DATASHEET - NZMC2-A125-BT



Circuit-breaker, 3 p, 125A, box terminals

Part no. NZMC2-A125-BT Catalog No. 174616



Similar to illustration

Delivery program			
Product range			Circuit-breaker
Protective function			System and cable protection
Standard/Approval			IEC
Installation type			Fixed
Release system			Thermomagnetic release
Construction size			NZM2
Number of poles			3 pole
Standard equipment			Box terminal
Rated current = rated uninterrupted current			
Rated current = rated uninterrupted current	$I_n = I_u$	Α	125

Technical data

General

deliciui			
Ambient temperature			
Ambient temperature, storage		°C	- 40 - + 70
Operation		°C	-25 - +70
Circuit-breakers			
Rated current = rated uninterrupted current	$I_n = I_u$	Α	125
Overvoltage category/pollution degree			III/3
Terminal capacity			
Standard equipment			Box terminal

Design verification as per IEC/EN 61439

Technical data for design verification		
· ·		
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.
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.

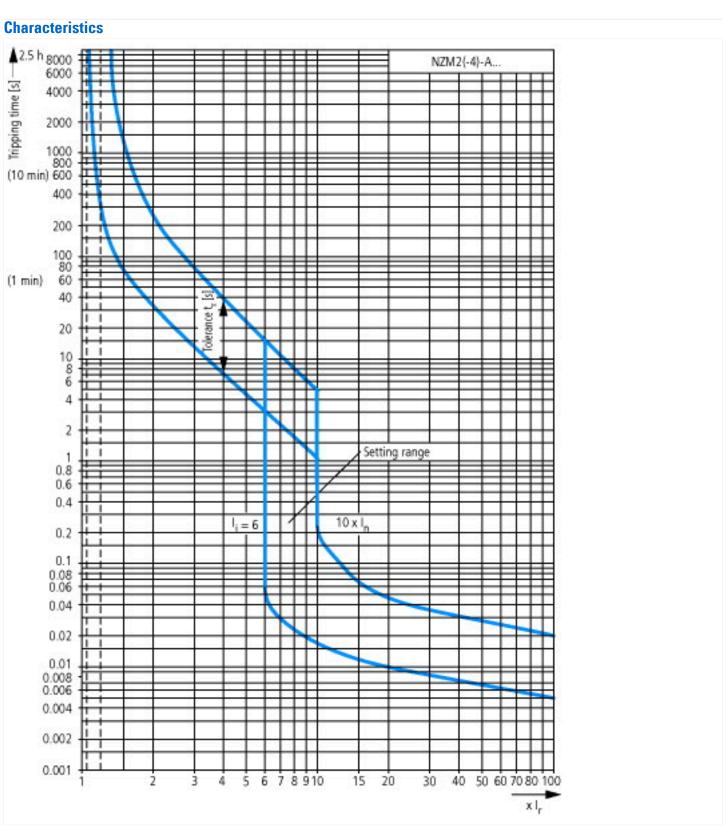
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data 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.

