



Eaton 112013

Eaton Moeller series Power Defense -
Molded Case Circuit Breaker. Switch-
disconnecter, 3 p, 1000A, frame size 4

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PRODUCT NAME	Eaton Moeller series Power Defense molded case switch-disconnector
CATALOG NUMBER	112013
PRODUCT LENGTH/DEPTH	401 mm
PRODUCT HEIGHT	207 mm
PRODUCT WIDTH	210 mm
PRODUCT WEIGHT	17 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC

AMPERAGE RATING	1000 A
VOLTAGE RATING	690 V - 690 V
CIRCUIT BREAKER FRAME TYPE	LN4
FEATURES	Version as emergency stop installation Motor drive optional Version as maintenance-/service switch Version as main switch
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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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	Fixed Built-in device fixed built-in technique Ground mounting Distribution board installation Intermediate 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 (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) 1600 A (690 V AC-1, making and breaking capacity)
DEGREE OF PROTECTION (IP), FRONT SIDE	IP20
NUMBER OF POLES	Three-pole
TERMINAL CAPACITY (COPPER STRIP)	10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Max. 10 segments of 32 mm x 1 mm (2x) at flat conductor terminal 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) 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 415 V AC-1 2000 operations at 690 V AC-1

	1000 operations at 690 V AC-3 2000 operations at 400 V AC-3 2000 operations at 415 V AC-3 3000 operations at 400 V AC-1
FUNCTIONS	Voltage release optional Disconnectors/main switches Interlockable
TYPE	Switch-disconnector
SPECIAL FEATURES	Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113. Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Busbar tag shroud to VDE 0160 Part 100. 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	100 kA at 400/415 V N4-630...1600: 2 x 800 AgGgL 80 kA at 690 V
RATED CONDITIONAL SHORT-CIRCUIT CURRENT WITH DOWNSTREAM FUSE	100 kA at 400/415 V 80 kA at 690 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	0 kW

400 V	
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)	<p>Max. 80 mm x 10 mm (2x) at rear-side width extension</p> <p>Max. 80 mm x 10 mm (2x) direct at switch rear-side connection</p> <p>50 mm x 10 mm (2x) at rear-side 2-hole module plate</p> <p>Min. 60 mm x 10 mm at rear-side width extension</p> <p>Min. 25 mm x 5 mm at rear-side 1-hole module plate</p> <p>Min. 25 mm x 5 mm direct at switch rear-side connection</p> <p>Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate</p> <p>Max. 50 mm x 10 mm (2x) direct at switch rear-side connection</p> <p>M10 at rear-side screw connection</p>
TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	<p>35 mm² - 185 mm² (4x) at rear-side 2-hole module plate</p> <p>95 mm² - 185 mm² (2x) at rear-side 2-hole module plate</p> <p>95 mm² - 240 mm² (6x) at rear-side width extension</p> <p>300 mm² (4x) at rear-side</p>

	width extension 120 mm² - 300 mm² (1x) at rear-side 1-hole module plate 95 mm² - 300 mm² (2x) at rear-side 1-hole module plate 50 mm² - 240 mm² (4x) at 4-hole tunnel terminal
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	120 mm² - 185 mm² (1x) direct at switch rear-side connection 50 mm² - 185 mm² (4x) direct at switch rear-side connection
TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)	50 mm² - 240 mm² (4x) at 4-hole tunnel terminal

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
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