DATASHEET - NZMC3-S250-SVE

Part no. Catalog No.

No.

Circuit-breaker, 3p, 250A, plug-in module

Alternate Catalog NZMC3-S250-SVE

168453

NZMC3-S250-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	250
Switching capacity			
400/415 V 50 Hz	I _{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	132
Rated operational current AC-3 at 400 V 50/60 Hz			
400 V	l _e	А	231

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	250
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	68.25
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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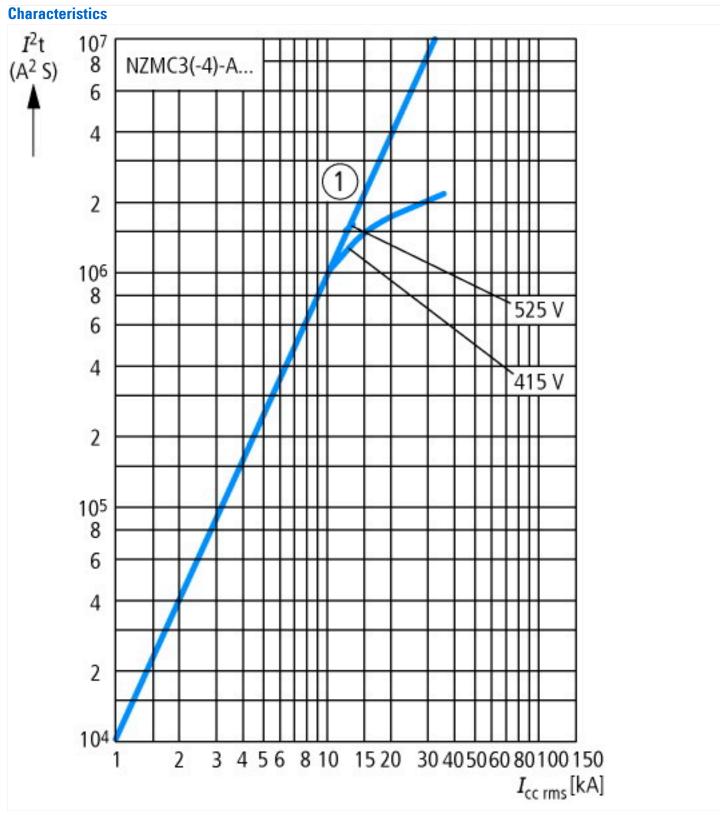
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire 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])

