

Type: **PN2-250**

Article No.: **266007**

Sales text **Switch-disconnector 3p 250A**



### Ordering information

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

### Notes concerning the product group

Notes for terminals 262240

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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
<b>Technical data, divergent from the products for the IEC market</b> UL489, CSA 22.2 No. 5.1	$I_u$	A	160 (N2)
Overvoltage category/pollution degree			III/3
Rated insulation voltage	$U_i$	V AC	690
For use in IT electrical power networks		V	690

## 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	PN2(N2)-160...250: 250
400 ... 415 V		kA	100
690 V		kA	80
With downstream fuse		A gG/gL	PN2(N2)-160...250: 250
400 ... 415 V		kA	100
690 V		kA	80
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			
690 V	Operations		5000

Current heat loss per pole at $I_U$		W	16
<b>Terminal capacities</b>			
Round copper conductor			
Box terminal			
Solid		mm <sup>2</sup>	1 × (4 – 16) 2 × (4 – 16)
Stranded		mm <sup>2</sup>	1 × (25 – 185) 2 × (25 – 70)
Tunnel terminal			
Solid		mm <sup>2</sup>	1 × 16
Stranded			
Stranded		mm <sup>2</sup>	1 × (25 – 185)
Bolt terminal and rear-side connection			
Direct on the switch			
Solid		mm <sup>2</sup>	1 × (4 – 16) 2 × (4 – 16)
Stranded		mm <sup>2</sup>	1 × (25 – 185) 2 × (25 – 70)
Al conductors, Cu cable			
Box terminal			
Solid		mm <sup>2</sup>	1 × (16 – 185)
Tunnel terminal			
Solid		mm <sup>2</sup>	1 × 16
Stranded			
Stranded		mm <sup>2</sup>	1 × (25 – 185) je nach Kabelhersteller bis zu 240 mm <sup>2</sup> anschließbar
Bolt terminal and rear-side connection			
Direct on the switch			
Solid		mm <sup>2</sup>	1 × (10 – 16) 2 × (10 – 16)
Stranded		mm <sup>2</sup>	1 × (25 – 50) 2 × (25 – 50)
Cu strip (number of segments x width x segment thickness)			
Box terminal			
	min.	mm <sup>2</sup>	2 × 9 × 0.8
	max.	mm <sup>2</sup>	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 <sup>2</sup>	16 × 5
	max.	mm <sup>2</sup>	20 × 5
Control cables			
		mm <sup>2</sup>	1 × (0.75 – 2.5) 2 × (0.75 – 1.5)

## Notes

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The rated short time withstand current for PN2/N2 in conjunction with residual-current release NZM2-4-XFI...  $I_{cw} = 1.5 \text{ kA}$   
For current heat loss per pole the specification refers to the maximum nominal current of the frame size.  
For the electrical life at AC-3 for PN2/N2 the following applies: 690 V: max. 160 kW  
For 3-pole switch-disconnectors the following applies: 400/415 V 7500 switching operations; 690 V 5000 switching operations  
For 3-pole switch-disconnectors the following applies: 400/415 V 6000 switching operations; 690 V 4000 switching operations

## Overview

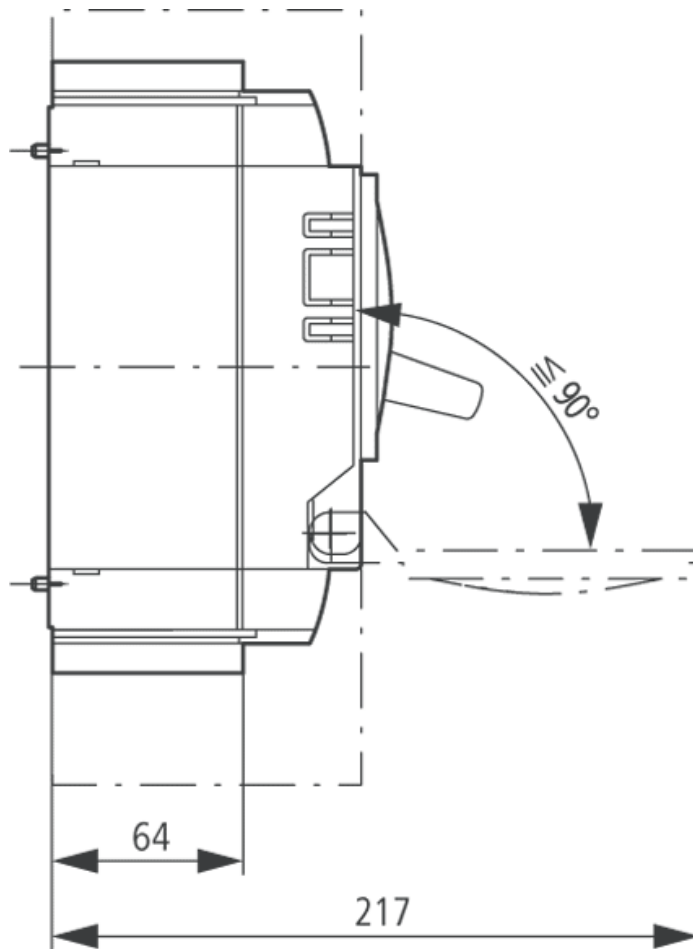
### Basic equipment

Box terminal           ● – – –  
Screw connection   – ● ● ●

### Accessories

Box terminal           – ● ● –  
Screw connection   ● – – ●





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