DATASHEET - NZMN3-4-A400-SVE

Part no. Catalog No.

EL-Nummer

(Norway)

No.



Circuit-breaker, 4p, 400A, plug-in module

NZMN3-4-A400-SVE 168510 Alternate Catalog NZMN3-4-A400-SVE

0004357595



Similar to illustration

Delivery program

Switching capacity			
400/415 V 50 Hz	l _{cu}	kA	50
Rated current = rated uninterrupted current			
Rated current = rated uninterrupted current	$I_n = I_u$	А	400
Neutral conductor	% of phase conductor	%	100
Setting range			
Overload trip			
Main pole	l _r	A	320 - 400
Short-circuit releases			
Non-delayed	l _i = l _n x		6 - 10

Technical data General

	°C	- 40 - + 70
	°C	-25 - +70
$I_n = I_u$	А	400
I _{cn}		
lcu	kA	
I _{cu}	kA	50
I _{cu}	kA	30
I _{cu}	kA	30
lcs	kA	
Ics	kA	30
I _{cs}	kA	30
	Icn Icu Icu Icu Icu Icu Ics Ics	$^{\circ}C$ $I_n = I_u$ A I_{cn} KA I_{cu} kA I_{cu} kA I_{cu} kA I_{cu} kA I_{cs} kA

Design verification as per IEC/EN 61439

Technical data for design verification			
Equipment heat dissipation, current-dependent	P _{vid}	W	96.48
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties	
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.

Technical data ETIM 7.0

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

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@ss10.0.1-27-37-04-09 [AJZ716013])