Agistment range undelayed short-circuit release Mith themal protection Mith Mith the			
With thermal protection No Whith thermal protection No Phase failure sensitive No Switch off technique Magnetic Rated operating voltage V 690 - 690 Rated operating power at AC-3,230 V KW 7 Rated operation power at AC-3,230 V KW 5 Rated operation power at AC-3,400 V KW 5 Proje of electrical connection of main circuit KW 6 Type of control element KW 6 With integrated auxiliary switch KW 6 Number of poles KW No Rated short-circuit breaking capacity (cu at 400 V, AC KM 9 Number of poles KW 10 10 Rated short-circuit breaking capacity (cu at 400 V, AC KM 9 10 Number of poles KM 10 10 10 Rated short-circuit breaking capacity (cu at 400 V, AC KM 10 10 Number of poles KM 10 10 10 Rated short-circuit breaking cap	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 notwer at AC-3, 230 V KW Rated operation power at AC-3, 400 V KW Type of electrical connection of main circuit KW Type of control element KW Device construction KW Viti integrated auxiliary switch KW With integrated under voltage release KW Rated sperating (Lag and the specific connection (P) KW Rated operation power at AC-3, 400 V KW Type of control element KW Type of control element KW Rated appreservation KW With integrated auxiliary switch KM With integrated under voltage release KM Rated short-circuit breaking capacity lcu at 400 V, AC KM Degree of protection (IP) KM Rated short-circuit hereaking capacity lcu at 400 V, AC KM Rated short-circuit breaking capacity lcu at 400 V, AC KM Rated short-circuit hereaking	Adjustment range undelayed short-circuit release	А	8 - 14
Switch off technique Image: Mage: Mage	With thermal protection		No
Rated operating voltage V 600 - 690 Rated operating voltage A 20 Rated operation power at AC-3, 230 V KW 75 Rated operation power at AC-3, 400 V KW 32 Type of electrical connection of main circuit KW 8crew connection Type of control element KW 8crew connection With integrated auxiliary switch KM 8crew connection(ulement) Wuth integrated under voltage release KM No Number of poles KM Screw connection(ulement) Bated short-circuit breaking capacity lcu at 400 V, AC KM No Pagree of protection (IP) MM Screw connection Height mm 152 With M MC MC Screw connection (IP) MM Height MM MC	Phase failure sensitive		No
Rated permanent current lu A A Bated peration power at AC-3, 230 V KW 75 Rated operation power at AC-3, 400 V KW 132 Type of electrical connection of main circuit KW Screw connection Type of control element KW Screw connection Device construction Mith integrated auxiliary switch KM Built-in device plug-in technique With integrated under voltage release Mo No Model Number of poles KA Screw connection Screw connection Beigte of protection (IP) KA Screw connection Screw connection Height mm 152 Screw connection	Switch off technique		Magnetic
Rated operation power at AC-3, 230 V kW % Rated operation power at AC-3, 400 V KW % Type of electrical connection of main circuit KW % Type of electrical connection of main circuit Scew connection Type of control element KW % Device construction KW % With integrated auxiliary switch KM % Number of poles KM % Rated short-circuit breaking capacity lcu at 400 V, AC KA % Number of poles KA % Rated short-circuit breaking capacity lcu at 400 V, AC KA % Mith mm 15.2	Rated operating voltage	V	690 - 690
Rated operation power at AC-3, 400 V KW 32 Type of electrical connection of main circuit KW Screw connection Type of control element KW Screw connection Device construction KM Screw connection function With integrated auxiliary switch KM Screw connection function With integrated under voltage release KM Screw connection Number of poles KM Screw connection function Page of protection (IP) KA Screw connection Height Mm Strew connection Mith Fee Screw connection With integrated under voltage release KA Screw connection Number of poles KA Screw connection Reade short-circuit breaking capacity lou at 400 V, AC KA Screw connection Degree of protection (IP) KA Screw connection Screw connection Height Image: Screw connection Screw connection Screw connection Kith Image: Screw connection Screw connection Screw connection Kith Image: Screw connection Screw connection Screw connection	Rated permanent current lu	А	250
Type of electrical connection of main circuit Image: Sector Connection Screw connection Type of control element Image: Sector Construction Rocker lever Device construction Screw connection element Built-in device plug-in technique With integrated auxiliary switch Image: Sector Construction No With integrated under voltage release Image: Sector Construction No Number of poles Image: Sector Construction (IP) Image: Sector Construction Height Image: Sector Construction Image: Sector Construction (Image: Sector Construction (Image: Sector Construction (IP) Image: Sector Construction (Image: Sector Const	Rated operation power at AC-3, 230 V	kW	75
Type of control element Rocker lever Device construction Built-in device plug-in technique With integrated auxiliary switch No With integrated under voltage release No Number of poles Safe A Rated short-circuit breaking capacity lcu at 400 V, AC A Degree of protection (IP) Man Height Imm With integrated Safe A With integrated with integrated with integrated at 400 V, AC Man Bait-in device plug-in technique Safe A Manuel of protection (IP) Man Height Imm With integrated with integrated with integrated at 400 V, AC Man Manuel of protection (IP) Man Mathematic of the service of the serv	Rated operation power at AC-3, 400 V	kW	132
Provide construction Built-in device plug-in technique With integrated auxiliary switch No With integrated under voltage release Image: State Stat	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) Mmm Height Tmm With integrated under voltage release 140	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) IP2 Height mm 215.2 With integrated under voltage release Integrated under voltage release	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) IP20 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 15.2 Width mm 140	With integrated under voltage release		No
Degree of protection (IP)IP20Heightmm215.2Widthmm140	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