

Specificații



Imaginile sunt doar cu titlu informativ

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

APPLICATION Use in unearthed supply systems at 690 V

TYPE Circuit breaker

CIRCUIT BREAKER FRAME TYPE LZM2

NUMBER OF POLES Three-pole

AMPERAGE RATING 200 A

RELEASE SYSTEM Thermomagnetic release

FEATURES Protection unit
Motor drive optional

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

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)

AMPERAGE RATING 200 A

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 22.5 kA

(IEC/EN 60947) AT 440 V, 50/60 HZ	
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)
NUMBER OF OPERATIONS PER HOUR - MAX	120
HANDLE TYPE	Rocker lever
UTILIZATION CATEGORY	A (IEC/EN 60947-2)
OVERVOLTAGE CATEGORY	III
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
DIRECTION OF INCOMING SUPPLY	As required

Technical Data - Mechanical

MOUNTING METHOD	Fixed Built-in device fixed built-in technique DIN rail (top hat rail) mounting optional
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DEGREE OF PROTECTION	IP20 In the area of the HMI devices: IP20 (basic protection type)
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DEGREE OF PROTECTION (IP), FRONT SIDE	IP66 (with door coupling rotary handle) IP40 (with insulating surround)
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DEGREE OF PROTECTION (TERMINATIONS)	IP10 (tunnel terminal) IP00 (terminations, phase isolator and band terminal)
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PROTECTION AGAINST DIRECT CONTACT	Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110
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SHOCK RESISTANCE	20 g (half-sinusoidal shock 20 ms)
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NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
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NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
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NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
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POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Front side
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CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
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SPECIAL FEATURES	<ul style="list-style-type: none"> Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit
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Technical Data - Mechanical - Terminals

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
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breaker (Rated short-circuit breaking capacity Icn)

- Rated current = rated uninterrupted current: 200 A

LIFESPAN, MECHANICAL 20000 operations

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

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 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.

Additional information

FUNCTIONS

System and cable protection

Resurse

	eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-031.eps
CHARACTERISTIC CURVE	eaton-circuit-breaker-nzm-mccb-characteristic-curve-050.eps eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-035.eps
DESENE	eaton-circuit-breaker-nzm-mccb-dimensions-019.eps
INSTRUCȚIUNI DE INSTALARE	eaton-circuit-breaker-basic-unit-lzm2-il01206012z.pdf

DENUMIREA PROIECTULUI:

NUMĂRUL PROIECTULUI:

PREGĂTIT DE:

DATA:



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