## Switch-disconnector 3p 200A +pull out

Powering Business Worldwide\*

Part no. N2-200-SVE 113734

**EL Number** 4357993

(Norway)

Product name Product name Product name Product Length/Depth Product Length/Depth Product Length/Depth Product Length/Depth Product Length/Depth Product weight Product weight Product weight Product weight Product Tweelph Product Tradename Product Tradename Product Type Prod	
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Product weight  Compliances  Certifications  IEC/EN 80947 IEC  Product Tradename Product Type Product Type Product Sub Type  None  Application  Application  Application  Type  Circuit breaker frame type Accessories required Number of poles Amperage Rating  Features  American Sub Type  Suitch-disconnector  Nz N	
Compliances Certifications    IEC/EN 60947   IEC	
Certifications    IEC/EN 60947   IEC	
Product Tradename Product Type Switch-disconnector Product Sub Type None  Application Application Use in unearthed supply systems at 690 V Type Switch-disconnector NZM2-XSVS socket base Number of poles Amperage Reting Application Features Accessories required NZM2-XSVS socket base Number of poles Amperage Reting Application Features Application Features Application Version as maintenance-yearcies witch Version as maintenance, service switch Version as maintenance, switch under under rup time withstand current for PN2/N2 in conjunctic XFILcw = 1.5 kA  Voltage rating Voltage rating  Voltage rating  690 V - 690 V  Rated operation voltage (Ue) at AC - max  690 V  Rated insulation voltage (Uipp) at auxiliary contacts  690 V  Rated operational current (Iq)  0 kA  Rated operational current at AC-21,400 V  0 A  Rated operational current at AC-21,400 V  0 A  Rated conditional short-circuit current with back-up fuse  800 kA at 690 V  100 kA at 400/415 V	
Product Type Product Sub Type  None  Application  Application  Use in unearthed supply systems at 690 V  Type Switch-disconnector  N2  Accessories required N2M2-XSVS socket base Number of poles Amperage Rating  Amperage Rating  Amperage Rating  Preatures  Are an	
Application  Application  Use in unearthed supply systems at 690 V  Type  Switch-disconnector  Circuit breaker frame type  N2  Accessories required  Number of poles  Amperage Rating  Peatures  Aperage Rating  Person as maintenance-/service switch Version as maintenance-/service switch Versi	
Application  Type  Switch-disconnector  Circuit breaker frame type  Accessories required  NzM2-XSVS socket base  Number of poles  Amperage Rating  Features  Version as margency stop installation Motor drive optional Version as maintenance-/service switch Version as main switch  Special features  Special features  Special features  Woltage rating  Voltage rating  Voltage rating  Voltage rating  Fated operating voltage (Ue) at AC - max  Rated insulation voltage (Ui) at auxiliary contacts  Rated impulse withstand voltage (Uimp) at main contacts  Rated operational short-circuit current (Iq)  Rated operational current  Rated operational current  Rated operational current  Rated operational current  Rated permanent current at AC-21, 400 V  Rated permanent current at AC-23, 400 V  Rated permanent current at AC-23, 400 V  Rated onditional short-circuit current with back-up fuse  800 kA at 690 V  80 kA at 690 V	
Type Circuit breaker frame type Accessories required Number of poles Amperage Rating Features  Amperage Rating  Features  Pacinity  Special features  Notation and switch characteristics including positive with stand current of PNZ/NZ in conjunctive XFIIcw = 1.5 kA  Voltage rating  Notation and supplies to IEC/EN 60947-3 and oli60 Part 100. Rated current erated uninterrupt time withstand current for PNZ/NZ in conjunctive XFIIcw = 1.5 kA  Voltage rating Rated operating voltage (Ue) at AC - max Rated insulation voltage (Uimp) at auxiliary contacts Rated impulse withstand voltage (Uimp) at auxiliary contacts Rated operational short-circuit current (Iq)  Rated operational current  Rated permanent current at AC-21, 400 V  Rated permanent current at AC-23, 400 V  Rated permanent current at AC-23, 400 V  Rated conditional short-circuit current with back-up fuse  Switch-disconnector  NZ  NZM2-XSVS socket base Three-pole  NZM2-XSVS socket base Three-pole  Amperage Rating  200 A  Version as emergency stop installation Metor divosion as main semergency stop installation Metor divosion as main tendency semically sem	
Type  Circuit breaker frame type  Accessories required  Number of poles  Amperage Rating  Features  Amperage Rating  Features  Peatures  Special features  Special features  Aminous a	
