Switch-disconnector 3p

Powering Business Worldwide[™]

Part no. PN1-63 Article no. 259140

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Range			Switch-disconnectors
Protective function			Disconnectors/main switches
Standard/Approval			IEC
Installation type			Fixed
Construction size			PN1
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			1, 0
Rated current = rated uninterrupted current	$I_n = I_u$	Α	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	$I_n = I_u$	Α	63
Rated uninterrupted current	l _u	Α	
IEC/EN 61131-3	l _u	Α	160
Overvoltage category/pollution degree			III/3
Rated insulation voltage	Ui	V	690
For use in IT electrical power networks		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

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)-63125: 125 PN1(N1)-160: 160
400 415 V	kA	100
690 V	kA	80
With downstream fuse	A gG/ gL	PN1(N1)-63125: 125 PN1(N1)-160: 160
400 415 V	kA	100
690 V	kA	10

Rated making and breaking capacity

3 - 1 - 1			
Rated operational current	I _e	Α	
415 V	l _e	Α	160
690 V	I _e	Α	160
415 V	I _e	Α	160

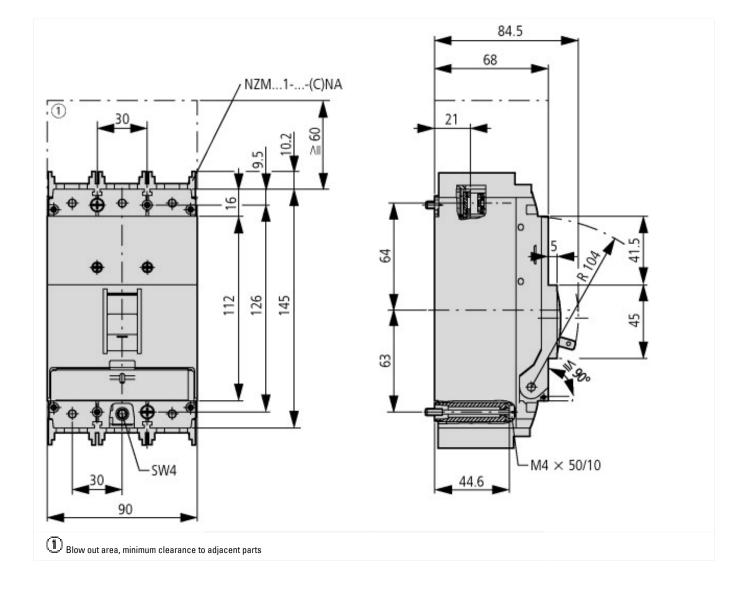
690 V	l _e	Α	160
Lifespan, mechanical	Operations	^	20000
Max. operating frequency	орогинина	Ops/	120
		h	.20
Lifespan, electrical			
400 V V 50/60 Hz	Operations		10000
415 V V 50/60 Hz	Operations		10000
690 V 50/60 Hz	Operations		7500
400 V 50/60 Hz	Operations		7500
415 V 50/60 Hz	Operations		7500
690 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 $\mathbf{I}_{\mathbf{u}}$ 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			Roy terminal
Standard equipment Overview			Box terminal Basic equipment Box
Round copper conductor			Commu
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		2	1 v 16
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		IIIM"	,/
	min.	mm ²	2 x 9 x 0.8
	max.	mm ²	9 × 9 × 0.8
		111111	

