DATASHEET - NZMC3-S320-SVE

Part no. Catalog No.

No.

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

Alternate Catalog NZMC3-S320-SVE

168454

NZMC3-S320-SVE



Similar to illustration

Delivery program

Description			Motor protection in conjunction with overload relay With short-circuit release Without overload release Ir IEC/EN 60947-4-1, IEC/EN 60947-2 The circuit-breaker fulfills all requirements for AC-3 switching category.
Rated current = rated uninterrupted current	$I_n = I_u$	А	320
Switching capacity			
400/415 V 50 Hz	l _{cu}	kA	36
Setting range			
Short-circuit releases			
Non-delayed	I _i = I _n x		8 - 14
Motor rating AC-3 at 400 V 50/60 Hz			
380 V 400 V	Р	kW	160
Rated operational current AC-3 at 400 V 50/60 Hz			
400 V	I _e	А	279

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-CO	lcu	kA	
400/415 V 50/60 Hz	l _{cu}	kA	36

Design verification as per IEC/EN 61439

Technical data for design verification			
Equipment heat dissipation, current-dependent	P _{vid}	W	78.64
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.

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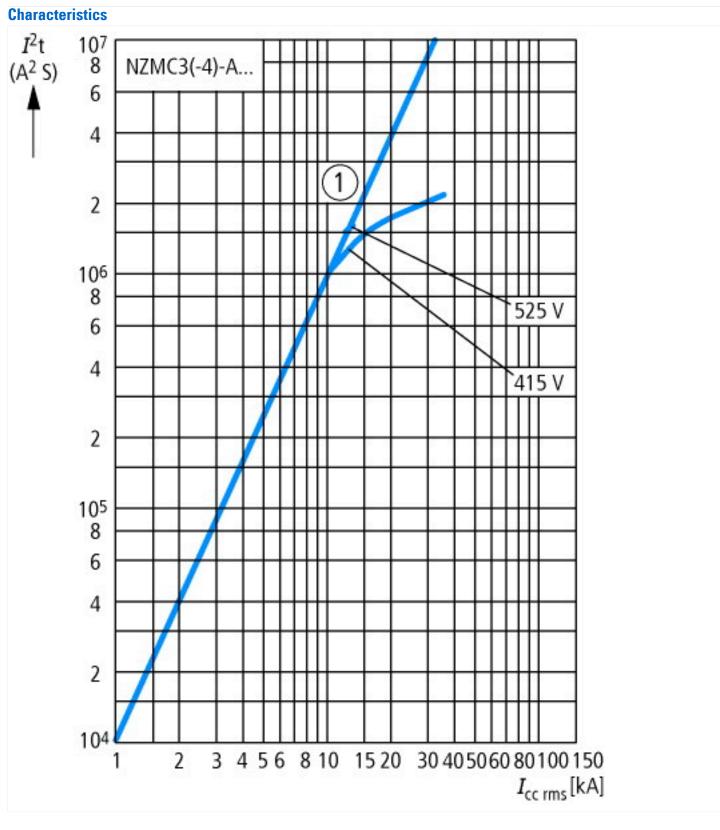
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire 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) / Motor protection circuit-breaker (EC000074)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Motor protection circuit-breaker (ecl@ss10.0.1-27-37-04-01 [AGZ529016])

