DATASHEET - NZMB2-4-A125



Circuit-breaker, 4p, 125A

Part no.

NZMB2-4-A125 Catalog No. 265847



Similar to illustration

Delivery program			
Installation type			Fixed
Description			Set value in neutral conductor is synchronous with set value Ir of main pole.
Standard equipment			Screw connection
Switching capacity			
400/415 V 50 Hz	l _{cu}	kA	25
Rated current = rated uninterrupted current			
Rated current = rated uninterrupted current	$I_n = I_u$	Α	125
Neutral conductor	% of phase conductor	%	100
Setting range			
Overload trip			
¢.	l _r	A	100 - 125
Main pole	I _r	A	100 - 125
Short-circuit releases			
Non-delayed	l _i = l _n x		6 - 10
Short-circuit releases	I _{rm}	A	750 - 1250

Technical data General

		IEC/EN 60947		
		Finger and back of hand proof to VDE 0106 Part 100		
		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30		
	°C	- 40 - + 70		
	°C	-25 - +70		
	V AC	500		
	V AC	300		
$I_n = I_u$	А	125		
	V	≦ 440		
Switching capacity				
I _{cn}				
lcu	kA			
l _{cu}	kA	25		
	I _{cn}	°C VAC VAC VAC In = Iu A V Icn Icu KA		