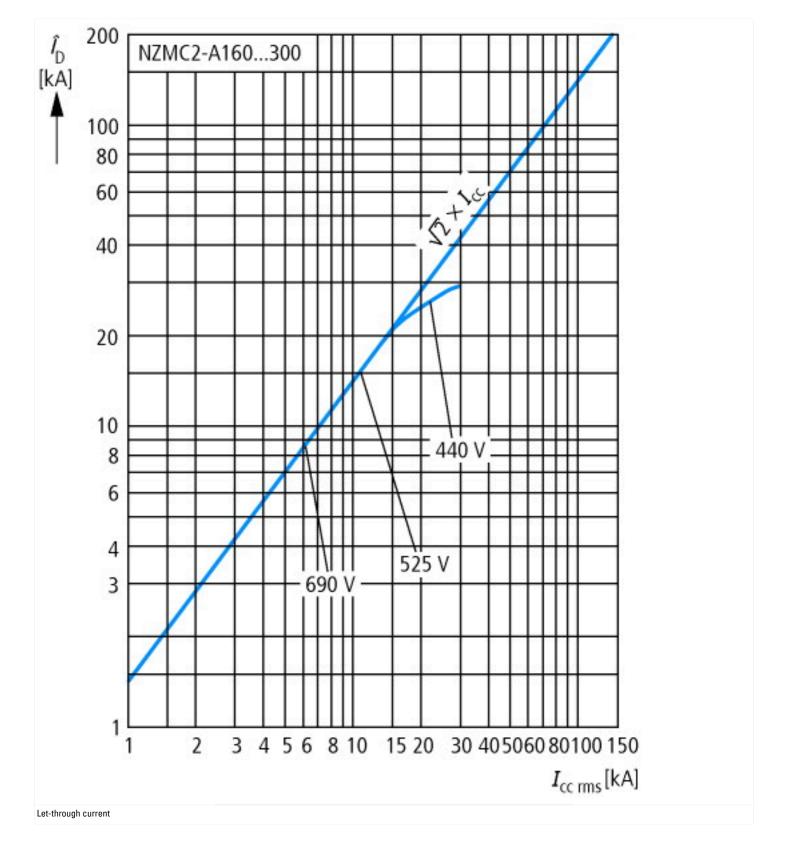
Technical data ETIM 7.0

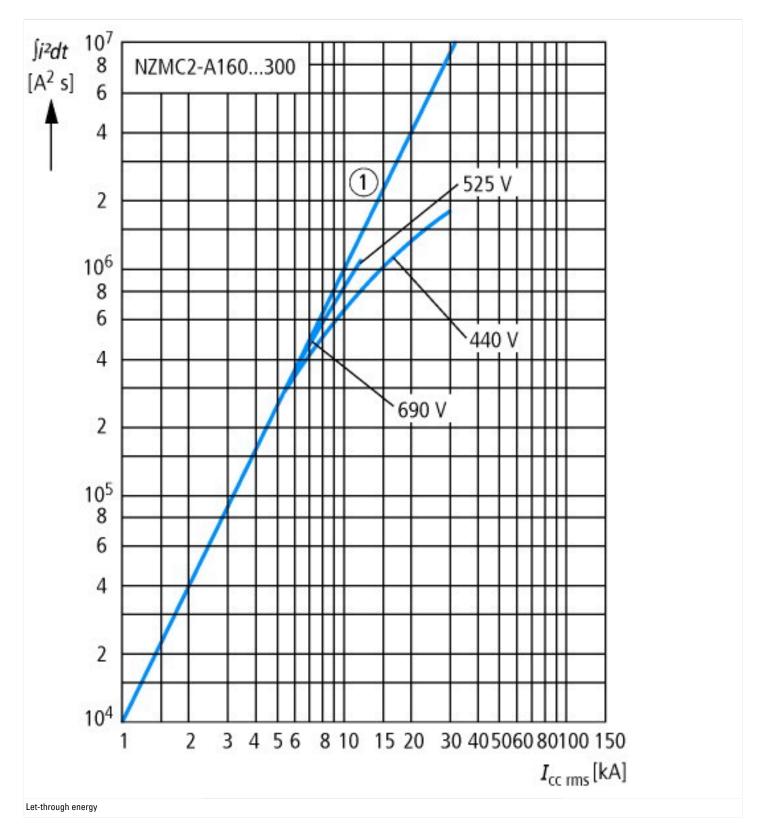
Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (pc)@ss10.01-27-37-04-09 [A.17716013])

Rated parament current lu A 125 Rated voltage 90 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 690 - 6	protection (ecl@ss10.0.1-27-37-04-09 [AJZ716013])		
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz kA 36 Overload release current setting A 100 - 125 Adjustment range short-term delayed short-circuit release A 0 - 0 Adjustment range undelayed short-circuit release A 750 - 1250 Integrated earth fault protection B No Type of electrical connection of main circuit Built-in device fixed built-in technique Device construction Built-in device fixed built-in technique Suitable for DIN rail (top hat rail) mounting No Number of auxiliary contacts as normally closed contact Yes 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 S Type of control element S Complete device with protection unit S Motor drive integrated No Motor drive potional S Forth side No No No Complete device with protect	Rated permanent current lu	Α	125
Overload release current setting A 100 - 125 Adjustment range short-term delayed short-circuit release A 0 - 0 Adjustment range undelayed short-circuit release A 750 - 1250 Integrated earth fault protection No No Type of electrical connection of main circuit Frame clamp Built-in device fixed built-in technique Device construction No No Suitable for DIN rail (top hat rail) mounting No Yes Number of auxiliary contacts as normally closed contact Yes 0 Number of auxiliary contacts as change-over contact 0 0 With switched-off indicator No No With under voltage release No No Number of poles 3 No 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 potional Yes	Rated voltage	V	690 - 690
Adjustment range short-term delayed short-circuit release Adjustment range undelayed short-circuit release Adjustment range undelayed short-circuit release Integrated earth fault protection Integrated earth fault protection of main circuit Type of electrical connection of main circuit Device construction Built-in device fixed built-in technique Built-in device fixed built-in technique No 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 switched-off indicator With under voltage release Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated No Otor drive integrated No Vertage release No	Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	36
Adjustment range undelayed short-circuit release 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 DIN rail (top hat rail) mounting DIN rail (top hat rail mounting DIN rail (top hat rail) mounting DIN rail (top hat rail mounting DIN rail (top hat rail) mounting DIN ra	Overload release current setting	Α	100 - 125
Integrated earth fault protection Type of electrical connection of main circuit Frame clamp Built-in device fixed built-in technique No Costable for DIN rail (top hat rail) mounting Pes Unmber of auxiliary contacts as normally closed contact Combet of auxiliary contacts as normally open contact Unmber of auxiliary contacts as change-over contact Combet of auxiliary contacts as change-over contact Unmber of auxiliary contacts as normally closed contact Unmber of auxi	Adjustment range short-term delayed short-circuit release	Α	0 - 0
Type of electrical connection of main circuit Device construction Device construction Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional No 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 No Vith 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 No No No No No No No No No N	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 Number of auxiliary contacts as change-over contact Number of polex No No No No Number of poles No	Integrated earth fault protection		No
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 puxiliary contacts as change-over contact No No Number of poles No No No Number of poles Type of connection for main current circuit Rocker lever Complete device with protection unit Notor drive integrated No No No Notor drive optional	Type of electrical connection of main circuit		Frame clamp
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 With switched-off indicator No With under voltage release No Number of poles Socition of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional Yes Yes Yes	Device construction		Built-in device fixed built-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 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 Motor drive optional O O No No No No No No No No	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 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 O O O O O O O O O O O O O	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 No Meter lever No No Meter drive optional	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 No No No N	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 Motor drive optional No Motor drive optional	Number of auxiliary contacts as change-over contact		0
Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive optional 3 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 No Motor drive optional 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