

Specifications

Photo is representative

Eaton 211796

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

General specifications

PRODUCT NAME	Eaton Moeller series xEffect - AZ MCB
CATALOG NUMBER	211796
MODEL CODE	AZ-3-C63
EAN	4015082117962
PRODUCT LENGTH/DEPTH	90 mm
PRODUCT HEIGHT	75 mm
PRODUCT WIDTH	81 mm
PRODUCT WEIGHT	0.691 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947-2 EN45545-2 IEC 61373



Powering Business Worldwide

Delivery program

APPLICATION	<ul style="list-style-type: none"> • Switchgear for industrial and advanced commercial applications • xEffect - Switchgear for industrial and advanced commercial applications
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NUMBER OF POLES	Three-pole
NUMBER OF POLES (TOTAL)	3
NUMBER OF POLES (PROTECTED)	3
TRIPPING CHARACTERISTIC	C
RELEASE CHARACTERISTIC	C
AMPERAGE RATING	63 A
TYPE	<ul style="list-style-type: none"> • AZ • Miniature circuit breaker

Technical Data - Electrical

VOLTAGE TYPE	AC
VOLTAGE RATING	230 V AC / 400 V AC
VOLTAGE RATING AT DC	60 V DC (per pole)
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
ADMISSIBLE BACK-UP FUSE - MAX	200 A gL/gG
SELECTIVITY CLASS	3
LIFESPAN, ELECTRICAL	10000 operations
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	2
DIRECTION OF INCOMING SUPPLY	As required

Technical Data - Mechanical

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	IP40 (when fitted) IP20
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)	63 A
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	5.2 W
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	15.6 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

	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.

Resources

APPLICATION NOTES	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
BROCHURES	eaton-pdd-railrolling-stock-brochure-br011002en-en-us.pdf
CHARACTERISTIC CURVE	eaton-mcb-xeffect-az-characteristic-curve.eps eaton-xeffect-az-mcb-characteristic-curve-004.jpg eaton-mcb-xeffect-az-characteristic-curve-002.eps eaton-mcb-tripping-characteristic-xeffect-az-characteristic-curve.eps eaton-mcb-current-xeffect-az-characteristic-curve-002.eps eaton-mcb-current-xeffect-az-characteristic-curve.eps eaton-xeffect-az-mcb-characteristic-curve-002.jpg
DECLARATIONS OF CONFORMITY	eaton-mcb-declaration-of-conformity-eu250431en.pdf
DRAWINGS	eaton-mcb-xeffect-az-dimensions-004.eps eaton-xpole-mmct-mcb-dimensions.jpg eaton-xeffect-az-mcb-3d-drawing-002.jpg eaton-mcb-faz-xeffect-faz-3d-drawing-003.eps eaton-xeffect-az-mcb-3d-drawing.jpg
ECAD MODEL	ETN.AZ-3-C63
INSTALLATION	IL019148ZU

INSTRUCTIONS

MCAD MODEL [DA-CS-az_3p DA-CD-az_3p](#)

PEP ECO-PASSPORT [eaton-non-selective-universal-mcb-pep-eato-00259-v0101-en.pdf](#)

WIRING DIAGRAMS [eaton-xpole-mmc4-6-m-mcb-wiring-diagram-005.jpg](#)
[eaton-mcb-xeffect-faz-wiring-diagram-003.eps](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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

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