Specificații

Imaginile sunt doar cu titlu informativ

Eaton 211803

Eaton Moeller series xEffect - AZ MCB. Miniature circuit breaker (MCB) AZ, 3 pole+N, Tripping characteristic: C, Rated current In: 80 A

General specifications	
PRODUCT NAME	Eaton Moeller series xEffect - AZ MCB
CATALOG NUMBER	211803
EAN	4015082118037
PRODUCT LENGTH/DEPTH	90 mm
PRODUCT HEIGHT	75 mm
PRODUCT WIDTH	108 mm
PRODUCT WEIGHT	0.858 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947-2 EN45545-2 IEC 61373
CATALOG NOTES	Positioned for medium inrush startup currents to provide protection for small transformers and pilot devices.
MODEL CODE	AZ-3N-C80

Powering Business Worldwide

Delivery program

APPLICATION	• Switchgear for industrial and advanced commercial applications • xEffect - Switchgear for industrial and advanced commercial applications
NUMBER OF POLES	Three-pole + N
NUMBER OF POLES (TOTAL)	4
NUMBER OF POLES (PROTECTED)	3
TRIPPING CHARACTERISTIC	C
RELEASE CHARACTERISTIC	C
AMPERAGE RATING	80 A
TYPE	• 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)	20 kA
OPERATIONAL SWITCHING CAPACITY	20 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1) - ICN AT 230 V	0 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1)- ICN AT 400 V	0 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
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

Technical data - mechanical

FRAME	45 mm
ENCLOSURE WIDTH	90 mm
WIDTH IN NUMBER OF MODULAR SPACINGS	6
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 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	50 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	2.5 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	50 mm²
TERMINAL CAPACITY (CONTROL CABLE)	2.5 mm² - 50 mm²
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)	80 A
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	7.1 W
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	22.13 W 21.3 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 Concurrently switching N-neutral
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.

Resurse	
CHARACTERISTIC CURVE	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-xeffect-az-mcb-characteristic-curve-004.jpg eaton-mcb-current-xeffect-az-characteristic-curve.eps eaton-xeffect-az-mcb-characteristic-curve-002.jpg eaton-mcb-xeffect-az-characteristic-curve.eps
DESENE	eaton-mcb-xeffect-az-dimensions-004.eps eaton-xpole-mmct-mcb-dimensions.jpg eaton-mcb-xeffect-az-dimensions-002.eps eaton-xeffect-az-mcb-3d-drawing.jpg eaton-xeffect-az-mcb-3d-drawing-002.jpg eaton-mcb-faz-xeffect-faz-3d-drawing-004.eps
NOTE DE APLICAȚIE	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
SCHEME ELECTRICE	eaton-mcb-xeffect-faz-wiring-diagram-006.eps eaton-xpole-mmc4-6-m-mcb-wiring-diagram-004.jpg

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATA:	

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

Follow us on social media to get the latest product and support information.