Record production of the second sec	Terminal capacity			
Bakemini Bakemini Sind Sind Sind Sind Turbus Sind Sind Sind Sind Sind Sind Sind Sind Sind Sind Sind Batemail and rear-site contexton Sind Sind Sind	Standard equipment			Screw connection
Said Noted Standad <	Round copper conductor			
Sranded 2 (2 - 16) Turnet torminal contension 2 (2 - 5 - 16) Sranded 2 (2 - 5 - 16) Sranded 2 (2 - 5 - 16) Bolt trainal and reas-side contention 1 (25 - 18) Sranded 2 (2 - 5 - 16) Sranded 2 (2 - 5 - 16) Strained contention 1 (25 - 18) Stranded 2 (2 - 18) St	Box terminal			
Tunad torminal Standad	Solid		mm ²	
SaidInformationInformationInformationInformationBottomisation careation controlInformationInformationSaidInformationInformat	Stranded		mm ²	1 x (25 - 185) 2 x (25 - 70)
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I-holeImage: Balancian (Section	Solid		mm ²	1 x 16
bitterminal and rear-side connection Image: side connection Direct on the switch Image: side connection Image: side connection Solid Image: side connection Image: side connection Image: side connection A circular conductor Image: side connection Image: side connection Image: side connection Standed Image: side connection Image: side connection Image: side connection Bitterminal and rear-side connection Image: side connection Image: side connection Standed Image: side connection Image: side connection Bitterminal and rear-side connection Image: side connection Image: side connection Standed Image: side connection Image: side connection Image: side connection Standed Image: side connection Image: side connection Image: side connection Standed Image: side connection Image: side connection Image: side connection Standed Image: side connection Image: side connection Image: side connection Standed Image: side connection Image: side connection Image: side connection Standed connection </td <td>Stranded</td> <td></td> <td></td> <td></td>	Stranded			
Direct on the switchImage: space of the switchImage:	1-hole		mm ²	1 x (25 - 185)
Sid n<	Bolt terminal and rear-side connection			
kin kin kin kin Standed kin kin kin Tune terminal mail kin kin Standed mail kin kin Bolterminal and rear-side connection main kin kin Standed main kin kin	Direct on the switch			
kircular conductor kircular conductor kircular conductor funde terminal mathematical state Solid mathematical state Stranded mathematical state Stranded mathematical state Direct on the switch mathematical state Solid mathematical state Stranded mathematical state Solid mathematical state Solid state mathematical state Solid state mathem	Solid		mm ²	1 x (4 - 16) 2 x (4 - 16)
Tunnel terminal Image Image Image Solid Image Image Image Stranded Image Image Image Bolterminal and rear-side connection Image Image Image Solid Image Image Image Stranded Image Image Image Stranded Image Image Image Solid Image Image Image Stranded Image Image Image Image Image Image Image Stranded Image Image Image Image Image Image Image Image Image Image Image Image Image Image	Stranded		mm ²	
Solid Image: Part of the second s	Al circular conductor			
Stranded Image: Stranded </td <td>Tunnel terminal</td> <td></td> <td></td> <td></td>	Tunnel terminal			
Stranded max M	Solid		mm ²	1 x 16
Botterminal and rear-side connection Market Bitterminal and rear-side connection Market Bitterminal Market Bitterminal Market Bitterminal Market Bitterminal and rear-side connection Market Bitterminal and rear-side connecticon Market Bitterminal and rear-si	Stranded			
Direct on the switch Max X10-16) Solid Max X10-16) Stranded Max X10-25-50) Stranded Max X25-50) Custrip (number of segments x width x segment thickness) Max X25-50) Box terminal Max X25-50) Custrip (number of segments x width x segment thickness) Max X25-50) Box terminal Max X25-50) Stranded Max X25-50) Stranded Max X25-50) Box terminal Max X25-50) Stranded Max X25-50 Stranded Max	Stranded		mm ²	1 x (25 - 185)
Solid nn² x(10 · 16) Stranded mn² x(20 · 16) Stranded mn² 1x (25 · 50) Box terminal mn² 1x (25 · 50) Box terminal and rear-side connection ma² ma² Box terminal and rear-side connection ma² ma² <	Bolt terminal and rear-side connection			
Stranded 2x (10 - 16) Stranded mm2 1x (25 - 50) Cu strip (number of segments xwidth x segment thickness) mm2 1x (25 - 50) Box terminal mm2 1x (25 - 50) Box terminal mera-side connection mm2 1x (15 x (30 - 10) Flat copper strip, with holes max mm2 1x (16 x (30 - 10) Box terminal and rear-side connection max mm2 1x (16 x (30 - 10) Box terminal and rear-side connection mm2 1x (16 x (30 - 10) Box terminal and rear-side connection mm2 1x (16 x (30 - 10) Box terminal and rear-side connection mm2 1x (16 x (30 - 10) Box terminal and rear-side connection mm2 1x (16 x (30 - 10) Box terminal and rear-side connection mm2 1x (16 x (30 - 10)	Direct on the switch			
	Solid		mm ²	
Box terminal init. max max 2 × 9 × 0.8 init. max. max 10 × 16 × 0.8 Bot terminal and rear-side connection min. max 2 × 16 × 0.8 Flat copper strip, with holes min. max max Flat copper strip, with holes max. max 10 × 16 × 0.8 Copper busbar (width x thickness) max max 10 × 16 × 0.8 Bot terminal and rear-side connection max max 10 × 16 × 0.8 Screw connection max max max 10 × 16 × 0.8 Direct on the switch max max max 10 × 16 × 0.8 Control cables min. max max 10 × 16 × 0.8 max min. max max 16 × 5 max min. max 16 × 5 max max max 10 × 5	Stranded		mm ²	
nin min max max </td <td>Cu strip (number of segments x width x segment thickness)</td> <td></td> <td></td> <td></td>	Cu strip (number of segments x width x segment thickness)			
index max max max index in	Box terminal			
Bolt terminal and rear-side connection nin. nm 2x16x0.8 Flat copper strip, with holes nax. nm 0x16x0.8 Flat copper strip, with holes nm 0x16x0.8 Copper busbar (width x thickness) nm 1x0.16x0.8 Bolt terminal and rear-side connection nm 1x0.16x0.8 Screw connection nm Ma Direct on the switch nin. nm for the switch nm 1x0.75-25)		min.	mm	2 x 9 x 0.8
Flat copper strip, with holes min. mm 2x 16 x 0.8 Flat copper strip, with holes max. mm 10x 16 x 0.8 Copper busbar (width x thickness) mm 10x 16 x 0.8 Bolt terminal and rear-side connection mm Mm Mm Screw connection min. MM MM Direct on the switch min. mm 16x 5 Control cables max. mm 16x 5 Image: Max mark mm 12x 5		max.	mm	10 x 16 x 0.8
Flat copper strip, with holes max. mm 10 × 16 × 0.8 Copper busbar (width x thickness) mm 10 × 16 × 0.8 Bolt terminal and rear-side connection mm MM Screw connection I MM Direct on the switch I MM Low connection min. MM Max. mm 16 × 5 Control cables max. mm mm I 12 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×	Bolt terminal and rear-side connection			
Copper busbar (width x thickness) mm index M8 Screw connection min. mm index index <td>Flat copper strip, with holes</td> <td>min.</td> <td>mm</td> <td>2 x 16 x 0.8</td>	Flat copper strip, with holes	min.	mm	2 x 16 x 0.8
Bolt terminal and rear-side connection Image: Screw connection Image: Screw connection M8 Direct on the switch min. mm 16 × 5 Image: Screw connection max. mm 20 × 5 Control cables mm2 1 × (0.75 - 2.5)	Flat copper strip, with holes	max.	mm	10 x 16 x 0.8
Screw connection M8 Direct on the switch min. mm Control cables max. mm mm2 1 x (0.75 - 2.5)	Copper busbar (width x thickness)	mm		
Direct on the switch init mm min. mm 16 x 5 max. mm 20 x 5 Control cables mm2 1 x (0.75 - 2.5)	Bolt terminal and rear-side connection			
min. mm 16 x 5 max. mm 20 x 5 control cables mm ² 1 x (0.75 - 2.5)	Screw connection			M8
max. mm 20 x 5 Control cables mm 1 x (0.75 - 2.5)	Direct on the switch			
Control cables 1 x (0.75 - 2.5)		min.	mm	16 x 5
mm ² 1 x (0.75 - 2.5)		max.	mm	20 × 5
mm ² 1 x (0.75 - 2.5) 2 x (0.75 - 1.5)	Control cables			
			mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 1.5)

