

Switch-disconnector 4p 63A

Part no. **N1-4-63**

Article no. **266002**

Powering Business Worldwide™

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			4 pole
Standard equipment			Box terminal
Switch positions			I, +, 0
Rated current = rated uninterrupted current	$I_n = I_u$	A	63
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	Ue	V AC	690
Rated current = rated uninterrupted current	$I_n = I_u$	A	63
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	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	Ic	kA	2.8

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_e	A	160

415 V	I_e	A	160
690 V	I_e	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_u 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

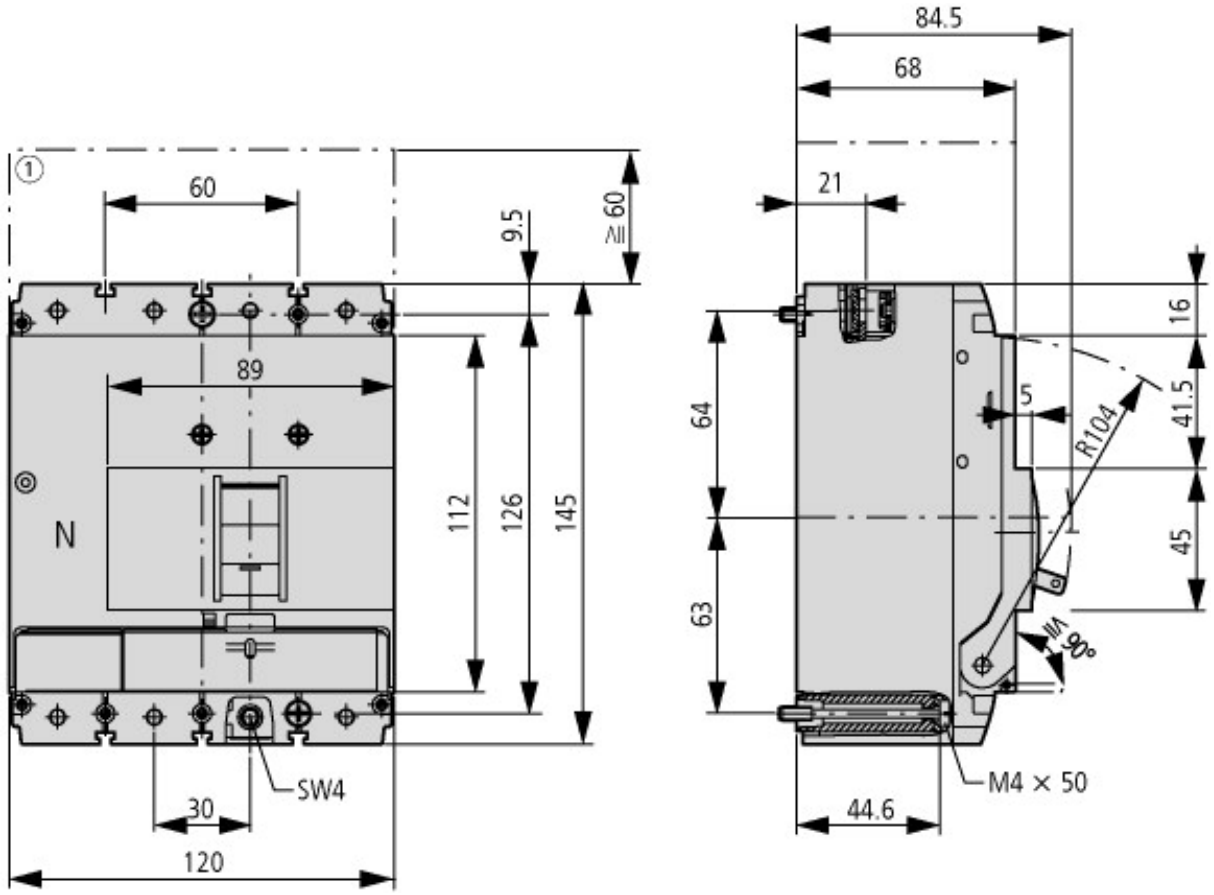
Standard equipment			Box terminal
Overview			Basic equipment Box terminal ● - - - Screw connection - ● ● ● Accessories Box terminal - ● ● - Screw connection ● - - ● Tunnel terminal ● ● ● ● Connection on rear ● ● ● ● Flat conductor terminal - - - ●
Round copper conductor			
Box terminal			
Solid		mm^2	1 x (10 - 16) 2 x (6 - 16)
Stranded		mm^2	1 x (25 - 70) depending on the cable manufacturer up to 95 mm^2 can be connected. 2 x 25
Tunnel terminal			
Solid		mm^2	1 x 16
Stranded		mm^2	
Stranded		mm^2	1 x (25 - 95)
Bolt terminal and rear-side connection			
Direct on the switch			
Solid		mm^2	1 x (10 - 16) 2 x (6 - 16)
Stranded		mm^2	1 x (25 - 70) 2 x 25
Al conductors, Cu cable			
Solid		mm^2	1 x 16
Stranded		mm^2	
Stranded		mm^2	1 x (25 - 95)
Cu strip (number of segments x width x segment thickness)			
Box terminal			
	min.	mm^2	2 x 9 x 0.8

	max.	mm^2	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^2	12 x 5
	max.	mm^2	16 x 5
Control cables			
		mm^2	1 x (0.75 - 2.5) 2 x (0.75 - 1.5)

