DATASHEET - NZMB1-A100-SVE

Circuit-breaker, 3p, 100A, plug-in module



Part no. NZMB1-A100-SVE 112707 EL Number 4357004 (Norway)

General	specifications
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Product name	Eaton Moeller series NZM molded case circuit breaker thermo-magnetic
Part no.	NZMB1-A100-SVE
EAN	4015081122578
Product Length/Depth	90 millimetre
Product height	201 millimetre
Product width	95 millimetre
Product weight	1.203 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 60947 IEC
Product Tradename	NZM
Product Type	Molded case circuit breaker
Product Sub Type	Thermo-magnetic
Delivery program	
Application	Use in unearthed supply systems at 440 V
Туре	Circuit breaker
Circuit breaker frame type	NZM1
Accessories required	NZM1-XSVS
Number of poles	Three-pole
Amperage Rating	100 A
Release system	Thermomagnetic release
Features	Protection unit
Special features	Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity Icn) Rated current = rated uninterrupted current: 100 A Terminal capacity hint: Up to 95 mm ² can be connected depending on the cable manufacturer.
Technical Data - Electrical	
Voltage rating	440 V - 440 V
Rated insulation voltage (Ui)	690 V AC
Rated impulse withstand voltage (Uimp) at auxiliary contacts	6000 V
Rated impulse withstand voltage (Uimp) at main contacts	6000 V
Instantaneous current setting (Ii) - min	600 A
Instantaneous current setting (Ii) - max	1000 A
Overload current setting (Ir) - min	80 A
Overload current setting (Ir) - max	100 A
Short delay current setting (Isd) - min	0 A
Short delay current setting (Isd) - max	0 A
Short-circuit release non-delayed setting - min	600 A
Short-circuit release non-delayed setting - max	1000 A
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 Hz	30 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz	25 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz	18.5 kA
Rated short-circuit making capacity Icm at 240 V, 50/60 Hz	63 kA
Rated short-circuit making capacity Icm at 400/415 V, 50/60 Hz	53 kA
Rated short-circuit making capacity Icm at 440 V, 50/60 Hz	53 kA
Short-circuit total breaktime	< 10 ms
Electrical connection type of main circuit	Frame clamp
	Tuno dump

