpole-mmc4-6-m- mcb-wiring-diagram.jpg

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



Eaton Corporation plc

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

© 2025 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.









