



## Switch-disconnector 3p 125A



Powering Business Worldwide™

Part no.  
Article no.

**N1-125**  
**259145**

### Delivery programme

Product range			Switch-disconnectors
Protective function			Disconnectors/main switches
Standard/Approval			IEC
Installation type			Fixed
Construction size			N1
Description			Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113. Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Busbar tag shroud to VDE 0160 Part 100.
Number of conductors			3 pole
Standard equipment			Box terminal
Switch positions			I, +, 0
Rated current = rated uninterrupted current	$I_n = I_u$	A	125
Short-circuit protection max. fuse gL-characteristic		A gL	125

### Switch-disconnectors

Rated surge voltage invariability	$U_{imp}$		
Main contacts		V	6000
Auxiliary contacts		V	6000
Rated operational voltage	$U_e$	V AC	690
Rated current = rated uninterrupted current	$I_n = I_u$	A	125
Rated uninterrupted current	$I_u$	A	
IEC/EN 61131-3	$I_u$	A	160
Overvoltage category/pollution degree			III/3
Rated insulation voltage	$U_i$	V	690
Use in unearthed supply systems		V	$\leq 690$
			Rated operating voltage: 40-60 Hz
Other technical data (sheet catalogue)			Weight Temperature dependency, Derating Effective power loss

### Rated short-circuit making capacity

690 V 50/60 H	$I_c$	kA	2.8
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### Rated short-time withstand current

t = 0.3 s	$I_{cw}$	kA	2
t = 1 s	$I_{cw}$	kA	2

### Rated conditional short-circuit current

With back-up fuse		A gG/ gL	PN1(N1)-63...125: 125 PN1(N1)-160: 160
400 ... 415 V		kA	100
690 V		kA	80
With downstream fuse		A gG/ gL	PN1(N1)-63...125: 125 PN1(N1)-160: 160
400 ... 415 V		kA	100
690 V		kA	10

### Rated making and breaking capacity

Rated operational current	$I_e$	A	
415 V	$I_e$	A	160

690 V	I <sub>e</sub>	A	160
415 V	I <sub>e</sub>	A	160
690 V	I <sub>e</sub>	A	160
Lifespan, mechanical	Operations		20000
Max. operating frequency		Ops/h	120

### Lifespan, electrical

400 V V 50/60 Hz	Operations		10000
415 V V 50/60 Hz	Operations		10000
690 V 50/60 Hz	Operations		7500
400 V 50/60 Hz	Operations		7500
415 V 50/60 Hz	Operations		7500
690 V 50/60 Hz	Operations		5000
			For current heat loss per pole the specification refers to the maximum rated operational current of the frame size.
Current heat losses per pole at I <sub>U</sub> are based on the maximum rated operational current of the frame size.		W	12.7
			For current heat loss per pole the specification refers to the maximum rated operational current of the frame size.
Total downtime in a short-circuit		ms	< 10

