Switch-disconnector 3p 100A +pull out

4357990

Powering Business Worldwide*

Part no. N1-100-SVE 113730

EL Number

(Norway)

(Norway)	
Draduation	Faton Modillon posice N7AA
Product name	Eaton Moeller series NZM switch-disconnector
Part no.	N1-100-SVE
EAN	4015081132706
Product Length/Depth	90 millimetre
Product height	201 millimetre
Product width Product width	95 millimetre
Product weight Product weight	1.028 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 60947 IEC
Product Tradename	NZM
Product Type	Switch-disconnector
Product Sub Type	None
Application	Use in unearthed supply systems at 690 V
Туре	Switch-disconnector
Circuit breaker frame type	N1
Accessories required	NZM2-XSVS socket base
Number of poles	Three-pole
Amperage Rating	100 A
Features	Version as main switch Version as emergency stop installation 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 VDI 0160 Part 100. Rated current = rated uninterrupted current: 100 A
Voltage rating	690 V - 690 V
Rated operating voltage (Ue) at AC - max	690 V
Rated insulation voltage (Ui)	690 V
Rated impulse withstand voltage (Uimp) at auxiliary contacts	6000 V
Rated impulse withstand voltage (Uimp) at main contacts	6000 V
Rated conditional short-circuit current (Iq)	0 kA
Rated operational current	160 A (690 V AC-22/23A, making and breaking capacity) 160 A (415 V AC-22/23A, 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 conditional short-circuit current with back-up fuse	80 kA at 690 V 100 kA at 400/415 V 100 gG/gL
Rated conditional short-circuit current with downstream fuse	100 kA at 400/415 V 100 gG/gL 10 kA at 690 V
Rated short-time withstand current (Icw)	2 kA
Rated short-time withstand current (t = 0.3 s)	2 kA
Rated short-time withstand current (t = 1 s)	2 kA
Rated operating frequency	50 Hz
Rated short-circuit making capacity Icm at 690 V, 50/60 Hz	2.8 kA
Rated operating power at AC-3, 400 V	0 kW
Rated operating power at AC-23, 400 V	55 kW
Switching power at 400 V	0 kW

Short-circuit protective device fuses - max	125 A gL
Electrical connection type of main circuit	Frame clamp
Isolation	500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)
Number of operations per hour - max	120
Handle type	Rocker lever
Overvoltage category	III
Pollution degree	3
Lifespan, electrical	1000 operations at 415 V AC-23A 1000 operations at 690 V AC-23A 10000 operations at 415 V AC-1 10000 operations at 400 V AC-1 1000 operations at 400 V AC-23A 7500 operations at 690 V AC-1
Direction of incoming supply	As required
Mounting Method	Intermediate mounting Ground mounting Built-in device plug-in technique Distribution board installation Plug-in unit
Degree of protection	IP20 (basic protection type, in the area of the HMI devices)
Degree of protection (IP), front side	IP20 IP40 (with insulating surround) IP66 (with door coupling rotary handle)
Degree of protection (terminations)	IP10 (tunnel terminal) IP00 (terminations, phase isolator and band terminal)
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)
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
Switch positions	l, +, 0
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Special features	Main switch characteristics including positive drive to IEC/EN 60204 and VDE 011 Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Busbar tag shroud to VI 0160 Part 100. Rated current = rated uninterrupted current: 100 A
Lifespan, mechanical	20000 operations
Terminal capacity (aluminum solid conductor/cable)	16 mm² (1x) at tunnel terminal 10 mm² - 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 - 95 mm² (1x) at 1-hole tunnel terminal
Terminal capacity (copper busbar)	M6 at rear-side screw connection Max. 16 mm x 5 mm direct at switch rear-side connection Min. 12 mm x 5 mm direct at switch rear-side connection
Terminal capacity (copper solid conductor/cable)	10 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (2x) at box terminal 6 mm² - 16 mm² (2x) direct at switch rear-side connection 16 mm² (1x) at tunnel terminal 10 mm² - 16 mm² (1x) at box terminal
Terminal capacity (copper stranded conductor/cable)	10 mm² - 70 mm² (1x) at box terminal 6 mm² - 25 mm² (2x) at box terminal Terminal capacity hint: Up to 95 mm² can be connected depending on the cable manufacturer 25 mm² - 70 mm² (1x) direct at switch rear-side connection 25 mm² - 95 mm² (1x) at 1-hole tunnel terminal 25 mm² (2x) direct at switch rear-side connection
Terminal capacity (copper strip)	Max. 9 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal
Rated operational current for specified heat dissipation (In)	100 A
Equipment heat dissipation, current-dependent	11.4 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
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.
Functions	Disconnectors/main switches Voltage release optional Interlockable

Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

[AKI 0000 13])		
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 lu	Α	
Rated permanent current at AC-23, 400 V	А	0
Rated permanent current at AC-21, 400 V	Α	0
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current lcw	kA	2
Rated operation power at AC-23, 400 V	kW	55
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		No

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	Frame clamp
Degree of protection (IP), front side	IP20
Degree of protection (NEMA)	