Circuit breaker frame type  Accessories required  Number of poles  Amperage Rating  Features  Peatures  Special features  Main switch characteristics including positive Isolating characteristics to IEC/EN 60947-3 and 0160 Part 100. Rated current = rated uninterrupt imme withstand current for PN2/N2 in conjunctiv XFIlcw = 1.5 kA  Voltage rating  Rated operating voltage (Ue) at AC - max  Rated impulse withstand voltage (Uimp) at auxiliary contacts  Rated operational short-circuit current (Iq)  Rated operational current  Rated permanent current at AC-21, 400 V  Rated permanent current at AC-23, 400 V  Rated conditional short-circuit current with back-up fuse  80 kA at 690 V  Rated conditional short-circuit current with back-up fuse  80 kA at 690 V  Rated conditional short-circuit current with back-up fuse  80 kA at 690 V	
Accessories required  Number of poles  Amperage Rating  200 A  Features  Version as emergency stop installation Motor drive optional Version as maintenance -/service switch Version as maintenance -/service switch Version as main switch  Special features  Main switch characteristics including positive Isolating characteristics to IEC/FN 60947-3 and 0160 Part 100. Rated current rated uninterrup time withstand current for PN2/N2 in conjunctiv XFIlcw = 1.5 kA  Voltage rating  890 V - 690 V  Rated operating voltage (Ue) at AC - max  690 V  Rated insulation voltage (Uii)  890 V  Rated impulse withstand voltage (Uimp) at auxiliary contacts  Rated impulse withstand voltage (Uimp) at main contacts  8000 V  Rated operational short-circuit current (Iq)  0 kA  Rated operational current  250 A (415 V AC-22/23A, making and breaking c 250 A (690 V AC	
Number of poles  Amperage Rating  200 A  Features  Version as emergency stop installation Motor drive optional Version as maintenance-/service switch Version as maintenance-/	
Amperage Rating  Features  Version as emergency stop installation Motor drive optional Version as maintenance-/service switch Version as maintenance-/service switch Version as maintenance-/service switch Version as maintenance-/service switch Version as main switch Characteristics including positive Isolating characteristics to IEC/EN 60947-3 and 0160 Part 100. Rated current = rated uninterrupt time withstand current for PN2/N2 in conjunctic XFIIcw = 1.5 kA  Voltage rating  Rated operating voltage (Ue) at AC - max  Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp) at auxiliary contacts  Rated impulse withstand voltage (Uimp) at main contacts  Rated conditional short-circuit current (Iq)  Rated operational current  250 A (415 V AC-22/23A, making and breaking c 250 A (690	
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Rated operating voltage (Ue) at AC - max  Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp) at auxiliary contacts  Rated impulse withstand voltage (Uimp) at main contacts  Rated conditional short-circuit current (Iq)  Rated operational current  Rated permanent current at AC-21, 400 V  Rated permanent current at AC-23, 400 V  Rated conditional short-circuit current with back-up fuse  8000 V  250 A (415 V AC-22/23A, making and breaking contact of the conditional short-circuit current with back-up fuse  8000 V  250 A (415 V AC-22/23A, making and breaking contact of the conditional short-circuit current with back-up fuse	
Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp) at auxiliary contacts  6000 V  Rated impulse withstand voltage (Uimp) at main contacts  8000 V  Rated conditional short-circuit current (Iq)  0 kA  Rated operational current  250 A (415 V AC-22/23A, making and breaking c 250 A (690 V AC-22/23A, making and breaking c 250 A (	
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Rated conditional short-circuit current (Iq)  Rated operational current  250 A (415 V AC-22/23A, making and breaking c 250 A (690 V AC-22/23A, making and breaki	
Rated operational current  250 A (415 V AC-22/23A, making and breaking c 250 A (690 V AC-22/23A, making and breaki	
Rated permanent current at AC-21, 400 V  Rated permanent current at AC-23, 400 V  Rated conditional short-circuit current with back-up fuse  80 kA at 690 V 100 kA at 400/415 V	
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	. "
Rated conditional short-circuit current with back-up fuse 80 kA at 690 V 100 kA at 400/415 V	
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  PN2(N2)-160250: 250 AgGgL	
Rated short-time withstand current (Icw) 3.5 kA	
Rated short-time withstand current (t = 0.3 s) 3.5 kA	
Rated short-time withstand current (t = 1 s) 3.5 kA	
Rated operating frequency 50 Hz	
Rated short-circuit making capacity Icm at 690 V, 50/60 Hz 5.5 kA	
Rated operating power at AC-3, 400 V 0 kW	

