



Eaton 120648

Eaton Moeller series xEffect - FAZ-NA-DC MCB. FAZ-DC, 2-pole, C, 32 A, rated switching capacity acc. to IEC/EN 60947-2: 10 kA, UL

□□□□

PRODUCT NAME	Eaton Moeller series xEffect - FAZ-NA-DC MCB
CATALOG NUMBER	120648
PRODUCT LENGTH/DEPTH	105 mm
PRODUCT HEIGHT	75.5 mm
PRODUCT WIDTH	35.4 mm
PRODUCT WEIGHT	0.258 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	UL 489, CSA C22.2 No. 5 IEC 60947-2 EN45545-2 IEC 61373

AMPERAGE RATING	32 A
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 ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.

CHARACTERISTIC CURVE	eaton-xeffect-faz-na-dc-mcb-characteristic-curve.jpg
□□□	eaton-xeffect-faz-dc-mcb-wiring-diagram-002.jpg
□□□□	eaton-xeffect-faz-na-dc-mcb-catalog-ca003033en-en-us.pdf
□□	eaton-xeffect-faz-dc-mcb-dimensions-004.jpg
□□□□□□	eaton-maximum-cable-lengths-for-eatons-protective-devices-brochure-br034006en-en-us.pdf

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.
POLLUTION DEGREE	2
DEGREE OF PROTECTION	IP20
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	6.8 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
TRIPPING CHARACTERISTIC	C
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
FREQUENCY RATING - MAX	60 Hz
FREQUENCY RATING - MIN	50 Hz
HEAT DISSIPATION CAPACITY	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	0 W
WIDTH IN NUMBER OF MODULAR SPACINGS	2
VOLTAGE RATING AT DC	500 V DC
VOLTAGE TYPE	DC
OVERVOLTAGE CATEGORY	III
NUMBER OF POLES	Two-pole
RELEASE CHARACTERISTIC	C

TYPE	<ul style="list-style-type: none"> • FAZ-DC • Miniature circuit breaker
-------------	---

SPECIAL FEATURES	Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity
-------------------------	---

APPLICATION	Switchgear for export to North America (UL-listed)
--------------------	--

NUMBER OF POLES (PROTECTED)	2
------------------------------------	---

NUMBER OF POLES (TOTAL)	2
--------------------------------	---

RATED INSULATION VOLTAGE (UI)	440 V
--------------------------------------	-------

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	32 A
--	------

RATED OPERATIONAL VOLTAGE (UE) - MAX	250 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	10 kA
----------------------------	-------

BREAKING CAPACITY (IEC 60947-2)- ICU AT 230 V	
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
POWER LOSS	6.8 W

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:



0000
Eaton House
30 Pembroke Road
Dublin 4, 0000
Eaton.com

© 2025 00 00000000

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

