DATASHEET - NZMN3-A320-SVE

Part no.

No.



Circuit-breaker, 3p, 320A, plug-in module

NZMN3-A320-SVE Catalog No. 168486 NZMN3-A320-SVE Alternate Catalog



EL-Nummer 4357588 (Norway)

Delivery program

l _{cu}	kA	50
$I_n = I_u$	А	320
I _r	A	250 - 320
I _i = I _n x		6 - 10
	I _n = I _u I _r	I _n = I _u A

Technical data

General			
Ambient temperature			
Ambient temperature, storage		°C	- 40 - + 70
Operation		°C	-25 - +70
Circuit-breakers			
Rated current = rated uninterrupted current	$I_n = I_u$	А	320
Switching capacity			
Rated short-circuit breaking capacity I _{cn}	I _{cn}		
Icu to IEC/EN 60947 test cycle 0-t-C0	lcu	kA	
400/415 V 50/60 Hz	I _{cu}	kA	50
500 V DC	I _{cu}	kA	30
750 V DC	I _{cu}	kA	30
Ics to IEC/EN 60947 test cycle 0-t-C0-t-C0	Ics	kA	
500 V DC	I _{cs}	kA	30
750 V DC	Ics	kA	30

Design verification as per IEC/EN 61439

I _n	А	320
P _{vid}	W	78.64
	°C	-25
	°C	70
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		P _{vid} W °C

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])

