DATASHEET - N3-630-SVE

Switch-disconnector 3p + plug-in contacts

Part no.	**N3-630-SVE**
	168545
EL Number (Norway)	**4356981**

General specifications

Product name	Eaton Moeller series NZM switch-disconnector
Part no.	N3-630-SVE
EAN	4015081650200
Product Length/Depth	335 millimetre
Product height	215.2 millimetre
Product width	140 millimetre
Product weight	5.42 kilogram
Compliances	RoHS conform
Product Tradename	NZM
Product Type	Switch-disconnector
Product Sub Type	None

Delivery program

Number of poles	Three-pole
Amperage Rating	630 A
Features	Version as main switch Version as emergency stop installation Motor drive optional Version as maintenance-/service switch
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

Technical Data - Electrical

Voltage rating	690 V - 690 V
Rated operating voltage (Ue) at AC - max	690 V
Rated conditional short-circuit current (Iq)	0 kA
Rated operational current	500 A (690 V AC-23A, making and breaking capacity) 630 A (690 V AC-22A, making and breaking capacity) 500 A (415 V AC-23A, making and breaking capacity) 630 A (415 V AC-22A, making and breaking capacity)
Rated permanent current at AC-21, 400 V	0 A
Rated permanent current at AC-23, 400 V	0 A
Rated short-time withstand current (Icw)	12 kA
Rated operating power at AC-3, 400 V	0 kW
Rated operating power at AC-23, 400 V	315 kW
Switching power at 400 V	0 kW
Short-circuit protective device fuses - max	630 A gL
Electrical connection type of main circuit	Screw connection
Handle type	Rocker lever

Technical Data - Mechanical

Mounting Method	Built-in device plug-in technique Intermediate mounting Distribution board installation Ground mounting
Degree of protection	IP20
Degree of protection (IP), front side	IP20
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
Handle color	Black

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
Design verification as per IEC/EN 61439 - technical data			
Equipment heat dissipation, current-dependent			107.16 W
Ambient operating temperature - min			-25 °C
Ambient operating temperature - max			70 °C
Ambient storage temperature - min			40 °C
Ambient storage temperature - max			70 °C
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			Interlockable Voltage release optional

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Switch disconnector (low voltage) (EC000216)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03 [AKF060018])			
Version as main switch			Yes
Version as maintenance-/service switch			Yes
Version as safety switch			No
Version as emergency stop installation			Yes
Version as reversing switch			No
Number of switches			1
Max. rated operation voltage Ue AC		V	690
Rated operating voltage		V	690 - 690
Rated permanent current Iu		A	
Rated permanent current at AC-23, 400 V		A	0
Rated permanent current at AC-21, 400 V		A	0
Rated operation power at AC-3, 400 V		kW	0
Rated short-time withstand current Icw		kA	12
Rated operation power at AC-23, 400 V		kW	315
Switching power at 400 V		kW	0

Conditioned rated short-circuit current Iq		kA	0
Number of poles			3
Number of auxiliary contacts as normally closed contact			0
Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as change-over contact			0
Motor drive optional			Yes
Motor drive integrated			No
Voltage release optional			Yes
Device construction			Built-in device plug-in technique
Suitable for floor mounting			Yes
Suitable for front mounting 4-hole			No
Suitable for front mounting centre			No
Suitable for distribution board installation			Yes
Suitable for intermediate mounting			Yes
Colour control element			Black
Type of control element			Rocker lever
Interlockable			Yes
Type of electrical connection of main circuit			Screw connection
With pre-assembled cabling			No
Degree of protection (IP), front side			IP20
Degree of protection (NEMA)			Other
Width		mm	140
Height		mm	215.2
Depth		mm	335
Width in number of modular spacings			

© 04/2023 by Eaton Industries GmbH