Rated operating power at AC-23, 400 V	110 kW
Switching power at 400 V	0 kW
Short-circuit protective device fuses - max	250 A gL
Electrical connection type of main circuit	Screw connection
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	5000 operations at 690 V AC-3 7500 operations at 415 V AC-3 7500 operations at 690 V AC-1 10000 operations at 400 V AC-1 7500 operations at 400 V AC-3 10000 operations at 415 V AC-1
Direction of incoming supply	As required
Mounting Method  Degree of protection	Distribution board installation Built-in device plug-in technique Intermediate mounting Plug-in unit Ground mounting IP20 (basic protection type, in the area of the HMI devices)
Degree of protection (IP), front side	IP20 (basic protection type, in the area of the Hint devices)  IP40 (with insulating surround)
begree of protection (if ), none side	IP66 (with door coupling rotary handle) IP20
Degree of protection (terminations)	IP00 (terminations, phase isolator and band terminal) IP10 (tunnel 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, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
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: 200 A The rated short-time withstand current for PN2/N2 in conjunction with earth-fault release NZM2-4-XFIIcw = 1.5 kA
Lifespan, mechanical	20000 operations
Terminal capacity (aluminum solid conductor/cable)	16 mm² (1x) at tunnel terminal 10 mm² - 16 mm² (2x) direct at switch rear-side connection 10 mm² - 16 mm² (1x) direct at switch rear-side connection
Terminal capacity (aluminum stranded conductor/cable)	25 mm <sup>2</sup> - 185 mm <sup>2</sup> (1x) at 1-hole tunnel terminal
Terminal capacity (copper busbar)	Min. 16 mm x 5 mm direct at switch rear-side connection Max. 24 mm x 8 mm direct at switch rear-side connection M8 at rear-side screw connection
Terminal capacity (copper solid conductor/cable)	6 mm² - 16 mm² (2x) direct at switch rear-side connection 10 mm² - 16 mm² (1x) direct at switch rear-side connection 16 mm² (1x) at tunnel terminal 10 mm² - 16 mm² (1x) at box terminal 6 mm² - 16 mm² (2x) at box terminal
Terminal capacity (copper stranded conductor/cable)	25 mm² - 185 mm² (1x) at box terminal 25 mm² - 185 mm² (1x) direct at switch rear-side connection 25 mm² - 70 mm² (2x) direct at switch rear-side connection 25 mm² - 70 mm² (2x) at box terminal 25 mm² - 185 mm² (1x) at 1-hole tunnel terminal
Terminal capacity (copper strip)	Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 9 mm x 0.8 mm at box terminal Max. 10 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 15.5 mm x 0.8 mm (2x) at box terminal

Rated operational current for specified heat dissipation (In)	200 A
Equipment heat dissipation, current-dependent	30.72 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.
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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 b observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must b observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
Functions	Interlockable Disconnectors/main switches Voltage release optional

## **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])

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	Α	0
Rated permanent current at AC-21, 400 V	А	0
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current lcw	kA	3.5
Rated operation power at AC-23, 400 V	kW	110
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
Degree of protection (IP), front side	IP20
Degree of protection (NEMA)	