DATASHEET - NZMH3-4-A500-SVE



Circuit-breaker, 4p, 500A, withdrawable unit

Part no. NZMH3-4-A500-SVE Catalog No. 168893

Alternate Catalog NZMH3-4-A500-SVE

No.

EL-Nummer 4357616

(Norway)



Delivery program				
Protective function			System and cable protection	
Standard/Approval			IEC	
Switching capacity				
400/415 V 50 Hz	I _{cu}	kA	150	
Rated current = rated uninterrupted current				
Rated current = rated uninterrupted current	$I_n = I_u$	Α	500	
Neutral conductor	% of phase conductor	%	100	
Setting range				
Overload trip				
中	l _r	Α	400 - 500	
Main pole	I _r	A	400 - 500	
Short-circuit releases				
Non-delayed	$I_i = I_n x \dots$		6 - 10	

Technical data

General

Ambient temperature				
Ambient temperature, storage		°C	- 40 - + 70	
Operation		°C	-25 - +70	
Circuit-breakers Circuit-breakers				
Rated current = rated uninterrupted current	$I_n = I_u$	Α	500	
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	150	
Ics to IEC/EN 60947 test cycle 0-t-C0-t-C0	Ics	kA		
500 V DC	I _{cs}	kA	70	
750 V DC	I _{cs}	kA	70	

Design verification as per IEC/EN 61439

-	Fechnical data for design verification			
	Rated operational current for specified heat dissipation	In	Α	500
	Equipment heat dissipation, current-dependent	P _{vid}	W	130.5
	Operating ambient temperature min.		°C	-25
	Operating ambient temperature max.		°C	70

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

protection (ecl@ss10.0.1-27-37-04-09 [AJZ716013])			
Rated permanent current lu	А	١	500
Rated voltage	V	1	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	k/	Α	150
Overload release current setting	А	١	400 - 500
Adjustment range short-term delayed short-circuit release	А	١	0 - 0
Adjustment range undelayed short-circuit release	А	١.	6 - 10
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			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			4
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			Yes
Degree of protection (IP)			IP20

Additional product information (links)

additional technical information for NZM power switch

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