

Eaton 211809

Eaton Moeller series xEffect - AZ MCB.
Miniature circuit breaker (MCB) AZ, 1 pole,
Tripping characteristic: C, Rated current In:
125 A

General specifications

PRODUCT NAME	Eaton Moeller series xEffect - AZ MCB
CATALOG NUMBER	211809
EAN	4015082118099
PRODUCT LENGTH/DEPTH	90 mm
PRODUCT HEIGHT	75 mm
PRODUCT WIDTH	27 mm
PRODUCT WEIGHT	0.218 kg
COMPLIANCES	CE Marked RoHS conform
CERTIFICATIONS	IEC/EN 60947-2 EN45545-2 IEC 61373
MODEL CODE	AZ-C125

Delivery program

APPLICATION

- Switchgear for industrial and advanced commercial applications
- xEffect - Switchgear for industrial and advanced commercial applications

NUMBER OF POLES	Single-pole
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NUMBER OF POLES (TOTAL)	1
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NUMBER OF POLES (PROTECTED)	1
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TRIPPING CHARACTERISTIC	C
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RELEASE CHARACTERISTIC	C
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AMPERAGE RATING	125 A
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TYPE

- AZ
- Miniature circuit breaker

Technical Data - Electrical

VOLTAGE TYPE	AC
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VOLTAGE RATING	230 V AC / 400 V AC
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VOLTAGE RATING AT DC	60 V DC (per pole)
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RATED OPERATIONAL VOLTAGE (UE) - MAX	230 V
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RATED INSULATION VOLTAGE (UI)	440 V
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RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
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FREQUENCY RATING - MIN	50 Hz
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FREQUENCY RATING - MAX	60 Hz
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RATED SWITCHING CAPACITY (IEC/EN 60947-2)	15 kA
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OPERATIONAL SWITCHING CAPACITY	20 kA
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ADMISSIBLE BACK-UP FUSE - MAX	200 A gL/gG
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SELECTIVITY CLASS	3
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LIFESPAN, ELECTRICAL	10000 operations
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OVERVOLTAGE CATEGORY	III
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POLLUTION DEGREE	2
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DIRECTION OF INCOMING SUPPLY	As required
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Technical Data - Mechanical

FRAME	45 mm
ENCLOSURE WIDTH	90 mm
WIDTH IN NUMBER OF MODULAR SPACINGS	1.5
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)
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

Design verification as per IEC/EN 61439 - technical data

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	125 A
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	11.9 W
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	11.89 W 11.9 W
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT	0 W
HEAT DISSIPATION CAPACITY	0 W
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE - MAX	55 °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	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

Additional information

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

	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-maximum-cable-lengths-for-eatons-protective-devices-brochure-br034006en-en-us.pdf
	eaton-quality-standards-for-railway-applications-application-paper-ap003005en-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-mcb-declaration-of-conformity-eu250431en.pdf
ECAD MODEL	DA-CE-ETN.AZ-C125
CHARACTERISTIC CURVE	eaton-mcb-current-xeffect-az-characteristic-curve.eps
	eaton-mcb-xeffect-az-characteristic-curve.eps
	eaton-xeffect-az-mcb-characteristic-curve-004.jpg
	eaton-mcb-current-xeffect-az-characteristic-curve-002.eps
	eaton-mcb-tripping-characteristic-xeffect-az-characteristic-curve.eps
	eaton-mcb-xeffect-az-characteristic-curve-002.eps
SCHÉMATA ZAPOJENÍ	eaton-xeffect-az-mcb-characteristic-curve-002.jpg
	eaton-xpole-mmc4-6-m-mcb-wiring-diagram-002.jpg
VÝKRESY	eaton-mcb-xeffect-faz-wiring-diagram.eps
	eaton-xpole-mmct-mcb-dimensions.jpg
	eaton-mcb-xeffect-az-dimensions.eps
	eaton-mcb-faz-xeffect-faz-3d-drawing.eps

[eaton-xeffect-az-mcb-3d-drawing.jpg](#)

[eaton-xeffect-az-mcb-3d-drawing-002.jpg](#)

NÁZEV PROJEKTU:

ČÍSLO PROJEKTU:

PŘIPRAVIL:

DATUM:



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