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
Utilization category	A (IEC/EN 60947-2)
Overvoltage category	III
Pollution degree	3
Lifespan, electrical	7500 operations at 415 V AC-1 7500 operations at 400 V AC-1
Direction of incoming supply	As required
Technical Data - Mechanical	
Mounting Method	Built-in device plug-in technique Plug-in unit DIN rail (top hat rail) mounting optional
Degree of protection	IP20 (basic degree of protection, in the operating controls area) IP20
Degree of protection (IP), front side	IP40 (with insulating surround) IP66 (with door coupling rotary handle)
Degree of protection (terminations)	IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip 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
Position of connection for main current circuit	Front side
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Special features	Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity Icn) Rated current = rated uninterrupted current: 100 A Terminal capacity hint: Up to 95 mm ² can be connected depending on the cable manufacturer.
Lifespan, mechanical	20000 operations
Technical Data - Mechanical - Terminals	
Standard terminals	Box terminal
Optional terminals	Connection on rear. Screw terminal. Tunnel terminal
Terminal capacity (control cable)	
	0.75 mm² - 1.5 mm² (2x) 0.75 mm² - 2.5 mm² (1x)
Terminal capacity (aluminum solid conductor/cable)	0.75 mm ² - 1.5 mm ² (2x)
	0.75 mm ² - 1.5 mm ² (2x) 0.75 mm ² - 2.5 mm ² (1x) 10 mm ² - 16 mm ² (2x) direct at switch rear-side connection 16 mm ² (1x) at tunnel terminal
Terminal capacity (aluminum solid conductor/cable)	0.75 mm ² - 1.5 mm ² (2x) 0.75 mm ² - 2.5 mm ² (1x) 10 mm ² - 16 mm ² (2x) direct at switch rear-side connection 16 mm ² (1x) at tunnel terminal 10 mm ² - 16 mm ² (1x) direct at switch rear-side connection 25 mm ² - 35 mm ² (2x) direct at switch rear-side connection 25 mm ² - 95 mm ² (1x) at tunnel terminal
Terminal capacity (aluminum solid conductor/cable) Terminal capacity (aluminum stranded conductor/cable)	0.75 mm ² - 1.5 mm ² (2x) 0.75 mm ² - 2.5 mm ² (1x) 10 mm ² - 16 mm ² (2x) direct at switch rear-side connection 16 mm ² (1x) at tunnel terminal 10 mm ² - 16 mm ² (1x) direct at switch rear-side connection 25 mm ² - 35 mm ² (2x) direct at switch rear-side connection 25 mm ² - 95 mm ² (1x) at tunnel terminal 25 mm ² - 35 mm ² (1x) direct at switch rear-side 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 (aluminum solid conductor/cable) Terminal capacity (aluminum stranded conductor/cable) Terminal capacity (copper busbar)	0.75 mm² - 1.5 mm² (2x) 0.75 mm² - 2.5 mm² (1x) 10 mm² - 16 mm² (2x) direct at switch rear-side connection 16 mm² (1x) at tunnel terminal 10 mm² - 35 mm² (2x) direct at switch rear-side connection 25 mm² - 35 mm² (2x) direct at switch rear-side connection 25 mm² - 35 mm² (1x) at tunnel terminal 25 mm² - 35 mm² (1x) direct at switch rear-side connection 25 mm² - 35 mm² (1x) direct at switch rear-side connection Max. 16 mm x 5 mm direct at switch rear-side connection Max. 16 mm x 5 mm direct at switch rear-side connection M6 at rear-side screw connection 6 mm² - 16 mm² (2x) at box terminal 10 mm² - 16 mm² (1x) direct at switch rear-side connection
Terminal capacity (aluminum solid conductor/cable) Terminal capacity (aluminum stranded conductor/cable) Terminal capacity (copper busbar) Terminal capacity (copper solid conductor/cable)	0.75 mm² - 1.5 mm² (2x) 0.75 mm² - 2.5 mm² (1x) 10 mm² - 16 mm² (2x) direct at switch rear-side connection 16 mm² (1x) at tunnel terminal 10 mm² - 16 mm² (1x) direct at switch rear-side connection 25 mm² - 35 mm² (1x) at tunnel terminal 25 mm² - 35 mm² (1x) at tunnel terminal 25 mm² - 35 mm² (1x) at tunnel terminal 25 mm² - 35 mm² (1x) direct at switch rear-side connection 25 mm² - 35 mm² (1x) direct at switch rear-side 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 M6 at rear-side screw connection 6 mm² - 16 mm² (2x) at box terminal 10 mm² - 16 mm² (1x) at tunnel terminal 10 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (1x) direct at switch rear-side connection 10 mm² - 16 mm² (1x) direct at switch rear-side connection 10 mm² - 16 mm² (2x) direct at switch rear-side connection 10 mm² - 16 mm² (2x) direct at switch rear-side connection 25 mm² - 25 mm² (1x) at 1-hole tunnel terminal 25 mm² (2x) direct at switch rear-side connection 25 mm² (2x) direct at switch rear-side connection 10 mm² - 70 mm² (1x) at box terminal 25 mm² (2x) direct at switch rear-side connection
