

# Specifications



Photo is representative

## Eaton 111955

Eaton Moeller series Power Defense - Molded Case Circuit Breaker. Circuit-breaker, 3 p, 400A, C, 3

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller series Power Defense molded case circuit-breaker
<b>CATALOG NUMBER</b>	111955
<b>MODEL CODE</b>	LZMC3-A400-I
<b>EAN</b>	4015081115037
<b>PRODUCT LENGTH/DEPTH</b>	166 mm
<b>PRODUCT HEIGHT</b>	275 mm
<b>PRODUCT WIDTH</b>	140 mm
<b>PRODUCT WEIGHT</b>	5.8 kg
<b>COMPLIANCES</b>	RoHS conform
<b>CERTIFICATIONS</b>	VDE 0660 IEC IEC/EN 60947
<b>PRODUCT TYPE</b>	Molded case circuit breaker



Powering Business Worldwide

## Delivery program

**CIRCUIT BREAKER FRAME TYPE** LZM3

**APPLICATION** Use in unearthed supply systems at 690 V

**AMPERAGE RATING** 400 A

**NUMBER OF POLES** Three-pole

## Technical data - electrical

**VOLTAGE RATING** 690 V - 690 V

**VOLTAGE RATING (DC)** 750 VDC

**RATED INSULATION VOLTAGE (UI)** 1000 V AC

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

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

**RATED OPERATIONAL CURRENT** 500 A (415 V AC-1, making and breaking capacity)  
400 A (415 V AC-3, making and breaking capacity)  
500 A (380/400 V AC-1, making and breaking capacity)  
400 A (660-690 V AC-3, making and breaking capacity)  
500 A (690 V AC -1, making and breaking capacity)

**RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S)** 3.3 kA

**RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)** 3.3 kA

**INSTANTANEOUS CURRENT SETTING (II) - MIN** 2400 A

**INSTANTANEOUS CURRENT SETTING (II) - MAX** 4000 A

**OVERLOAD CURRENT SETTING (IR) - MIN** 320 A

**OVERLOAD CURRENT SETTING (IR) - MAX** 400 A

**SHORT DELAY CURRENT SETTING (ISD) - MIN** 0 A

**SHORT DELAY CURRENT SETTING (ISD) - MAX** 0 A

**SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN** 2400 A

**SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX** 4000 A

**RATED SHORT-CIRCUIT** 55 kA

<b>BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 HZ</b>	
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 HZ</b>	36 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 440 V, 50/60 HZ</b>	22.5 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 525 V, 50/60 HZ</b>	9 kA
<b>RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ</b>	121 kA
<b>RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 HZ</b>	76 kA
<b>RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 HZ</b>	63 kA
<b>RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 525 V, 50/60 HZ</b>	24 kA
<b>RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 690 V, 50/60 HZ</b>	14 kA
<b>SHORT-CIRCUIT TOTAL BREAKTIME</b>	< 10 ms
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection
<b>ISOLATION</b>	500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)
<b>OVERVOLTAGE CATEGORY</b>	III
<b>UTILIZATION CATEGORY</b>	A (IEC/EN 60947-2)
<b>POLLUTION DEGREE</b>	3
<b>LIFESPAN, ELECTRICAL</b>	5000 operations at 400 V AC-1 2000 operations at 400 V AC-3 3000 operations at 690 V AC-1 2000 operations at 690 V AC-3

## Technical data - mechanical

<b>TYPE</b>	Circuit breaker
<b>RELEASE SYSTEM</b>	Thermomagnetic release
<b>MOUNTING METHOD</b>	Built-in device fixed built-in technique Fixed
<b>DEGREE OF PROTECTION</b>	IP20 In the area of the HMI devices: IP20 (basic protection type)
<b>DEGREE OF PROTECTION (IP), FRONT SIDE</b>	IP40 (with insulating surround) IP66 (with door coupling rotary handle)
<b>DEGREE OF PROTECTION (TERMINATIONS)</b>	IP00 (terminations, phase isolator and band terminal) IP10 (tunnel terminal)
<b>PROTECTION AGAINST DIRECT CONTACT</b>	Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110
<b>SHOCK RESISTANCE</b>	20 g (half-sinusoidal shock 20 ms)
<b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	0
<b>NUMBER OF OPERATIONS PER HOUR - MAX</b>	60
<b>HANDLE TYPE</b>	Rocker lever
<b>POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT</b>	Front side
<b>DIRECTION OF INCOMING SUPPLY</b>	As required
<b>STANDARD TERMINALS</b>	Screw terminal
<b>TERMINAL CAPACITY (COPPER BUSBAR)</b>	M10 at rear-side screw connection
<b>TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)</b>	16 mm <sup>2</sup> - 185 mm <sup>2</sup> (1x) at tunnel terminal
<b>CLIMATIC PROOFING</b>	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78

## Design verification as per IEC/EN 61439 - technical data

<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	400 A
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>	72.48 W

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**LIFESPAN, MECHANICAL** 15000 operations

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## Design verification as per IEC/EN 61439

<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Meets the product standard's requirements.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the

## Additional information

<b>FEATURES</b>	Protection unit Motor drive optional
<b>FUNCTIONS</b>	System and cable protection
<b>SPECIAL FEATURES</b>	<ul style="list-style-type: none"> <li>• 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<sub>cn</sub>)</li> <li>• Rated current = rated uninterrupted current: 400 A</li> </ul>

	temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## Resources

	<a href="#">eaton-circuit-breaker-tripping-characteristic-nzm-mccb-characteristic-curve.eps</a>
CHARACTERISTIC CURVE	<a href="#">eaton-circuit-breaker-nzm-mccb-characteristic-curve-035.eps</a> <a href="#">eaton-circuit-breaker-nzm-mccb-characteristic-curve-032.eps</a>
DECLARATIONS OF CONFORMITY	<a href="#">eaton-molded-case-circuit-breaker-declaration-of-conformity-eu250120en.pdf</a>
DRAWINGS	<a href="#">eaton-circuit-breaker-switch-nzm-mccb-dimensions-016.eps</a> <a href="#">eaton-circuit-breaker-nzm-mccb-dimensions-020.eps</a> <a href="#">eaton-circuit-breaker-switch-nzm-mccb-3d-drawing-002.eps</a>
INSTALLATION INSTRUCTIONS	<a href="#">eaton-circuit-breaker-basic-unit-lzm3-il01208013z.pdf</a>
INSTALLATION VIDEOS	<a href="#">Power Defense EMEA</a>

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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