Type of electrical connection of main circuit For every connection Device construction Screw connection Suitable for DIN rail (top hat rail) mounting No DIN rail (top hat rail) mounting optional No Number of auxiliary contacts as normally closed contact O Number of auxiliary contacts as normally closed contact O Number of auxiliary contacts as normally closed contact O Number of auxiliary contacts as change-over contact O With under voltage release No Number of poles No Position of connection for main current circuit Fort side Type of control element Fort side Complete device with protection unit Fort side Motor drive integrated Yes Motor drive optional Yes	protection (eci@ss10.0.1-27-37-04-09 [AJZ710013])		
Rated short-circuit breaking capacity lou at 400 V, 50 Hz Ke Solution Davinda release current setting A 320 -400 Adjustment range short-term delayed short-circuit release A 0 Adjustment range undelayed short-circuit release A 6 Adjustment range undelayed short-circuit release A 6 Adjustment range undelayed short-circuit release A 6 No No No Stable for DIN rail (top hat rail) mounting Built-in device plug-in technique Divice construction Built-in device plug-in technique Number of auxiliary contacts as normally closed contact M No Number of auxiliary contacts as change-over contact M No With under voltage release No No Number of poles No No Number of control for main current circuit M No Number of poles No No Number of poles No No Number of poles Fort side No Number of poles Fort side No <td< td=""><td>Rated permanent current lu</td><td>А</td><td>400</td></td<>	Rated permanent current lu	А	400
Overload release current setting A 20 - 400 Adjustment range short-terr delayed short-circuit release A 0 Adjustment range undelayed short-circuit release A 6 Adjustment range undelayed short-circuit release A 6 Integrated earth fault protection No No Type of electrical connection of main circuit Serve connection Built-in device plug-in technique Davice construction M No No Dur rail (top hat rail) mounting optional M No No Number of auxiliary contacts as normally closed contact M No No Number of auxiliary contacts as change-over contact M No No With under voltage release M No No No Number of poles M M No No No Number of poles M M No No No Number of poles No	Rated voltage	V	690 - 690
Adjustment range short-err delayed short-circuit release Adjustment range undelayed range release Adjustment range release	Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	50
Adjustment range undelayed short-circuit release 6 10 Integrated earth fault protection 6 10 Type of electrical connection of main circuit Screw connection Screw connection Device construction Suitable for DIN rail (top hat rail) mounting optional Screw connection DIN rail (top hat rail) mounting optional Mo No Number of auxiliary contacts as normally closed contact Mo No Number of auxiliary contacts as normally closed contact Mo No With workched-off indicator Mo No With under voltage release Mo No Number of poles Mo No Type of control element Mo No Toppe of control element Fort side Mo Complete device with protection unit Mo No Motor drive integrated Mo Screw contact Motor drive integrated Mo Screw contact	Overload release current setting	А	320 - 400
Integrate dearth fault protection No Type of electrical connection of main circuit Screw connection Device construction Built-in device plug-in technique Suitable for DIN rail (top hat rail) mounting No DIN rail (top hat rail) mounting optional No Number of auxiliary contacts as normally closed contact No Number of auxiliary contacts as normally constact Jo Number of auxiliary contacts as change-over contact Jo With under voltage release No Number of poles Fort side Position of connection for main current circuit Fort side Type of control element Fort side Complete device with protection unit Fort side Motor drive integrated Yes	Adjustment range short-term delayed short-circuit release	А	0 - 0
Type of electrical connection of main circuit For every connection Device construction Screw connection Suitable for DIN rail (top hat rail) mounting No DIN rail (top hat rail) mounting optional No Number of auxiliary contacts as normally closed contact O Number of auxiliary contacts as normally closed contact O Number of auxiliary contacts as normally closed contact O Number of auxiliary contacts as change-over contact O With under voltage release No Number of poles No Position of connection for main current circuit Fort side Type of control element Fort side Complete device with protection unit Fort side Motor drive integrated Yes Motor drive optional Yes	Adjustment range undelayed short-circuit release	А	6 - 10
Device construction Built-in device plug-in technique Suitable for DIN rail (top hat rail) mounting No DIN rail (top hat rail) mounting optional No Number of auxiliary contacts as normally closed contact No Number of auxiliary contacts as normally open contact O Number of auxiliary contacts as normally open contact O Number of auxiliary contacts as normally open contact O Number of auxiliary contacts as change-over contact O Number of auxiliary contacts as change-over contact No Number of auxiliary contacts as change-over contact O Number of plug No Number of plug Fort side Number of plug Fort side No No No No Nord rive integrated No Motor drive optional Yes No No	Integrated earth fault protection		No
Suitable for DIN rail (top hat rail) mounting No DIN rail (top hat rail) mounting optional No Number of auxiliary contacts as normally closed contact 0 Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as change-over contact 0 Number of poles No Number of poles No Number of poles Front side Type of control element Rocker lever Complete device with protection unit Yes Motor drive potional Yes	Type of electrical connection of main circuit		Screw connection
DN rail (top hat rail) mounting optionalNoNumber of auxiliary contacts as normally closed contact0Number of auxiliary contacts as normally open contact0Number of auxiliary contacts as normally open contact0Number of auxiliary contacts as change-over contact0With switched-off indicatorNoWith under voltage releaseNoNumber of polesNoPosition of connection for main current circuitImage: Solar Sol	Device construction		Built-in device plug-in technique
Number of auxiliary contacts as normally closed contactImage: Content of auxiliary contacts as normally open contactImage: Content of auxiliary contacts as normally open contactImage: Content of auxiliary contacts as normally open contactImage: Content of auxiliary contacts as change-over contactImage: Content of auxiliary content of auxiliary contacts as change-over contactImage: Content of auxiliary content of auxil	Suitable for DIN rail (top hat rail) mounting		No
Number of auxiliary contacts as normally open contactImage: Content of auxiliary contacts as change-over contacts as change-over contacts as change-over contactImage: Content of auxiliary contacts as change-over contacts as change-o	DIN rail (top hat rail) mounting optional		No
Number of auxiliary contacts as change-over contact Image: Content of the conten	Number of auxiliary contacts as normally closed contact		0
With switched-off indicatorNoWith under voltage releaseNoNumber of polesAPosition of connection for main current circuitComplete device with protection unitType of control elementComplete device with protection unitNotor drive integratedComplete device with protection unitMotor drive integratedComplete device with protection unitNotor drive optionalComplete device with protection unitMotor drive integratedComplete device with protection unitNotor drive optionalComplete device with protection unitMotor drive op	Number of auxiliary contacts as normally open contact		0
With under voltage releaseNoNumber of poles4Position of connection for main current circuitFont sideType of control elementRocker leverComplete device with protection unitYesMotor drive integratedNoMotor drive optionalSole SoleMotor drive optionalSole Sole SoleMotor drive optionalSole Sole Sole SoleMotor drive optionalSole Sole Sole Sole Sole Sole Sole Sole	Number of auxiliary contacts as change-over contact		0
Number of poles 4 Position of connection for main current circuit Ford side Type of control element Rocker lever Complete device with protection unit Yes Motor drive integrated No Motor drive optional Sector	With switched-off indicator		No
Position of connection for main current circuitFont sideType of control elementRocker leverComplete device with protection unitYesMotor drive integratedNoMotor drive optionalSet Set Set Set Set Set Set Set Set Set	With under voltage release		No
Type of control element Rocker lever Complete device with protection unit Yes Motor drive integrated No Motor drive optional Yes	Number of poles		4
Complete device with protection unit Yes Motor drive integrated No Motor drive optional Image: State Sta	Position of connection for main current circuit		Front side
Motor drive optional Model	Type of control element		Rocker lever
Motor drive optional Yes	Complete device with protection unit		Yes
	Motor drive integrated		No
Degree of protection (IP) IP20	Motor drive optional		Yes
	Degree of protection (IP)		IP20

Additional product information (links)

additional technical information for NZM power switch

https://es-assets.eaton.com/DOCUMENTATION/PDF/nzm_technic_de_en.pdf