Terminal capacity (aluminum solid conductor/cable) Image: Capacity (aluminum stranded conductor/cable) Terminal capacity (aluminum stranded conductor/cable) Image: Capacity (copper busbar) Terminal capacity (copper solid conductor/cable) Image: Capacity (copper solid conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable)	0.75 mm² - 1.5 mm² (2x) 0.75 mm² - 2.5 mm² (1x) 10 mm² - 16 mm² (2x) direct at switch rear-side connection 16 mm² (1x) at tunnel terminal 10 mm² - 16 mm² (1x) direct at switch rear-side connection 25 mm² - 35 mm² (2x) direct at switch rear-side connection 25 mm² - 35 mm² (1x) at tunnel terminal 25 mm² - 35 mm² (1x) direct at switch rear-side connection Max. 16 mm x 5 mm direct at switch rear-side connection Max. 16 mm x 5 mm direct at switch rear-side connection Max. 16 mm x 5 mm direct at switch rear-side connection Max 16 mm x 5 mm direct at switch rear-side connection M6 at rear-side screw connection 6 mm² - 16 mm² (2x) at box terminal 16 mm² (1x) at tunnel terminal 10 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (1x) direct at switch rear-side connection 10 mm² - 70 mm² (1x) direct at switch rear-side connection 6 mm² - 25 mm² (1x) at 1-hole tunnel terminal 25 mm² (2x) direct at switch rear-side connection 10 mm² - 70 mm² (1x) at box terminal 6 mm² - 25 mm² (2x) at box terminal 6 mm² - 25 mm² (2x) direct at switch rear-side connection 10 mm² - 70 mm² (1x) at tox terminal 6 mm² - 25 mm² (2x) at box terminal 10 mm² - 70 mm² (1x) at box terminal 6 mm² - 25 mm² (2x) at box terminal 10 mm² - 70 mm² (1x) at box terminal 10 mm² - 70 mm² (1x) at box terminal 10 mm² - 25 mm² (2x) at box terminal 10 mm² - 25 mm² (2x) at box terminal 10 mm² - 25 mm² (2x) at box terminal
Terminal capacity (aluminum solid conductor/cable) Image: Capacity (aluminum stranded conductor/cable) Terminal capacity (aluminum stranded conductor/cable) Image: Capacity (copper busbar) Terminal capacity (copper solid conductor/cable) Image: Capacity (copper solid conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable)	0.75 mm² - 1.5 mm² (2x) 0.75 mm² - 2.5 mm² (1x) 10 mm² - 16 mm² (2x) direct at switch rear-side connection 16 mm² (1x) at tunnel terminal 10 mm² - 16 mm² (1x) direct at switch rear-side connection 25 mm² - 35 mm² (2x) direct at switch rear-side connection 25 mm² - 35 mm² (1x) at tunnel terminal 25 mm² - 35 mm² (1x) direct at switch rear-side connection Max. 16 mm x 5 mm direct at switch rear-side connection Max. 16 mm x 5 mm direct at switch rear-side connection Max. 16 mm x 5 mm direct at switch rear-side connection Max 16 mm x 5 mm direct at switch rear-side connection M6 at rear-side screw connection 6 mm² - 16 mm² (2x) at box terminal 16 mm² (1x) at tunnel terminal 10 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (1x) direct at switch rear-side connection 10 mm² - 70 mm² (1x) direct at switch rear-side connection 6 mm² - 25 mm² (1x) at 1-hole tunnel terminal 25 mm² (2x) direct at switch rear-side connection 10 mm² - 70 mm² (1x) at box terminal 6 mm² - 25 mm² (2x) at box terminal 6 mm² - 25 mm² (2x) direct at switch rear-side connection 10 mm² - 70 mm² (1x) at tox terminal 6 mm² - 25 mm² (2x) at box terminal 10 mm² - 70 mm² (1x) at box terminal 6 mm² - 25 mm² (2x) at box terminal 10 mm² - 70 mm² (1x) at box terminal 10 mm² - 70 mm² (1x) at box terminal 10 mm² - 25 mm² (2x) at box terminal 10 mm² - 25 mm² (2x) at box terminal 10 mm² - 25 mm² (2x) at box terminal
Terminal capacity (aluminum solid conductor/cable) Image: Capacity (aluminum stranded conductor/cable) Terminal capacity (aluminum stranded conductor/cable) Image: Capacity (copper busbar) Terminal capacity (copper solid conductor/cable) Image: Capacity (copper solid conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable) Design verification as per IEC/EN 61439 - technical data Image: Capacity (copper stranded conductor/cable)	0.75 mm² - 1.5 mm² (2x) 0.75 mm² - 2.5 mm² (1x) 10 mm² - 16 mm² (2x) direct at switch rear-side connection 16 mm² (1x) at tunnel terminal 10 mm² - 35 mm² (2x) direct at switch rear-side connection 25 mm² - 35 mm² (2x) direct at switch rear-side connection 25 mm² - 35 mm² (1x) at tunnel terminal 25 mm² - 35 mm² (1x) direct at switch rear-side connection 25 mm² - 35 mm² (1x) direct at switch rear-side connection Max. 16 mm x 5 mm direct at switch rear-side connection Max. 16 mm x 5 mm direct at switch rear-side connection Max. 16 mm x 5 mm direct at switch rear-side connection Max. 16 mm x 5 mm direct at switch rear-side connection Max. 16 mm x 5 mm direct at switch rear-side connection Max 11 mm² (1x) direct at switch rear-side connection Mam² (1x) at tunnel terminal 10 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (1x) direct at switch rear-side connection 10 mm² - 70 mm² (1x) direct at switch rear-side connection 25 mm² - 25 mm² (1x) at tox terminal 10 mm² - 70 mm² (1x) direct at switch rear-side connection 25 mm² - 25 mm² (2x) direct at switch rear-side connection 25 mm² - 25 mm² (1x) at box terminal 10 mm² - 70 mm² (1x) direct at switch rear-side connection
