## **DATASHEET - NZMB2-A125-SVE**



Circuit-breaker, 3p, 125A, plug-in module

Part no. NZMB2-A125-SVE Catalog No. 113192



Similar to illustration

Delivery program			
Standard/Approval			IEC
Installation type			Plug-in units
Standard equipment			Screw connection
Switching capacity			
400/415 V 50 Hz	I <sub>cu</sub>	kA	25
Rated current = rated uninterrupted current			
Rated current = rated uninterrupted current	$I_n = I_u$	Α	125
Setting range			
Overload trip			
中	l <sub>r</sub>	A	100 - 125
Short-circuit releases			
Non-delayed	$I_i = I_n \times \dots$		6 - 10

## **Technical data**

### General

	°C	- 40 - + 70	
	°C	-25 - +70	
$I_n = I_u$	Α	125	
I <sub>cn</sub>			
lcu	kA		
I <sub>cu</sub>	kA	30	
I <sub>cu</sub>	kA	25	
I <sub>cu</sub>	kA	25	
I <sub>cu</sub>	kA	15	
Terminal capacity			
		Screw connection	
	I <sub>cn</sub> Icu I <sub>cu</sub> I <sub>cu</sub>	In = Iu A  Icu kA  Icu kA  Icu kA	

# Design verification as per IEC/EN 61439

Technical data for design verification			
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	27.61
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
EC/EN 61439 design verification			
10.2 Strength of materials and parts			

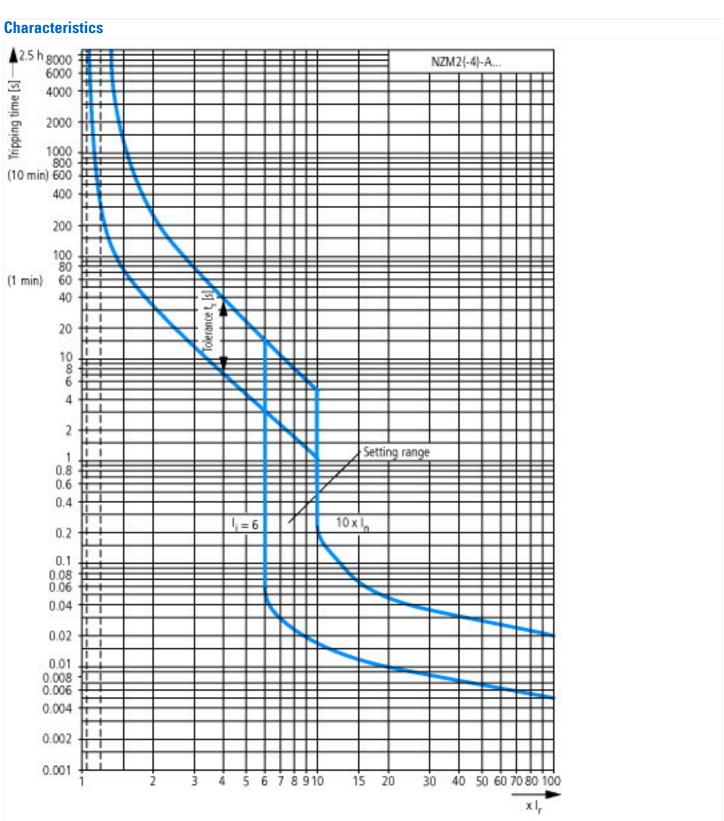
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Verification 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.