### Terminal capacity

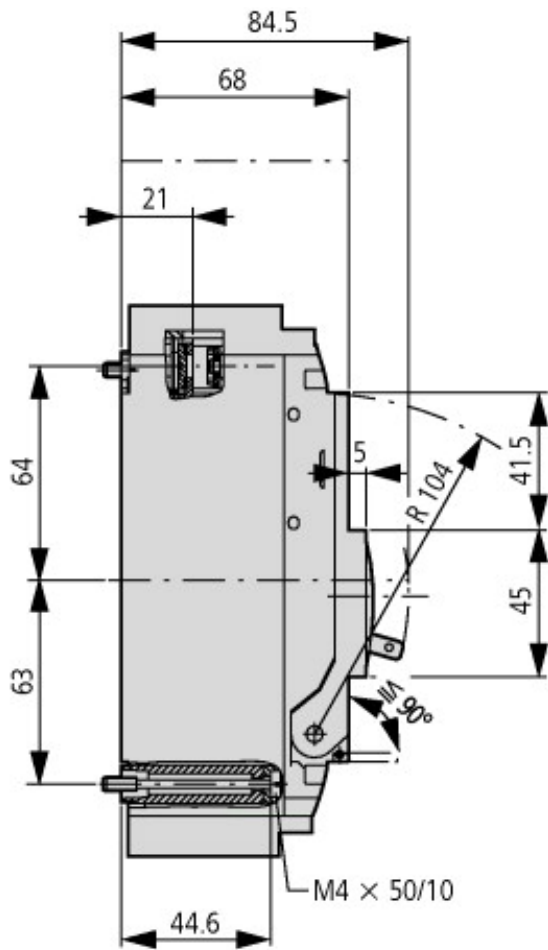
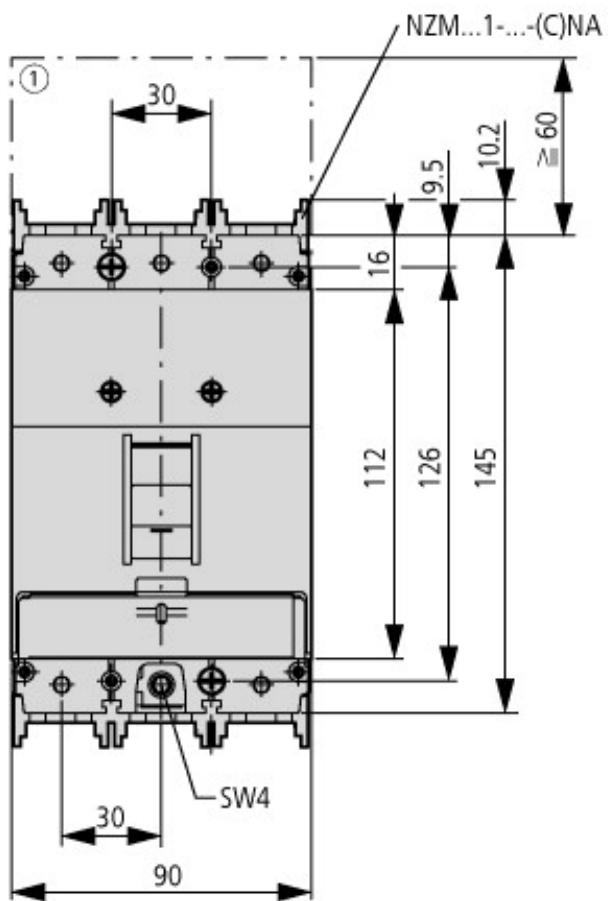
Standard equipment			Box terminal
Overview			<p>Basic equipment</p> <p>Box terminal ● - - -</p> <p>Screw connection - ● ● ●</p> <p>Accessories</p> <p>Box terminal - ● ● -</p> <p>Screw connection ● - - ●</p> <p>Tunnel terminal ● ● ● ●</p> <p>Connection on rear ● ● ● ●</p> <p>Flat conductor terminal - - - ●</p>
Round copper conductor			
Box terminal			
Solid		mm <sup>2</sup>	1 x (10 - 16) 2 x (6 - 16)
Stranded		mm <sup>2</sup>	1 x (25 - 70) depending on the cable manufacturer up to 95 mm <sup>2</sup> can be connected. 2 x 25
Tunnel terminal			
Solid		mm <sup>2</sup>	1 x 16
Stranded		mm <sup>2</sup>	
Stranded		mm <sup>2</sup>	1 x (25 - 95)
Bolt terminal and rear-side connection			
Direct on the switch			
Solid		mm <sup>2</sup>	1 x (10 - 16) 2 x (6 - 16)
Stranded		mm <sup>2</sup>	1 x (25 - 70) 2 x 25
Al conductors, Cu cable			
Solid		mm <sup>2</sup>	1 x 16
Stranded		mm <sup>2</sup>	
Stranded		mm <sup>2</sup>	1 x (25 - 95)
Cu strip (number of segments x width x segment thickness)			
Box terminal			

	min.	mm <sup>2</sup>	2 x 9 x 0.8
	max.	mm <sup>2</sup>	9 x 9 x 0.8
Copper busbar (width x thickness)	mm		
Bolt terminal and rear-side connection			
Screw connection			M6
Direct on the switch			
	min.	mm <sup>2</sup>	12 x 5
	max.	mm <sup>2</sup>	16 x 5
Control cables			
		mm <sup>2</sup>	1 x (0.75 - 2.5) 2 x (0.75 - 1.5)