Terminal capacity (aluminum solid conductor/cable) Image: Capacity (aluminum stranded conductor/cable) Terminal capacity (aluminum stranded conductor/cable) Image: Capacity (copper busbar) Terminal capacity (copper solid conductor/cable) Image: Capacity (copper solid conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable) Terminal capacity (copper stranded conductor) Image: Capac	0.75 mm² - 1.5 mm² (2x) 0.75 mm² - 2.5 mm² (1x) 10 mm² - 16 mm² (2x) direct at switch rear-side connection 16 mm² (1x) at tunnel terminal 10 mm² - 16 mm² (1x) direct at switch rear-side connection 25 mm² - 35 mm² (2x) direct at switch rear-side connection 25 mm² - 95 mm² (1x) at tunnel terminal 25 mm² - 35 mm² (1x) direct at switch rear-side 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 M6 at rear-side screw connection 6 mm² - 16 mm² (2x) at box terminal 16 mm² (1x) at tunnel terminal 10 mm² - 16 mm² (1x) at box terminal 10 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (1x) direct at switch rear-side connection 10 mm² - 70 mm² (1x) at 1-hole tunnel terminal 25 mm² (2x) direct at switch rear-side connection 10 mm² - 25 mm² (2x) at box terminal 6 mm² - 25 mm² (2x) at box terminal 6 mm² - 25 mm² (2x) at box terminal 10 mm² - 25 mm² (2x) at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal 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 Max. 9 segments of 9 mm x 0.8 mm at box terminal
Terminal capacity (aluminum solid conductor/cable) Image: Capacity (aluminum stranded conductor/cable) Terminal capacity (aluminum stranded conductor/cable) Image: Capacity (copper busbar) Terminal capacity (copper busbar) Image: Capacity (copper solid conductor/cable) Terminal capacity (copper solid conductor/cable) Image: Capacity (copper stranded conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable) Terminal capacity (copper stranded conductor/cable) Image: Capacity (copper stranded conductor/cable) Design verification as per IEC/EN 61439 - technical data Image: Capacity (copper stranded conductor) Rated operational current for specified heat dissipation (ln) Image: Capacity (copper stranded conductor) Equipment heat dissipation, current-dependent Image: Capacity (copper stranded conductor)	0.75 mm² - 1.5 mm² (2x) 0.75 mm² - 2.5 mm² (1x) 10 mm² - 16 mm² (2x) direct at switch rear-side connection 16 mm² (1x) at tunnel terminal 10 mm² - 16 mm² (1x) direct at switch rear-side connection 25 mm² - 35 mm² (2x) direct at switch rear-side connection 25 mm² - 95 mm² (1x) at tunnel terminal 25 mm² - 35 mm² (1x) direct at switch rear-side 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 M6 at rear-side screw connection 6 mm² - 16 mm² (2x) at box terminal 16 mm² (1x) at tunnel terminal 10 mm² - 16 mm² (1x) direct at switch rear-side connection M6 at rear-side screw connection 7 mm² - 16 mm² (1x) direct at switch rear-side connection M6 at rear-side screw connection 10 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (1x) direct at switch rear-side connection 6 mm² - 16 mm² (2x) direct at switch rear-side connection 10 mm² - 70 mm² (1x) direct at switch rear-side connection 25 mm² - 95 mm² (1x) at 1-hole tunnel terminal 25 mm² - 25 mm² (2x) direct at switch rear-side connection 10 mm² - 70 mm² (1x) at box terminal 6 mm² - 25 mm² (2x) at box terminal 6 mm² - 25 mm² (2x) at box terminal 6 mm² - 25 mm² (2x) at box terminal 100 A 21.9 W

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	System and cable protection

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228)

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Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss13-27-37-04-09 [AJZ716018])				
Rated permanent current lu	А	100		
Rated voltage	V	440 - 440		
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	25		
Overload release current setting	А	80 - 100		
Adjustment range short-term delayed short-circuit release	А	0 - 0		
Adjustment range undelayed short-circuit release	А	600 - 1000		
Power loss	W	21.9		
Device construction		Built-in device plug-in technique		
Integrated earth fault protection		No		
Type of electrical connection of main circuit		Frame clamp		
Suitable for DIN rail (top hat rail) mounting		No		
DIN rail (top hat rail) mounting optional		Yes		
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		
With switched-off indicator		No		
With integrated under voltage release		No		
Number of poles		3		
Position of connection for main current circuit		Front side		
Type of control element		Rocker lever		
Complete device with protection unit		Yes		
Motor drive integrated		No		
Motor drive optional		No		