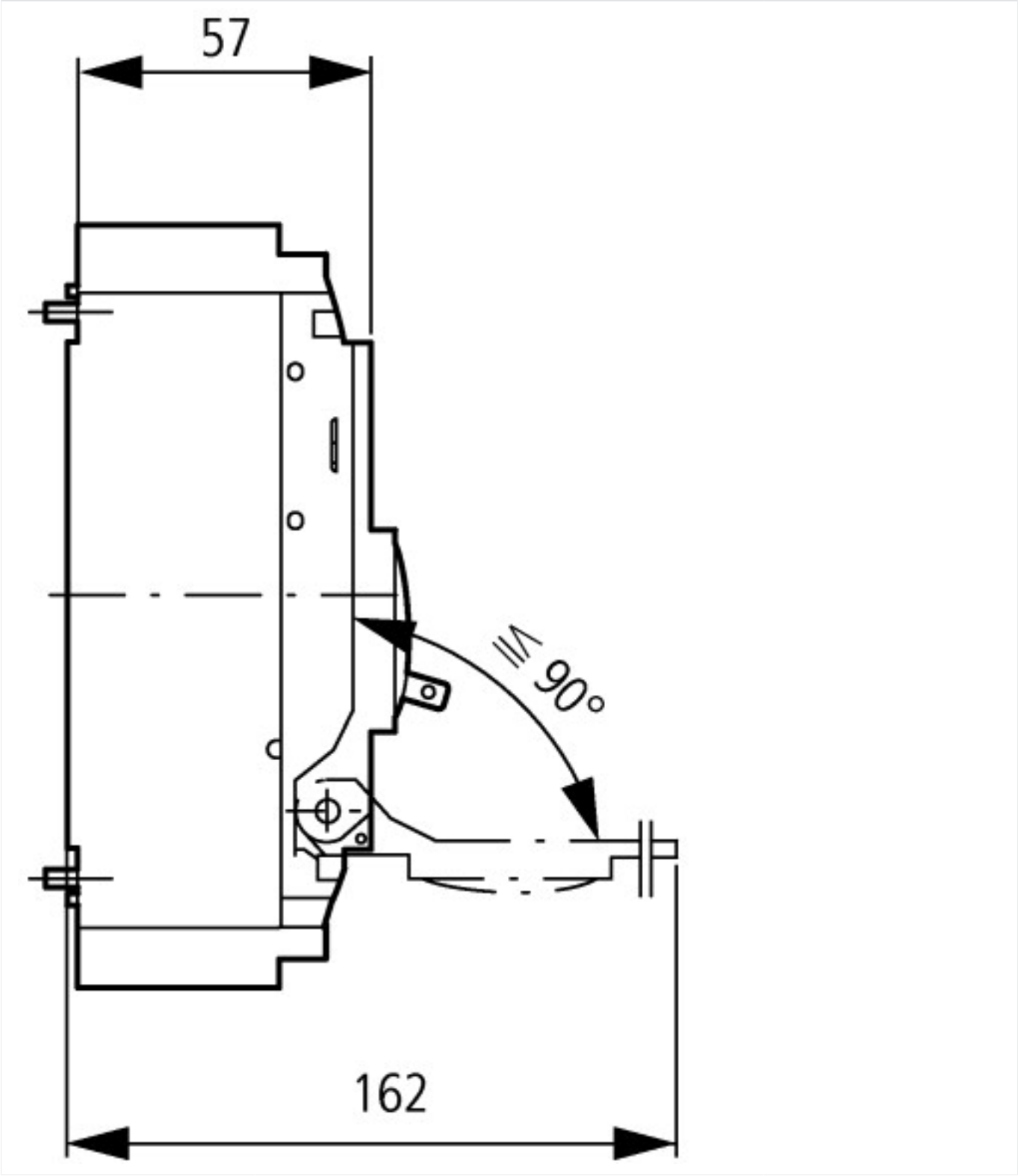
Technical data ETIM 4.0

Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as normally closed contact			0
Rated permanent current Iu		A	63
Number of poles			4
Conditioned rated short-circuit current Iq		kA	100
Degree of protection (IP), front side			IP20
Number of auxiliary contacts as change-over contact			0
Interlockable			YES
Motor drive integrated			No
Connection type main current circuit			Box terminal
Version as emergency stop installation			No
Type of control element			Toggle lever
Version as main switch			No
Version as switch disconnector compact			YES
Version as safety switch			No
Version as maintenance-/service switch			No
Rated operation power at AC-23, 400V		kWh	0
Rated operation power AC-3, 400 V		kWh	0
Suitable for ground mounting			No
Suitable for front mounting			No
Suitable for front mounting center			No
Suitable for distribution board installation			YES
Suitable for intermediate mounting			No
Max. rated operation voltage Ue AC		V	690
Motor drive optional			YES
Voltage release optional			YES
Device construction			Built-in device fixed built-in technique

Dimensions



① Blow out area, minimum clearance to adjacent parts



Additional product information (links)

IL01203004Z (AWA1230-1913) Circuit-breaker, Switch-Disconnector	
IL01203004Z (AWA1230-1913) Circuit-breaker, Switch-Disconnector	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01203004Z2012_03.pdf

© 11/2012 by Eaton Industries GmbH