

Specifications



Photo is representative

Eaton 241170

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

General specifications

PRODUCT NAME	Eaton Moeller series xEffect - FAZ-T MCB
CATALOG NUMBER	241170
MODEL CODE	FAZT-C20/3N
EAN	4015082411701
PRODUCT LENGTH/DEPTH	80 mm
PRODUCT HEIGHT	75.5 mm
PRODUCT WIDTH	72 mm
PRODUCT WEIGHT	0.472 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947-2 EN45545-2 IEC 61373



Powering Business Worldwide

Product specifications

USED WITH	Miniature circuit breaker FAZ-T
AMPERAGE RATING	20 A
FEATURES	Additional equipment possible Concurrently switching N-neutral
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

Resources

BROCHURES	eaton-pdd-railrolling-stock-brochure-br011002en-en-us.pdf
CHARACTERISTIC CURVE	eaton-mcb-characteristic-xeffect-faz-t-characteristic-curve.eps eaton-xeffect-faz-mcb-characteristic-curve.jpg
DECLARATIONS OF CONFORMITY	eaton-mcb-declaration-of-conformity-eu250398en.pdf eaton-mcb-declaration-of-conformity-uk251437en.pdf
DRAWINGS	eaton-mcb-xeffect-faz-t-dimensions.eps eaton-xeffect-faz-mcb-dimensions-004.jpg eaton-mcb-mccb-xeffect-faz-t-3d-drawing.eps eaton-xeffect-faz-t-mcb-3d-drawing-006.jpg eaton-xeffect-faz-t-mcb-3d-drawing-003.jpg eaton-xeffect-faz-t-mcb-3d-drawing.jpg
ECAD MODEL	DA-CE-ETN.FAZT-C20_3N
INSTALLATION INSTRUCTIONS	eaton-mcb-rccb-rcbo-g9-il019140zu.pdf
MCAD MODEL	eaton-non-selective-universal-mcb-mcad-3d-models-faz-xxx-4p.stp
PEP ECO-PASSPORT	eaton-non-selective-universal-mcb-pep-eato-00047-v0101-en.pdf
WIRING DIAGRAMS	eaton-mcb-xeffect-faz-wiring-diagram-006.eps eaton-xpole-mmc4-6-m-mcb-wiring-diagram-004.jpg

	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	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
FREQUENCY RATING	50 Hz / 60 Hz
POLLUTION DEGREE	2
LIFESPAN, MECHANICAL	10000 operations
MOUNTING METHOD	Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715
DEGREE OF PROTECTION	IP20
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	10.1 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
BUSBAR MATERIAL THICKNESS	0.8 mm (except N 0.5 SU)
TERMINAL PROTECTION	Finger and hand touch safe, DGUV VS3, EN 50274
TERMINALS (TOP AND BOTTOM)	Twin-purpose terminals
TRIPPING CHARACTERISTIC	C
AMBIENT OPERATING TEMPERATURE - MAX	75 °C
AMBIENT OPERATING	-25 °C

TEMPERATURE - MIN	
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
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)	400 VAC
WIDTH IN NUMBER OF MODULAR SPACINGS	4
VOLTAGE RATING (IEC/EN 60947-2)	415 V
VOLTAGE TYPE	AC
MOUNTING POSITION	As required
OVERVOLTAGE CATEGORY	III
NUMBER OF POLES	Three-pole + N
LIFESPAN, ELECTRICAL	4000 operations
RELEASE CHARACTERISTIC	C
TYPE	• FAZ-T • 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 industrial and advanced commercial applications - xEffect - Switchgear for industrial and advanced commercial applications
MOUNTING WIDTH	17.5 mm
MOUNTING WIDTH PER POLE	17.5 mm
NUMBER OF POLES (PROTECTED)	3
NUMBER OF POLES (TOTAL)	4
OPERATIONAL VOLTAGE (IEC/EN 60947-2) - MAX	440 VAC
OPERATIONAL VOLTAGE AT DC (EC/EN 60947-2) - MAX	60 VDC
RATED INSULATION VOLTAGE (UI)	440 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	20 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	440 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	15 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1)- ICN AT 400 V	15 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 230 V	20 kA

RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 400 V	20 kA
RATED SWITCHING CAPACITY (IEC/EN 60898- 1)	15 kA
RATED SWITCHING CAPACITY (IEC/EN 60947- 2)	25 kA
RATED SWITCHING CAPACITY (IEC/EN 60947- 2) AT MAX VOLTAGE RATING	15 kA
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT	0 W
TERMINAL CAPACITY	1 mm ² - 25 mm ²
TIGHTENING TORQUE	Max. 2.4 Nm
POWER LOSS	10.1 W

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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

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