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Eaton 211781

Eaton Moeller series xEffect - AZ MCB.
Miniature circuit breaker (MCB) AZ, 3 pole,
Tripping characteristic: C, Rated current In: 32
A

General specifications

PRODUCT NAME	Eaton Moeller series xEffect - AZ MCB
CATALOG NUMBER	211781
EAN	4015082117818
PRODUCT LENGTH/DEPTH	90 mm
PRODUCT HEIGHT	75 mm
PRODUCT WIDTH	81 mm
PRODUCT WEIGHT	0.68 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947-2 EN45545-2 IEC 61373
MODEL CODE	AZ-3-C32

APPLICATION	- Switchgear for industrial and advanced commercial applications - xEffect - Switchgear for industrial and advanced commercial applications
NUMBER OF POLES	Three-pole
NUMBER OF POLES (TOTAL)	3
NUMBER OF POLES (PROTECTED)	3
TRIPPING CHARACTERISTIC	C
RELEASE CHARACTERISTIC	C
AMPERAGE RATING	32 A
TYPE	- AZ - Miniature circuit breaker

VOLTAGE TYPE	AC
VOLTAGE RATING	230 V AC / 400 V AC
RATED OPERATIONAL VOLTAGE (UE) - MAX	400 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)	25 kA
OPERATIONAL SWITCHING CAPACITY	20 kA
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	25 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 400 V	25 kA
ADMISSIBLE BACK-UP FUSE - MAX	200 A gL/gG
SELECTIVITY CLASS	3
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	2
LIFESPAN, ELECTRICAL	10000 operations
DIRECTION OF INCOMING SUPPLY	As required

Technické údaje – mechanické	
FRAME	45 mm
ENCLOSURE WIDTH	90 mm
WIDTH IN NUMBER OF MODULAR SPACINGS	4.5
BUILT-IN DEPTH	75 mm
MOUNTING WIDTH PER POLE	27 mm
MOUNTING WIDTH	27 mm
MOUNTING METHOD	Top-hat rail IEC/EN 60715
DEGREE OF PROTECTION	IP20 IP40 (when fitted)

Ověření návrhu podle ČSN EN 61439 – technické údaje	
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	32 A
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	3.8 W
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	11.4 W
STATIC HEAT	0 W

TERMINALS (TOP AND BOTTOM)	Lift terminals
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	2.5 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	50 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	2.5 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	50 mm ²
TERMINAL CAPACITY (CONTROL CABLE)	2.5 mm ² - 50 mm ²
TERMINAL PROTECTION	Finger and hand touch safe, DGUV VS3, EN 50274

DISSIPATION, NON-CURRENT-DEPENDENT	
HEAT DISSIPATION CAPACITY	0 W
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE - MAX	55 °C

Ověření návrhu podle ČSN 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	Does not apply, since the entire

Další informace	
CURRENT LIMITING CLASS	3
FEATURES	Additional equipment possible Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity
SPECIAL FEATURES	
USED WITH	Miniature circuit breaker AZ

SWITCHING DEVICES AND COMPONENTS	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.
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.

Zdroje

APLIKAČNÍ POZNÁMKY

[eaton-quality-standards-for-railway-applications-application-paper-ap003005en-en-us.pdf](#)

[eaton-maximum-cable-lengths-for-eatons-protective-devices-brochure-br034006en-en-us.pdf](#)

DECLARATIONS OF CONFORMITY

[DA-DC-03_AZ](#)

ECAD MODEL

[DA-CE-ETN.AZ-3-C32](#)

CHARACTERISTIC CURVE

[AZ_i2t_c](#)

[eaton-mcb-current-xeffect-az-characteristic-curve-002.eps](#)

[122U020](#)

[eaton-xeffect-az-mcb-characteristic-curve-004.jpg](#)

[122U022](#) [122U019](#)

[eaton-mcb-current-xeffect-az-characteristic-curve.eps](#)

	122U021 AZ Durchlassstrom C eaton-mcb-xeffect-az-characteristic-curve.eps eaton-xeffect-az-mcb-characteristic-curve-002.jpg 122U015 eaton-mcb-tripping-characteristic-xeffect-az-characteristic-curve.eps eaton-mcb-xeffect-az-characteristic-curve-002.eps
INSTALAČNÍ NÁVODY	IL019148ZU
MCAD MODEL	eaton-cadenas-front_view-az_3p_front.pra eaton-cadenas-side_view-az_3p_side.pra DA-CS-az_3p DA-CD-az_3p eaton-cadenas-path-03-geo-az_3p.3db
SCHÉMATA ZAPOJENÍ	eaton-mcb-xeffect-faz-wiring-diagram-003.eps eaton-xpole-mm4-6-m-mcb-wiring-diagram-005.jpg PLS_3P_122S102
VÝKRESY	eaton-mcb-xeffect-az-dimensions-004.eps Mas_PLHT eaton-xpole-mmct-mcb-dimensions.jpg 122X061 eaton-xeffect-az-mcb-3d-drawing.jpg eaton-mcb-faz-xeffect-faz-3d-drawing-003.eps 122I085 AZ_UMG eaton-xeffect-az-mcb-3d-drawing-002.jpg AZ_BLOCK

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATUM:



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