Design verification as per IEC/EN 61439

Technical data for design verification			
Equipment heat dissipation, current-dependent	P _{vid}	W	27.61
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.

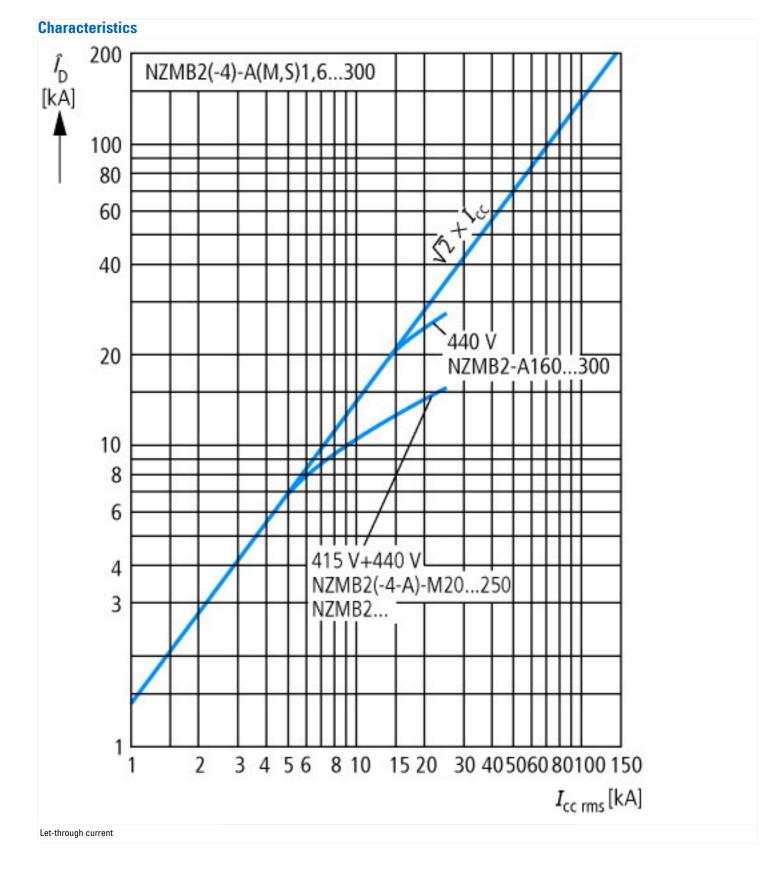
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product 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.