Rate voltage 90 600 600 Rated short-circuit breaking capacity lue at 400 V, 50 Hz KA 50 Overload release current setting 20 320 Adjustment range short-circuit release A 0 Adjustment range undelayed short-circuit release A 0 Integrated earth fault protection A 500 3200 Type of electrical connection of main circuit A Built-in device plug-in technique Davice construction Serve connection Built-in device plug-in technique Stable for DIN rail (top hat rail) mounting A 0 A Number of auxiliary contacts as normally open contact A 0 A Number of auxiliary contacts as change-over contact A 0 A Number of poles A A A Number of poles	protection (eci@ss10.0.1-27-37-04-09 [AJZ/16013])		
Rated short-circuit breaking capacity lou at 400 V, 50 Hz Image short-circuit breaking capacity lou at 400 V, 50 Hz Overload release current setting A 50 - 320 Adjustment range short-term delayed short-circuit release A 100 - 3200 Adjustment range undelayed short-circuit release A 50 - 3200 Integrated eath fault protection Fee Screw connection Type of electrical connection of main circuit Built-in device plug-in technique Davice construction Built-in device plug-in technique Suitable for DIN rail (top hat rail) mounting optional Image short-term delayed contact Number of auxiliary contacts as normally closed contact Image short-term delayed contact Image short-term delayed contact With under voltage release Image short-term delayed contact Image short-term delayed contact Image short-term delayed contact You for close of function Image short-term delayed contact Image short-term delayed contact Image short-term delayed contact Number of auxiliary contacts as change-over contact Image short-term delayed contact Image short-term delayed contact Image short-term delayed contact Number of poles Image short-term delayed contact Image short-term delayed contact Image short-term delayed contact	Rated permanent current lu	А	320
Overload release current setting A 250-320 Adjustment range short-terr delayed short-circuit release A 0 Adjustment range undelayed short-circuit release A 500-3200 Adjustment range undelayed short-circuit release A 500-3200 Integrated earth fault protection Fore No Type of electrical connection of main circuit Serve connection Serve connection Davie o construction Serve connection No Davie of auxiliary contacts as normally closed contact Serve construction No Number of auxiliary contacts as change-over contact Serve construction No With under voltage release Serve construction No Number of poles Serve construction No You of control element Serve construction No Number of poles Serve construction No You of control element Serve construction Serve construction You of control element Serve construction Serve construction You of control element Serve construction Serve construction You of cont	Rated voltage	V	690 - 690
Adjustment range short-terr delayed short-circuit release Adjustment range undelayed range release Adjustment range range release Adjustment range	Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	50
Adjustment range undelayed short-circuit release F00 - 2200 Integrated earth fault protection F00 - 2200 Type of electrical connection of main circuit F00 - 2200 Device construction Serve connection Suitable for DIN rail (top hat rail) mounting optional F00 - 2200 Number of auxiliary contacts as normally closed contact F00 - 2200 Number of auxiliary contacts as change-over contact F00 - 2200 With under voltage release F00 - 2200 Number of poles F00 - 2200 Position of connection formain current circuit F00 - 2200 Type of control element F00 - 2200 Complete device with protection unit F00 - 2200 Motor drive integrated F00 - 2200	Overload release current setting	А	250 - 320
Integrated earth 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 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 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 Motor drive integrated Yes	Adjustment range short-term delayed short-circuit release	А	0 - 0
Type of electrical connection of main circuit Provide construction 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 O Number of auxiliary contacts as normally open contact O Number of auxiliary contacts as change-over contact O With under voltage release No Number of poles Socker lever Position of connection formain current circuit Socker lever Complete device with protection unit Socker lever Motor drive integrated Yes Motor drive optional Yes	Adjustment range undelayed short-circuit release	А	1500 - 3200
Answitz Built-in device plug-in technique 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 change-over contact O With switched-off indicator No Number of ples No Number of poles No Position of connection for main current circuit Front side Type of control element Foot side Complete device with protection unit Yes Motor drive integrated 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 No Number of auxiliary contacts as change-over contact No Number of auxiliary contacts as change-over contact So Number of auxiliary contacts as change-over contact No Number of poles Rocker lever Type of control element No Notor drive integrated No </td <td>Type of electrical connection of main circuit</td> <td></td> <td>Screw connection</td>	Type of electrical connection of main circuit		Screw connection
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 With switched-off indicator No With under voltage release No Number of poles 0 Position of connection formain current circuit Font side Type of control element Rocker lever Complete device with protection unit Yes Motor drive pitonal Yes Motor drive optional Yes	Device construction		Built-in device plug-in technique
Number of auxiliary contacts as normally closed 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 With switched-off indicator No With under voltage release No Number of poles S Position of connection for main current circuit Font side Type of control element Socker lever Complete device with protection unit Yes Motor drive integrated No Motor drive optional Yes	Suitable for DIN rail (top hat rail) mounting		No
Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as change-over contact 0 With switched-off indicator 0 With switched-off indicator No Number of poles No Position of connection for main current circuit Font side Type of control element Font side Complete device with protection unit Font side Motor drive integrated Yes Motor drive optional Yes	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 indicator No With switched-off indicator No With under voltage release No Number of poles S Position of connection for main current circuit Font side Type of control element Rocker lever Complete device with protection unit Yes Motor drive integrated No Motor drive optional S	Number of auxiliary contacts as normally open contact		0
With under voltage releaseNoNumber of poles3Position of connection for main current circuitFront sideType of control elementRocker leverComplete device with protection unitYesMotor drive integratedNoMotor drive optionalSet Set Set Set Set Set Set Set Set Set	Number of auxiliary contacts as change-over contact		0
Number of poles 3 Position of connection for main current circuit Image: Connection for main current circuit Type of control element Image: Connection unit Complete device with protection unit Image: Connection for main current circuit Motor drive integrated Image: Connection for main current circuit Motor drive optional Image: Connection for main current circuit	With switched-off indicator		No
Position of connection for main current circuitFont sideType of control elementRocker leverComplete device with protection unitYesMotor drive integratedNoMotor drive optionalSection (Section Control Co	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		3
Complete device with protection unit Yes Motor drive integrated No Motor drive optional Yes	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)	Motor drive optional		Yes
	Degree of protection (IP)		IP20

Additional product information (links)

additional technical information for NZM power switch

ftp://ftp.moeller.net/DOCUMENTATION/PDF/nzm_technic_de_en.pdf