

Specyfikacje



Zdjęcie jest reprezentatywne

Eaton 111939

Eaton Moeller series Power Defense - Molded Case Circuit Breaker. Circuit-breaker LZM, 3 p, 200A, C2-A200-I

General specifications

PRODUCT NAME	Eaton Moeller series Power Defense molded case circuit-breaker
CATALOG NUMBER	111939
EAN	4015081114870
PRODUCT LENGTH/DEPTH	142 mm
PRODUCT HEIGHT	185 mm
PRODUCT WIDTH	105 mm
PRODUCT WEIGHT	2.345 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947 IEC VDE 0660
MODEL CODE	LZMC2-A200-I



Powering Business Worldwide

Delivery program

CIRCUIT BREAKER FRAME TYPE LzM2

APPLICATION Use in unearthed supply systems at 690 V

AMPERAGE RATING 200 A

NUMBER OF POLES Three-pole

Technical data - electrical

VOLTAGE RATING 690 V - 690 V

RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS 6000 V

RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS 8000 V

RATED OPERATIONAL CURRENT 300 A (690 V AC-1, making and breaking capacity)
300 A (380/400 V AC-1, making and breaking capacity)
200 A (415 V AC-3, making and breaking capacity)
300 A (415 V AC-1, making and breaking capacity)
200 A (660-690 V AC-3, making and breaking capacity)

INSTANTANEOUS CURRENT SETTING (II) - MIN 1200 A

INSTANTANEOUS CURRENT SETTING (II) - MAX 2000 A

OVERLOAD CURRENT SETTING (IR) - MIN 160 A

OVERLOAD CURRENT SETTING (IR) - MAX 200 A

SHORT DELAY CURRENT SETTING (ISD) - MIN 0 A

SHORT DELAY CURRENT SETTING (ISD) - MAX 0 A

SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN 1200 A

SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX 2000 A

RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 HZ 55 kA

RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 HZ 36 kA

RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 440 V, 50/60 HZ	22.5 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 525 V, 50/60 HZ	6 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ	121 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 HZ	76 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 HZ	63 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 525 V, 50/60 HZ	24 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 690 V, 50/60 HZ	14 kA
SHORT-CIRCUIT TOTAL BREAKTIME	< 10 ms
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
ISOLATION	300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)
OVERVOLTAGE CATEGORY	III
UTILIZATION CATEGORY	A (IEC/EN 60947-2)
POLLUTION DEGREE	3
LIFESPAN, ELECTRICAL	7500 operations at 690 V AC-1 10000 operations at 400 V AC-1 5000 operations at 690 V AC-3 6500 operations at 415 V AC-3 7500 operations at 415 V AC-1

Technical data - mechanical

TYPE	Circuit breaker
RELEASE SYSTEM	Thermomagnetic release
MOUNTING METHOD	Fixed Built-in device fixed built-in technique DIN rail (top hat rail) mounting optional
DEGREE OF PROTECTION	IP20 In the area of the HMI devices: IP20 (basic protection type)
DEGREE OF PROTECTION (IP), FRONT SIDE	IP66 (with door coupling rotary handle) IP40 (with insulating surround)
DEGREE OF PROTECTION (TERMINATIONS)	IP10 (tunnel terminal) IP00 (terminations, phase isolator and band terminal)
PROTECTION AGAINST DIRECT CONTACT	Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110
SHOCK RESISTANCE	20 g (half-sinusoidal shock 20 ms)
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF OPERATIONS PER HOUR - MAX	120
HANDLE TYPE	Rocker lever
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Front side
DIRECTION OF INCOMING SUPPLY	As required
STANDARD TERMINALS	Screw terminal
TERMINAL CAPACITY (COPPER BUSBAR)	M8 at rear-side screw connection
TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	16 mm ² (1x) at tunnel terminal

Design verification as per IEC/EN 61439 - technical data

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) 200 A

EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT 48 W

CLIMATIC PROOFING

Damp heat, constant, to
IEC 60068-2-78
Damp heat, cyclic, to IEC
60068-2-30

LIFESPAN, MECHANICAL

20000 operations

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	Is the panel builder's responsibility.

Additional information

FEATURES	Protection unit Motor drive optional
FUNCTIONS	System and cable protection
SPECIAL FEATURES	- Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity I_{cn}) - Rated current = rated uninterrupted current: 200 A

INSULATING MATERIAL

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.

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CHARACTERISTIC CURVE

[eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-031.eps](#)

[eaton-circuit-breaker-nzm-mccb-characteristic-curve-050.eps](#)

[eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-035.eps](#)

DEKLARACJE ZGODNOŚCI

[eaton-molded-case-circuit-breaker-declaration-of-conformity-eu250119en.pdf](#)

INSTRUKCJE MONTAŻU

[eaton-circuit-breaker-basic-unit-lzm2-il01206012z.pdf](#)

RYSUNKI

[eaton-circuit-breaker-nzm-mccb-dimensions-019.eps](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATA:



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