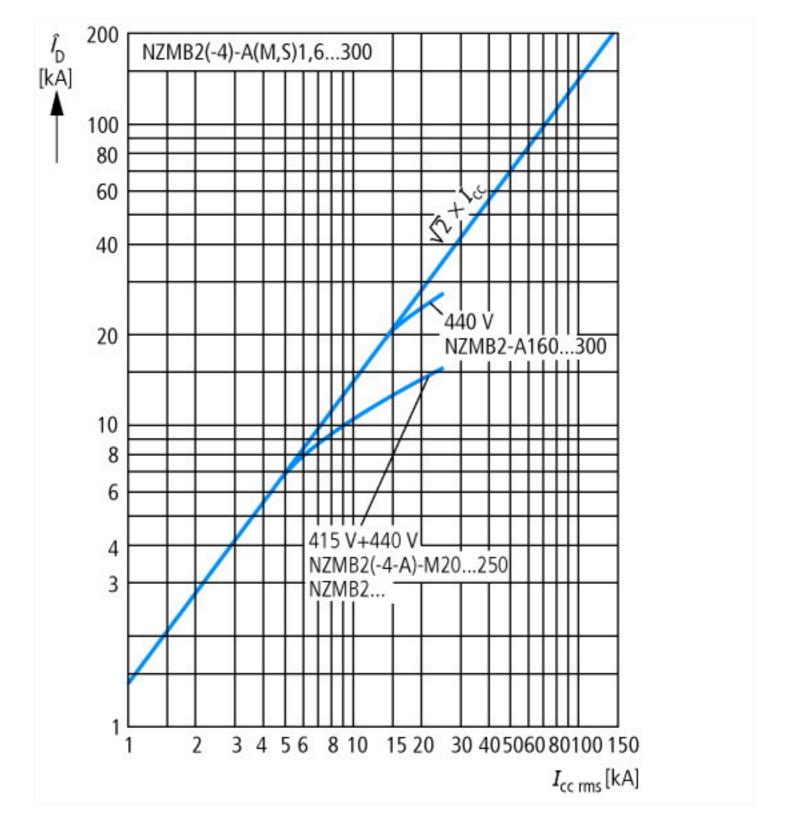
## **Technical data ETIM 7.0**

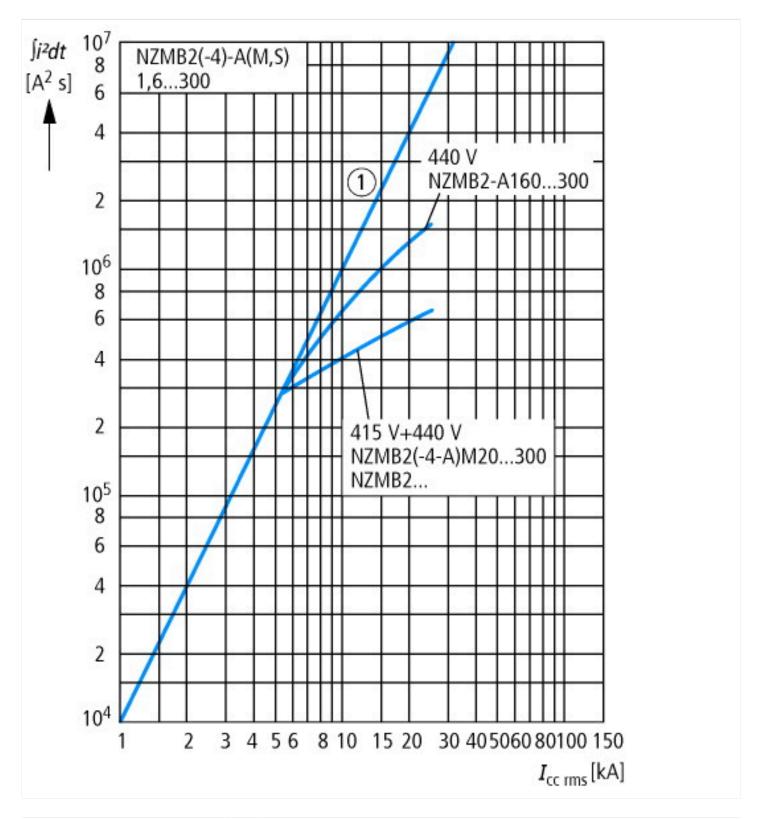
Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228)

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])

