



Eaton 112017

Eaton Moeller series Power Defense - Molded Case Circuit Breaker. Switch-disconnector, 4 p, 1000A, frame size 4

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PRODUCT NAME	Eaton Moeller series Power Defense molded case switch-disconnector
CATALOG NUMBER	112017
PRODUCT LENGTH/DEPTH	401 mm
PRODUCT HEIGHT	207 mm
PRODUCT WIDTH	280 mm
PRODUCT WEIGHT	22 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC

AMPERAGE RATING 1000 A

VOLTAGE RATING 690 V - 690 V

CIRCUIT BREAKER FRAME TYPE LN4

FEATURES

Motor drive optional
Version as maintenance-
/service switch
Version as main switch
Version as emergency stop
installation

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.

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

Does not apply, since the

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[eaton-circuit-breaker-cable-nzm-mccb-3d-drawing-004.eps](#)

IMPACT	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.
POLLUTION DEGREE	3
MOUNTING METHOD	Distribution board installation Fixed Intermediate mounting Built-in device fixed built-in technique Ground mounting
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	111 W
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	25 kA
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Bolt connection
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY	0

CONTACTS (NORMALLY OPEN CONTACTS)	
RATED INSULATION VOLTAGE (UI)	1000 V
RATED OPERATING FREQUENCY	50 Hz
RATED OPERATING POWER AT AC-23, 400 V	560 kW
RATED OPERATING POWER AT AC-3, 400 V	0 kW
SWITCH POSITIONS	I, +, 0
LIFESPAN, MECHANICAL	10000 operations
OVERVOLTAGE CATEGORY	III
RATED OPERATIONAL CURRENT	1600 A (690 V AC-1, making and breaking capacity) 1600 A (415 V AC-1, making and breaking capacity) 1600 A (690 V AC-22/23A, making and breaking capacity) 1600 A (415 V AC-22/23A, making and breaking capacity)
DEGREE OF PROTECTION (IP), FRONT SIDE	IP20
NUMBER OF POLES	Four-pole
TERMINAL CAPACITY (COPPER STRIP)	10 segments of 50 mm x 1 mm (2x) at 1-hole module plate 10 segments of 80 mm x 1 mm (2x) at rear-side width extension Max. 10 segments of 50 mm x 1 mm (2x) at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm (2x) at flat conductor terminal Min. 10 segments of 50 mm x 1 mm (2x) at rear-side connection (punched) Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal
HANDLE COLOR	Gray
LIFESPAN, ELECTRICAL	3000 operations at 400 V AC-1 1000 operations at 690 V AC-3

	2000 operations at 400 V AC-3 2000 operations at 690 V AC-1 2000 operations at 415 V AC-3 3000 operations at 415 V AC-1
FUNCTIONS	Interlockable Disconnectors/main switches Voltage release optional
TYPE	Switch-disconnector
SPECIAL FEATURES	Busbar tag shroud to VDE 0160 Part 100. Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113. Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Rated current = rated uninterrupted current: 1000 A
APPLICATION	Use in unearthed supply systems at 525 V
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	100 kA
RATED CONDITIONAL SHORT-CIRCUIT CURRENT WITH BACK-UP FUSE	80 kA at 690 V N4-630...1600: 2 x 800 AgGgL 100 kA at 400/415 V
RATED CONDITIONAL SHORT-CIRCUIT CURRENT WITH DOWNSTREAM FUSE	80 kA at 690 V 100 kA at 400/415 V N4-630...1600: 2 x 800 AgGgL
SHORT-CIRCUIT TOTAL BREAKTIME	< 10 ms
RATED OPERATING VOLTAGE (UE) AT AC - MAX	400 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	1000 A
RATED PERMANENT CURRENT AT AC-21, 400 V	0 A
RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S)	25 kA
RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)	25 kA
SWITCHING POWER AT 400 V	0 kW

HANDLE TYPE	Rocker lever
NUMBER OF OPERATIONS PER HOUR - MAX	60
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 690 V, 50/60 HZ	53 kA
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS	6000 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS	8000 V
STANDARD TERMINALS	Screw terminal
TERMINAL CAPACITY (CONTROL CABLE)	0.75 mm ² - 1.5 mm ² (2x) 0.75 mm ² - 2.5 mm ² (1x)
SHORT-CIRCUIT PROTECTIVE DEVICE FUSES - MAX	1600 A gL
TERMINAL CAPACITY (COPPER BUSBAR)	Min. 25 mm x 5 mm at rear-side 1-hole module plate Max. 80 mm x 10 mm (2x) at rear-side width extension Min. 60 mm x 10 mm at rear-side width extension Min. 25 mm x 5 mm direct at switch rear-side connection M10 at rear-side screw connection Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate Max. 80 mm x 10 mm (2x) direct at switch rear-side connection Max. 50 mm x 10 mm (2x) direct at switch rear-side connection 50 mm x 10 mm (2x) at rear-side 2-hole module plate
TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	50 mm² - 240 mm² (4x) at 4-hole tunnel terminal 95 mm² - 240 mm² (6x) at rear-side width extension 35 mm² - 185 mm² (4x) at rear-side 2-hole module plate 120 mm² - 300 mm² (1x) at rear-side 1-hole module plate

	300 mm ² (4x) at rear-side width extension 95 mm ² - 185 mm ² (2x) at rear-side 2-hole module plate 95 mm ² - 300 mm ² (2x) at rear-side 1-hole module plate
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	50 mm ² - 185 mm ² (4x) direct at switch rear-side connection 120 mm ² - 185 mm ² (1x) direct at switch rear-side connection
TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)	50 mm ² - 240 mm ² (4x) at 4-hole tunnel terminal

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
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