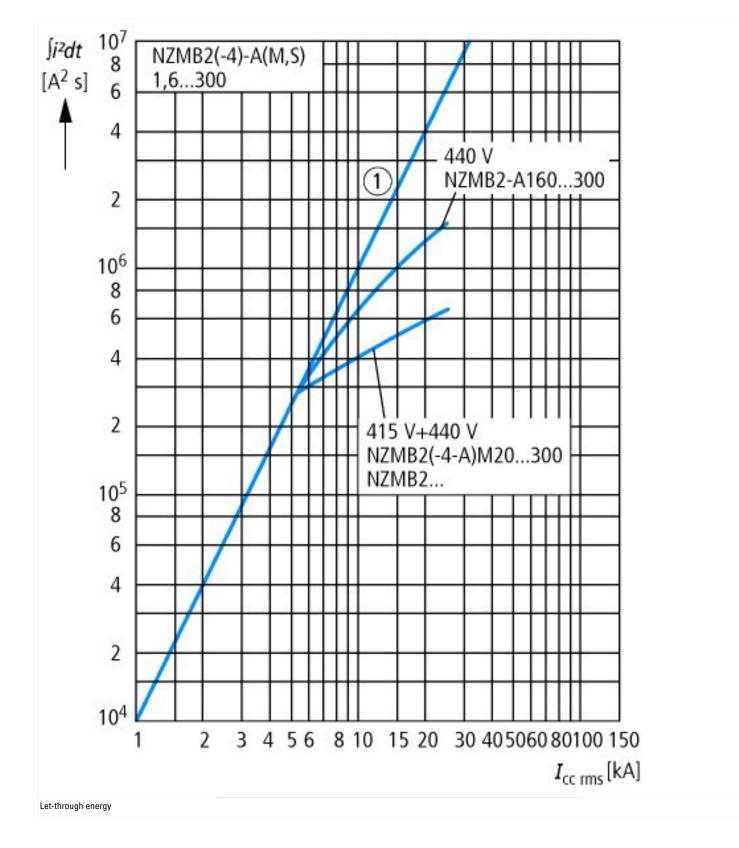
Technical data ETIM 7.0

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

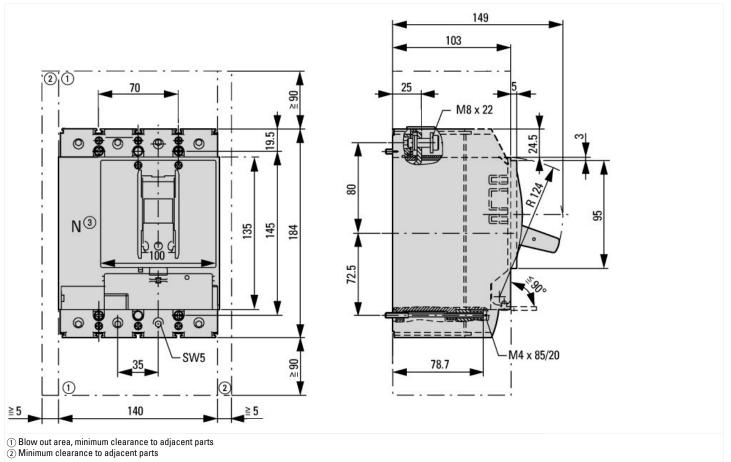
Rated permanent current lu	А	125
Rated voltage	V	440 - 440
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	25
Overload release current setting	А	100 - 125
Adjustment range short-term delayed short-circuit release	А	0 - 0
Adjustment range undelayed short-circuit release	А	6 - 10
Integrated earth fault protection		No
Type of electrical connection of main circuit		Screw connection
Device construction		Built-in device fixed built-in technique
Suitable for DIN rail (top hat rail) mounting		No
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
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

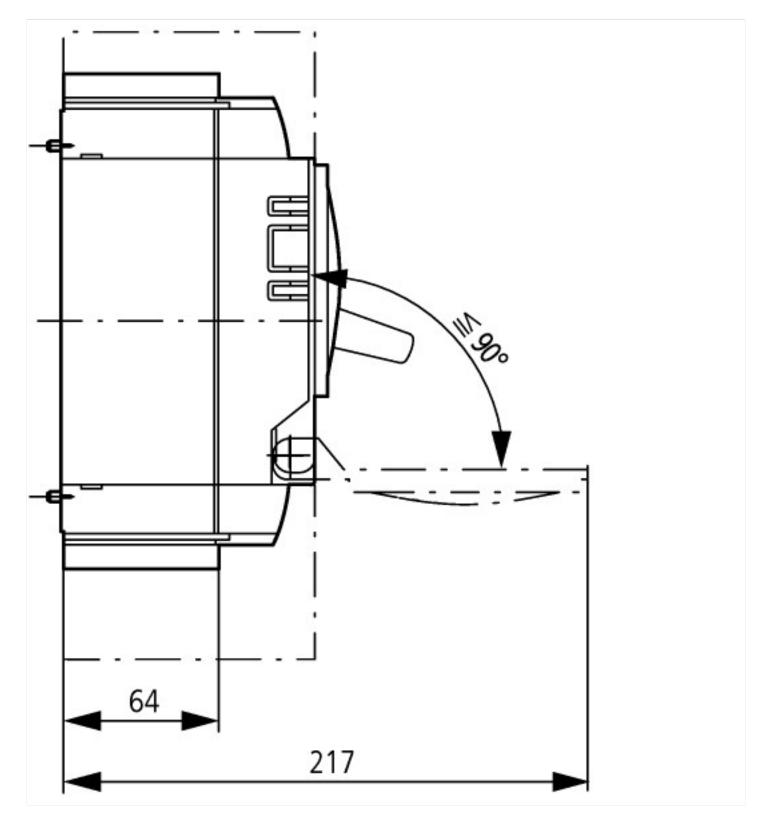




09/15/2021







Additional product information (links)

additional technical information for NZM power switch

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