Rated voltage Rated voltage Rated short-circuit breaking capacity Icu at 400 V, 50 Hz Rated short-circuit breaking capacity Icu at 400 V, 50 Hz Rated short-circuit breaking capacity Icu at 400 V, 50 Hz Rated short-circuit release Rated short-circuit rele	protection (eci@8810.0.1-27-37-04-09 [AJZ/10013])		
Rated short-circuit breaking capacity lcu at 400 V, 50 Hz Overload release current setting Aljustment range short-term delayed short-circuit release Aljustment range undelayed short-ci	Rated permanent current lu	Α	125
Overload release current setting Adjustment range short-term delayed short-circuit release Adjustment range undelayed short-circuit release Built-in device plug-in technique Adjustment range undelayed short-circuit Application of auxiliary contacts as normally closed contact Adjustment range undelayed short-circuit Application of auxiliary contacts as change-over contact Adjustment range undelayed short-circuit Application of connection for main current circuit Application of connection unit Application of conne	Rated voltage	V	440 - 440
Adjustment range short-term delayed short-circuit release Adjustment range undelayed sont-circuit sont-circuit release Adjustment range undelayed sont-circuit release Adjustment range undelayed sont-circuit release Adjustment range undelayed	Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	25
Adjustment range undelayed short-circuit release A 750 - 1250  Integrated earth fault protection Type of electrical connection of main circuit  Device construction Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional  DIN rail (top hat rail) mounting optional  No  No  No  No  No  No  Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  No  With switched-off indicator  With switched-off indicator  With under voltage release  No  No  No  No  No  No  No  No  No  N	Overload release current setting	Α	100 - 125
Integrated earth fault protection Type of electrical connection of main circuit Device construction Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Number of poles Number of poles Number of poles No	Adjustment range short-term delayed short-circuit release	Α	0 - 0
Type of electrical connection of main circuit  Device construction  Built-in device plug-in technique  No  DIN rail (top hat rail) mounting  DIN rail (top hat rail) mounting optional  Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  With switched-off indicator  With under voltage release  No  Number of poles  Position of connection for main current circuit  Type of control element  Complete device with protection unit  Motor drive integrated  Motor drive optional  Screw connection  Built-in device plug-in technique  No  O  Roill-in device plug-in technique  No  No  No  Roill-in device plug-in technique  No  No  Roill-in device plug-in technique  Roill-in devic	Adjustment range undelayed short-circuit release	Α	750 - 1250
Device construction Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact 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 O Number of auxiliary contacts as change-over contact O With switched-off indicator No With under voltage release No	Integrated earth fault protection		No
Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Yes  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 Number of auxiliary contacts as change-over contact 0 With switched-off indicator No With under voltage release No No Number of poles 3 Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated No Motor drive optional  No Motor drive optional	Type of electrical connection of main circuit		Screw connection
DIN rail (top hat rail) mounting optional  Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as change-over contact  No  With switched-off indicator  With under voltage release  No  Number of poles  3  Position of connection for main current circuit  Type of control element  Complete device with protection unit  Motor drive integrated  No  Motor drive optional  Yes	Device construction		Built-in device plug-in technique
Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as change-over contact  No  With switched-off indicator  No  With under voltage release  No  No  Number of poles  3  Position of connection for main current circuit  Type of control element  Complete device with protection unit  Wotor drive integrated  No  Motor drive optional  No  No  No  No  No  No  No  No  No  N	Suitable for DIN rail (top hat rail) mounting		No
Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  No With switched-off indicator  With under voltage release  No Number of poles  Saron side  Type of control element  Complete device with protection unit  Motor drive integrated  Motor drive optional  O  O  No	DIN rail (top hat rail) mounting optional		Yes
Number of auxiliary contacts as change-over contact  With switched-off indicator  No  With under voltage release  No  Number of poles  Position of connection for main current circuit  Type of control element  Complete device with protection unit  Motor drive integrated  Motor drive optional  O  No  No  No  No  No  No  Yes	Number of auxiliary contacts as normally closed contact		0
With switched-off indicator  With under voltage release  No  Number of poles  Position of connection for main current circuit  Type of control element  Complete device with protection unit  Motor drive integrated  Motor drive optional  No  No  No  No  No  No  Yes	Number of auxiliary contacts as normally open contact		0
With under voltage release No Number of poles 3 Position of connection for main current circuit Type of control element Complete device with protection unit Wotor drive optional No	Number of auxiliary contacts as change-over contact		0
Number of poles  Rosition of connection for main current circuit  Type of control element  Complete device with protection unit  Motor drive optional  Solution of connection for main current circuit  Front side  Rocker lever  Rocker lever  Yes  Motor drive optional  Yes	With switched-off indicator		No
Position of connection for main current circuit  Type of control element  Complete device with protection unit  Motor drive optional  Front side  Rocker lever  Yes  No  Yes	With under voltage release		No
Type of control element Complete device with protection unit Motor drive optional Rocker lever Yes No Yes	Number of poles		3
Complete device with protection unit  Yes  Motor drive integrated  Motor drive optional  Yes  Yes	Position of connection for main current circuit		Front side
Motor drive integrated No Motor drive optional Yes	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

 $https://es-assets.eaton.com/DOCUMENTATION/PDF/nzm\_technic\_de\_en.pdf$