

Type: **PN2-250**
 Article No.: **266007**



Ordering information

Description			Terminal screws standard, terminals as accessories
Rated current = rated uninterrupted current	I_u	A	250
Short-circuit protection max. fuse gL-characteristic		A gL	250
Number of conductors			3-pole

Notes concerning the product group

Notes for terminals → 260042

Notes concerning the product group

Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113

Isolating characteristics to IEC/EN 60947-3 and VDE 0660

Protection against accidental contact according to IEC 100

With the switch-disconnector N additional voltage releases NZM...-XU, NZM...-XA and trip-indicating auxiliary contacts (HIA) can be used.

N2..., N3... and N4... can also be combined with the NZM...-XR... remote operator.

Switch-disconnectors

Rated impulse withstand voltage U_{imp}			
Main contacts		V	8000
Auxiliary contacts		V	6000
Rated operational voltage	U_e	V AC	690
Rated uninterrupted current max.			
IEC/EN 61131-3	I_u	A	250
Technical data, divergent from the products for the IEC market UL489, CSA 22.2 No. 5.1	I_u	A	160
Overtoltage category/pollution degree			III/3
Rated insulation voltage	U_i	V AC	1000
Switching capacity			
Rated short-circuit making capacity	I_{cm}	kA	5,5
Rated short-time withstand current			
t = 0.3 s	I_{cw}	kA	3,5
t = 1 s	I_{cw}	kA	3,5
Rated conditional short-circuit current			
With back-up fuse		A gG/gL	250
400/415 V		kA	100
690 V		kA	100
With downstream fuse		A gG/gL	250
400/415 V		kA	100
690 V		kA	100
Lifespan, mechanical	Operations		20000
Maximum operating frequency		Ops./h	120
Lifespan, electrical to IEC/EN 60947-4-1 section B			
AC-1			
400/415 V	Operations		10000
690 V	Operations		7500
AC-3			
400/415 V	Operations		7500
690 V	Operations		5000
Current heat loss per pole at I_u		W	16
Terminal capacities			
Round copper conductor			

Box terminal			
Solid		mm ²	1 × (4 – 16) 2 × (4 – 16)
Stranded		mm ²	1 × (25 – 185) 2 × (25 – 70)
Tunnel terminal			
Solid		mm ²	1 × (16 – 185)
Stranded			
Stranded		mm ²	1 × (25 – 185)
Bolt terminal and rear-side connection			
Direct on the switch			
Solid		mm ²	1 × (4 – 16) 2 × (4 – 16)
Stranded		mm ²	1 × (25 – 185) 2 × (25 – 70)
Al conductors, Cu cable			
Box terminal			
Solid		mm ²	1 × (16 – 185)
Tunnel terminal			
Solid		mm ²	1 × 16
Stranded			
Stranded		mm ²	1 × (25 – 185) je nach Kabelhersteller bis zu 240 mm ² anschließbar
Bolt terminal and rear-side connection			
Direct on the switch			
Solid		mm ²	1 × (10 – 16) 2 × (10 – 16)
Stranded		mm ²	1 × (25 – 50) 2 × (25 – 50)
Cu strip (number of segments x width x segment thickness)			
Box terminal			
	min.	mm ²	2 × 9 × 0.8
	max.	mm ²	10 × 16 × 0.8
Bolt terminal and rear-side connection			
Flat copper strip, with holes	min.	mm	2 × 16 × 0.8
Flat copper strip, with holes	max.	mm	10 × 16 × 0.8
Copper busbar (width × thickness)			

Bolt terminal and rear-side connection			
Screw connection			M8
Direct on the switch			
	min.	mm ²	16 × 5
	max.	mm ²	20 × 5
Control cables			
		mm ²	1 × (0.75 – 2.5) 2 × (0.75 – 1.5)
Dimensions			
			Clearance from conductive parts 35 mm, laterally 5 mm
Notes			
			The rated short-time withstand current with PN2/N2 in conjunction with residual-current releases NZM2-4-XFI... $I_{cw} = 1.5 \text{ kA}$ The current heat loss per pole ratings refer to the maximum current rating of the frame size. With lifespan, electrical AC-3 PN2/N2 the following applies: 690 V: max. 160 kW

Overview

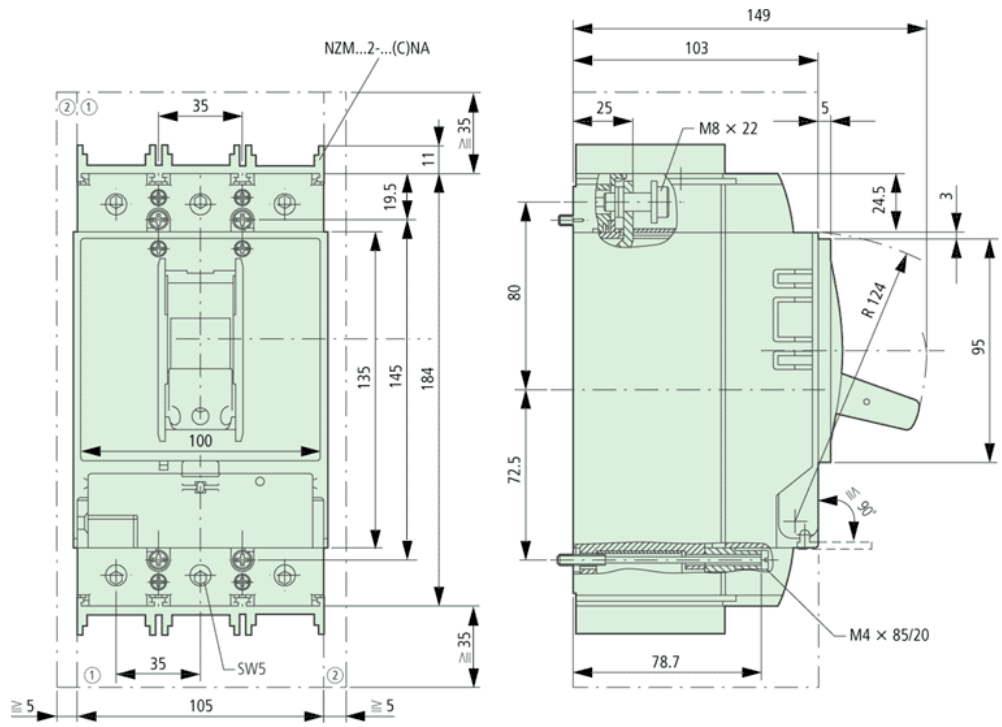
Basic equipment

Box terminal	● - - -
Screw connection	- ● ● ●

Accessories

Box terminal	- ● ● -
Screw connection	● - - ●
Tunnel terminal	● ● ● ●
Connection on rear	● ● ● ●
Flat conductor terminal	- - - ●

Dimensions



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