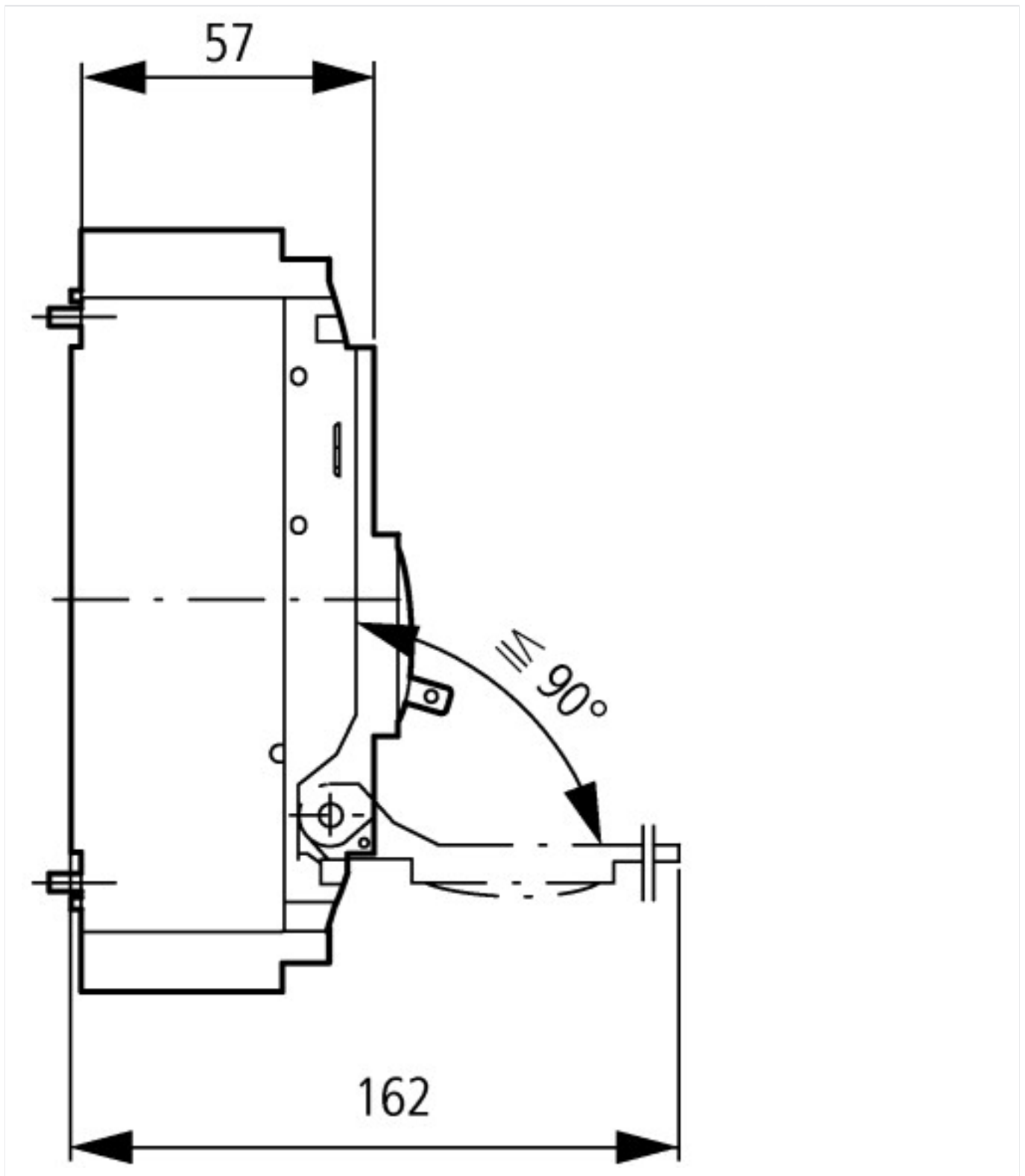
## Technical data ETIM 4.0

Version as switch disconnecter compact			1
Version as main switch			1
Version as maintenance-/service switch			1
Version as safety switch			0
Version as emergency stop installation			1
Max. rated operation voltage U <sub>e</sub> AC		V	690
Rated permanent current I <sub>u</sub>		A	125
Rated operation power AC-3, 400 V		kW	55
Rated operation power at AC-23, 400V		kW	55
Conditioned rated short-circuit current I <sub>q</sub>		kA	100
Number of poles			3
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
Motor drive optional			1
Motor drive integrated			0
Voltage release optional			1
Device construction			Built-in device fixed built-in technique
Suitable for ground mounting			1
Suitable for front mounting			0
Suitable for front mounting center			0
Suitable for distribution board installation			1
Suitable for intermediate mounting			1
Type of control element			Rocker lever
Interlockable			1
Connection type main current circuit			Frame clamp
Degree of protection (IP), front side			IP20

## Dimensions



① Blow out area, minimum clearance to adjacent parts



#### Additional product information (links)

IL01203004Z (AWA1230-1913) Circuit-breaker, Switch-Disconnecter

IL01203004Z (AWA1230-1913) Circuit-breaker, Switch-Disconnecter

[ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL01203004Z2012\\_03.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01203004Z2012_03.pdf)