A A A A A A A A A A A A A A A A A			
With thermal protection No Phase failure sensitive No Switch off technique Magnetic Rated operating voltage V 690 - 690 Rated operating voltage V 600 - 690 Rated operating power at AC-3, 230 V KW 90 Rated operation power at AC-3, 400 V KW 600 Type of electrical connection of main circuit KW 60 Type of control element KW 60 With integrated auxiliary switch KW 60 With integrated under voltage release KW No Number of poles KW 100 Rated short-circuit breaking capacity (cu at 400 V, AC KW 100 Number of poles KW 100 Rated short-circuit breaking capacity (cu at 400 V, AC KM 100 Bated short-circuit breaking capacity (cu at 400 V, AC KM 100 Bated short-circuit breaking capacity (cu at 400 V, AC KM 100 Bated short-circuit breaking capacity (cu at 400 V, AC FM 100 Bated short-circuit breaking capacity (cu at 400 V	Overload release current setting	А	0 - 0
Phase failure sensitive No Switch off technique Magnetic Rated operating voltage 90 - 690 Rated operating voltage A Rated operating voltage A Rated operating notwer at AC-3, 200 V KW Rated operation power at AC-3, 400 V KW Type of electrical connection of main circuit KW Type of control element Fore Device construction Fore With integrated auxiliary switch Fore With integrated under voltage release Fore Number of poles Fore Rated speration (IP) Fore Number of poles Fore Rated sperating (IP) Fore Rated sperating (IP) Fore Rated sperating (IP) Fore Number of poles Fore Rated sperating (IP) Fore	Adjustment range undelayed short-circuit release	А	8 - 14
Switch off technique Image: Mage: Mage	With thermal protection		No
Rated operating voltage V 600 - 660 Rated operating voltage A 320 Rated operation power at AC-3, 230 V KW 90 Rated operation power at AC-3, 400 V KW 60 Type of electrical connection of main circuit KW 60 Type of control element KW 60 Device construction KW 60 With integrated auxiliary switch KW 60 Number of poles KW 80 Rated short-circuit breaking capacity lcu at 400 V, AC KM KA Degree of protection (IP) KM 60 Height mm 152 With M Main Call 152	Phase failure sensitive		No
Rated permanent current lu A 20 Rated operation power at AC-3, 230 V KW 90 Rated operation power at AC-3, 400 V F 60 Type of electrical connection of main circuit F F Type of control element KW 80 Device construction F F With integrated auxiliary switch F 80 Number of poles S No Rated short-circuit breaking capacity lcu at 400 V, AC KA 60 Degree of protection (IP) F 60 Height mm 15.2 With M mm 15.2	Switch off technique		Magnetic
Rated operation power at AC-3, 230 V kW 9 Rated operation power at AC-3, 400 V KW 60 Type of electrical connection of main circuit KW 60 Type of electrical connection of main circuit KW 8cker lower Type of control element KW 8cker lower Device construction KM 8cker lower With integrated auxiliary switch KM 8uit-in device plug-in technique Number of poles KM No Rated short-circuit breaking capacity Lou at 400 V, AC KA 3c Page of protection (IP) KA Sc Sc Height mm 2152	Rated operating voltage	V	690 - 690
Rated operation power at AC-3, 400 V KW 60 Type of electrical connection of main circuit KW 50 Type of control element KW Screw connection Device construction KM KM Screw connection With integrated auxiliary switch KM Screw connection (up on the chnique With integrated under voltage release KM No Screw connection (up on the chnique) Number of poles KA Screw connection (up on the chnique) No Degree of protection (IP) KA Screw connection Screw connection Height Mm Strew connection Screw connection With integrated under voltage release Mm Screw connection Screw connection Number of poles KM Screw connection Screw connection Screw connection Degree of protection (IP) KM Screw connection Screw connection Screw connection Height Screw connection Screw connection Screw connection Screw connection With integrated under voltage connection (IP) Screw connection Screw connection Screw connection Mithow connection (IP) <td>Rated permanent current lu</td> <td>А</td> <td>320</td>	Rated permanent current lu	А	320
Type of electrical connection of main circuit File Screw connection Type of control element Roker lever Device construction Built-in device plug-in technique With integrated auxiliary switch No With integrated under voltage release Image: Streme of protection (IP) Degree of protection (IP) Image: Streme of main circuit Height Image: Streme of main circuit Mithin Streme of main circuit Image: Streme of main circuit Mithin Streme of main circuit Image: Streme of main circuit Mithin Streme of main circuit Streme of main circuit Muthin Streme of main circuit Streme of main circuit Muthin Streme of main circuit Streme of main circuit Mithin Streme of main circuit Streme of main circuit Mithin Streme of main circuit Streme of main circuit Mithin Streme of main circuit Streme of main circuit Mithin Streme of main circuit Streme of main circuit Mithin Streme of main circuit Streme of main circuit Mithin Streme of main circuit Streme of main circuit Mithin Streme of main circuit Streme of main circuit Mithin Streme of main circuit Streme of main c	Rated operation power at AC-3, 230 V	kW	90
Type of control element Recker lever Device construction Built-in device plug-in technique With integrated auxiliary switch No With integrated under voltage release No Number of poles Safet and Safet auxiliary switch Degree of protection (IP) Hammer Height Immer With integrated auxiliary switch Safet auxiliary switch Degree of protection (IP) Immer Height Immer With integrated auxiliary switch Safet auxiliary switch	Rated operation power at AC-3, 400 V	kW	160
Provide construction Provide construction Provide construction Provide construction With integrated auxiliary switch Image: Construction No With integrated under voltage release Image: Construction No Number of poles Image: Construction Image: Construction Rated short-circuit breaking capacity lcu at 400 V, AC Image: Construction Image: Construction Height Image: Construction Image: Construction Image: Construction With integrated under voltage construction Image: Construction Image: Construction Number of poles Image: Construction Image: Construction Image: Construction Number of poles Image: Construction Image: Construction Image: Construction Number of poles Image: Construction Image: Construction Image: Construction No Image: Construction	Type of electrical connection of main circuit		Screw connection
With integrated auxiliary switch No With integrated under voltage release No Number of poles 3 Rated short-circuit breaking capacity lcu at 400 V, AC A Degree of protection (IP) Mm Height mm Yith integrated under voltage release 10 With integrated under voltage release Mo Stated short-circuit breaking capacity lcu at 400 V, AC A Matter of poles 10	Type of control element		Rocker lever
With integrated under voltage release No Number of poles 3 Rated short-circuit breaking capacity lcu at 400 V, AC KA Degree of protection (IP) IP20 Height mm 215.2	Device construction		Built-in device plug-in technique
Number of poles 3 Rated short-circuit breaking capacity lcu at 400 V, AC KA 36 Degree of protection (IP) IP0 IP1 Height mm 215.2 Width mm 140	With integrated auxiliary switch		No
Rated short-circuit breaking capacity lcu at 400 V, AC KA 36 Degree of protection (IP) IP20 Height mm 215.2 Width mm 140	With integrated under voltage release		No
Degree of protection (IP) IP20 Height mm 215.2 Width mm 140	Number of poles		3
Height mm 215.2 Width mm 140	Rated short-circuit breaking capacity Icu at 400 V, AC	kA	36
Width mm 140	Degree of protection (IP)		IP20
	Height	mm	215.2
Depth mm 335	Width	mm	140
	Depth	mm	335



Additional product information (links)

additional technical information for NZM power switch

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