# Specifications

#### Photo is representative

## Eaton 176082

Eaton Moeller series xEffect - FAZ-DC MCB. Miniature circuit breaker (MCB), 20 A, 2p, characteristic: B, DC

General specifications	
PRODUCT NAME	Eaton Moeller series xEffect - FAZ-DC MCB
CATALOG NUMBER	176082
MODEL CODE	FAZ-B20/2-DC
EAN	4015081712786
PRODUCT LENGTH/DEPTH	80 mm
PRODUCT HEIGHT	75.5 mm
PRODUCT WIDTH	36 mm
PRODUCT WEIGHT	0.222 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	EN45545-2 IEC 61373
GLOBAL CATALOG	176082



## Product specifications

USED WITH	Miniature circuit breaker FAZ-DC
AMPERAGE RATING	20 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.

Resources	
BROCHURES	<u>eaton-pdd-railrolling-</u> <u>stock-brochure-</u> <u>br011002en-en-us.pdf</u>
CATALOGS	<u>eaton-xeffect-faz-dc-mcb-</u> <u>catalog-ca003030en-en-</u> <u>us.pdf</u>
	<u>eaton-xeffect-faz-dc-mcb-</u> <u>characteristic-curve.jpg</u>
CHARACTERISTIC CURVE	<u>eaton-xeffect-faz-dc-mcb-</u> <u>characteristic-curve-</u> <u>002.jpg</u>
DECLARATIONS OF CONFORMITY	DA-DC-03_FAZ-DC
	DA-DC-03 FAZ-B-C-D
DRAWINGS	<u>eaton-xeffect-faz-dc-mcb-</u> <u>dimensions-002.jpg</u>
ECAD MODEL	ETN.FAZ-B20 2-DC.edz
INSTALLATION INSTRUCTIONS	<u>eaton-rccb-rcbo-g9-</u> <u>il019140zu.pdf</u>
MCAD MODEL	eaton-faz_mcb_2p- drawing.dwg
	<u>eaton-faz_mcb_2p-3d-</u> <u>model.stp</u>
WIRING DIAGRAMS	eaton-xeffect-faz-dc-mcb- wiring-diagram-002.jpg

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.
POLLUTION DEGREE	2
DEGREE OF PROTECTION	IP20
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	6.6 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
TRIPPING CHARACTERISTIC	В
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

25 mm²
1 mm²
3
60 Hz
50 Hz
0 W
0 W
2
DC
DC III
III Two-pole
III Two-pole B • FAZ-DC • Miniature circuit
III Two-pole B • FAZ-DC • Miniature circuit breaker Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of
III Two-pole B • FAZ-DC • Miniature circuit breaker Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity Switchgear for DC
III Two-pole B FAZ-DC • Miniature circuit breaker Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity Switchgear for DC applications
III Two-pole B FAZ-DC • Miniature circuit breaker Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity Switchgear for DC applications 2
III Two-pole B FAZ-DC • Miniature circuit breaker Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity Switchgear for DC applications 2 2

RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 230 V	0 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 400 V	0 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 230 V	10 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 400 V	10 kA
RATED SWITCHING CAPACITY (IEC/EN 60947- 2)	10 kA
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT	0 W
POWER LOSS	5.8 W

### **PROJECT NAME:**

**PROJECT NUMBER:** 

PREPARED BY:

DATE:



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