Especificações



Eaton 110769

Eaton Moeller series NZM - Molded Case Circuit Breaker. Switch-disconnector 3p 630A + withdrawable unit

Especificações gerais	
PRODUCT NAME	Eaton Moeller series NZM switch-disconnector
CATALOG NUMBER	110769
EAN	4015081103188
PRODUCT LENGTH/DEPTH	260 mm
PRODUCT HEIGHT	346 mm
PRODUCT WIDTH	185 mm
PRODUCT WEIGHT	15.886 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947 IEC
MODEL CODE	N3-630-AVE

Powering Business Worldwide

Informações adicionais

FUNCTIONS	Voltage release optional Disconnectors/main switches Interlockable

Programa de entrega

ACCESSORIES REQUIRED	NZM3-XAVS socket base
AMPERAGE RATING	630 A
APPLICATION	Use in unearthed supply systems at 690 V
CIRCUIT BREAKER FRAME TYPE	N3
FEATURES	Version as emergency stop installation Version as main switch Motor drive optional Version as maintenance-/service switch
NUMBER OF POLES	Three-pole
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: 630 A
TYPE	Switch-disconnector

Verificação do design de acordo com a norma IEC/EN 61439	
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 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.

Verificação do design de acordo com a norma IEC/EN 61439 - dados técnicos	
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MIN	40 °C
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	107.16 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	630 A

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.

Technical data - electrical

AMPERAGE RATING	630 A
DIRECTION OF INCOMING SUPPLY	As required
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
HANDLE TYPE	Rocker lever
ISOLATION	500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)
LIFESPAN, ELECTRICAL	3000 operations at 415 V AC-3 3000 operations at 690 V AC-1 3000 operations at 400 V AC-3 2000 operations at 690 V AC-3 3000 operations at 400 V AC-1 3000 operations at 415 V AC-1
NUMBER OF OPERATIONS PER HOUR - MAX	60
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
RATED CONDITIONAL SHORT-CIRCUIT CURRENT WITH BACK-UP FUSE	PN3(N3)-400...630: 630 AgGgL 80 kA at 690 V 100 kA at 400/415 V
RATED CONDITIONAL SHORT-CIRCUIT CURRENT WITH DOWNSTREAM FUSE	PN3(N3)-400...630: 630 AgGgL 80 kA at 690 V 100 kA at 400/415 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS	6000 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS	8000 V
RATED INSULATION VOLTAGE (UI)	1000 V
RATED OPERATING FREQUENCY	50 Hz
RATED OPERATING POWER AT AC-23, 400 V	315 kW

Technical data - mechanical

CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
DEGREE OF PROTECTION	IP20 (basic protection type, in the area of the HMI devices) Other
DEGREE OF PROTECTION (IP), FRONT SIDE	IP20 IP40 (with insulating surround) IP66 (with door coupling rotary handle)
DEGREE OF PROTECTION (TERMINATIONS)	IP00 (terminations, phase isolator and band terminal) IP10 (tunnel terminal)
HANDLE COLOR	Black
LIFESPAN, MECHANICAL	15000 operations
MOUNTING METHOD	Withdrawable Distribution board installation Intermediate mounting Ground mounting Built-in device slide-in technique (withdrawable)
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 SWITCHES	1
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)
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.

RATED OPERATING VOLTAGE (UE) AT AC - MAX	690 V
RATED OPERATIONAL CURRENT	630 A (415 V AC-22A, making and breaking capacity) 500 A (415 V AC-23A, making and breaking capacity) 630 A (690 V AC-22A, making and breaking capacity) 500 A (690 V AC-23A, making and breaking capacity)
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 690 V, 50/60 HZ	25 kA
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	12 kA
RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S)	12 kA
RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)	12 kA
SHORT-CIRCUIT PROTECTIVE DEVICE FUSES - MAX	630 A gL
VOLTAGE RATING	690 V - 690 V
	• Busbar tag shroud to VDE 0160 Part 100. • Rated current = rated uninterrupted current: 630 A
SWITCH POSITIONS	I, +, 0

Technical data - mechanical - terminals

TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)	16 mm² (1x) at tunnel terminal 16 mm² (1x) direct at switch rear-side connection 10 mm² - 16 mm² (2x) direct at switch rear-side connection
TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)	25 mm² - 185 mm² (1x) at 1-hole tunnel terminal up to 240 mm² depending on the cable manufacturer.
TERMINAL CAPACITY (COPPER BUSBAR)	M10 at rear-side screw connection Max. 10 mm x 50 mm (2x) at rear-side width extension Min. 20 mm x 5 mm direct at switch rear-side connection
TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	16 mm² (1x) direct at switch rear-side connection 300 mm² (2x) at rear-side width extension 16 mm² (2x) at box terminal 16 mm² (2x) direct at switch rear-side connection
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	35 mm² - 240 mm² (1x) at box terminal 25 mm² - 120 mm² (1x) direct at switch rear-side connection 25 mm² - 185 mm² (1x) at 1-hole tunnel terminal 50 mm² - 240 mm² (1x) at 2-hole tunnel terminal 50 mm² - 240 mm² (2x) at 2-hole tunnel terminal 25 mm² - 120 mm² (2x) at box terminal 25 mm² - 120 mm² (2x) direct at switch rear-side connection
TERMINAL CAPACITY (COPPER STRIP)	Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear-side connection (punched) Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 6 segments of 16 mm x 0.8 mm at box terminal

Recursos

DECLARATIONS OF CONFORMITY	eaton-switch-disconnector-declaration-of-conformity-eu250127en.pdf
DESENHOS	eaton-circuit-breaker-switch-nzm-mccb-dimensions-016.eps eaton-circuit-breaker-nzm-mccb-dimensions-020.eps eaton-circuit-breaker-nzm-switch-disconnector-3d-drawing-004.eps
ECAD MODEL	DA-CE-ETN.N3-630-AVE
MCAD MODEL	eaton-molded-case-switches-mcad-drawings-nzm3-xave.dwg DA-CS-nzm3_xave
PEP ECO-PASSPORT	eaton-switch-disconnectors-pep-eato-00200-v0101-en.pdf

	Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) 10 segments of 50 mm x 1 mm (2x) at rear-side width extension Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm

NOME DO PROJETO:	
NÚMERO DO PROJETO:	
PREPARADO POR:	
DATA:	

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