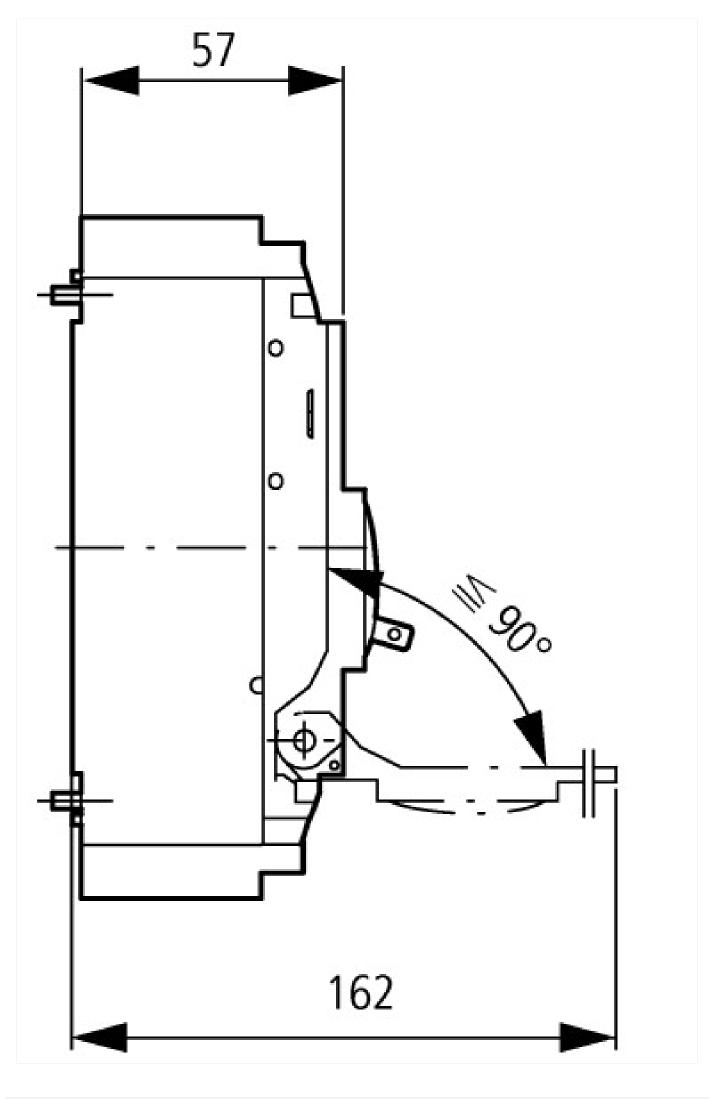
Copper busbar (width x thickness)	mm		
Bolt terminal and rear-side connection			
Screw connection			M6
Direct on the switch			
	min.	mm ²	12 x 5
	max.	mm ²	16 x 5
Control cables			
		mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 1.5)

Technical data according to ETIM 4.0

Number of auxiliary contacts as normally closed contact A 6 Number of auxiliary contacts as normally closed contact A 6 Rated permanent current lu A 6 Number of poles B 7 Conditioned rated short-circuit current lq A 7 Number of auxiliary contacts as change-over contact IP20 Interlockable YES Motor drive integrated YES Connection type main current circuit Box terminal Version as semergency stop installation No Type of control element No Version as switch disconnector compact YES Version as switch disconnector compact YES Version as safety switch No Version as maintenance-/service switch No Rated operation power at AC-23, 400V No Suitable for front mounting No Suitable for front mounting No Suitable for front mounting center No Suitable for intermediate mounting No Max. rated operation voltage Ue AC YES Suitable for intermediate mounting YES Volta
Rated permanent current lu Number of poles Conditioned rated short-circuit current lq Degree of protection (IP), front side Number of auxiliary contacts as change-over contact Interlockable Motor drive integrated Connection type main current circuit Version as emergency stop installation Version as saintswitch Version as saintswitch Version as maintenance-/service switch Rated operation power AC-3, 400V Rated operation power AC-3, 400V Suitable for front mounting Suitable for front mounting Suitable for intermediate mounting Max. rated operation voltage Ue AC Motor drive optional Versional Motor drive optional Motor drive optional Versional Motor drive optional Motor drive optional Version as maintenance-/service switch Motor drive optional Motor drive optional Motor drive optional A Silable for intermediate mounting Motor drive optional Motor drive optiona
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Max. rated operation voltage Ue AC V 690 Motor drive optional YES Voltage release optional YES
Motor drive optional YES Voltage release optional YES
Voltage release optional YES
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Device construction Built-in device fixed built-in technique

Dimensions





Additional product information (links)					
IL01203004Z (IL01203004Z) Circuit-breaker, Switch-Disconnector	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01203004Z2010_11.pdf				
Engineering					
Conversion N12 to N4	ftp://ftp.moeller.net/DOCUMENTATION/PDF/GB/Umbau_N12_auf_N4_G.pdf				