MOELLER

Type: **PN1−100**
Article No.: **259141**



Ordering information			
Description			Terminals standard, terminal screws as accessories
Rated current = rated uninterrupted current	I_u	A	100
Short−circuit protection max. fuse gL−characteristic		A gL	125
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	6000
Auxiliary contacts		V	6000
Rated operational voltage	U_e	V AC	690
Rated uninterrupted current max.			
IEC/EN 61131–3	I_u	A	160
Technical data, divergent from the products for the IEC market UL489, CSA 22.2 No. 5.1	I_u	A	125
Overvoltage category/pollution degree			III/3
Rated insulation voltage	U_i	V AC	690
Switching capacity			
Rated short–circuit making capacity	I_{cm}	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	125 PN1(N1) – 160: 160
400/415 V		kA	100
690 V		kA	100
With downstream fuse		A gG/gL	125 PN1(N1) – 160: 160
400/415 V		kA	100
690 V		kA	10
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	8
Terminal capacities			
Round copper conductor			
Box terminal			

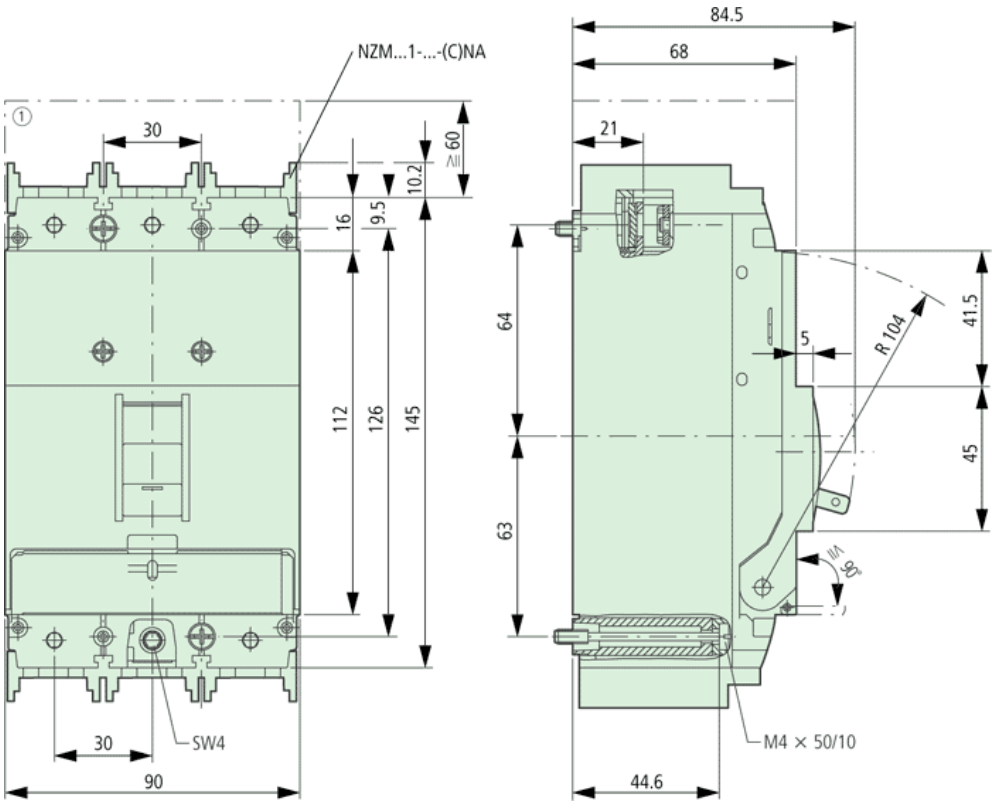
Solid		mm^2	1 × (2.5 – 16) 2 × (2.5 – 16)
Stranded		mm^2	1 × (25 – 70) 2 × 25
Tunnel terminal			
Solid		mm^2	1 × (16 – 95)
Stranded			
Stranded		mm^2	1 × (25 – 95)
Bolt terminal and rear−side connection			
Direct on the switch			
Solid		mm^2	1 × (10 – 16) 2 × (6 – 16)
Stranded		mm^2	1 × (25 – 70) 2 × 25
Al conductors, Cu cable			
Box terminal			
Solid		mm^2	1 × (16 – 95)
Tunnel terminal			
Solid		mm^2	1 × 16
Stranded			
Stranded		mm^2	1 × (25 – 95)
Bolt terminal and rear−side connection			
Direct on the switch			
Solid		mm^2	1 × (10 – 16) 2 × (10 – 16)
Stranded		mm^2	1 × (25 – 35) 2 × (25 – 35)
Cu strip (number of segments x width x segment thickness)			
Box terminal			
	min.	mm^2	2 × 9 × 0.8
	max.	mm^2	9 × 9 × 0.8
Copper busbar (width × thickness)			
Bolt terminal and rear−side connection			
Screw connection			M8
Direct on the switch			
	min.	mm^2	12 × 5
	max.	mm^2	16 × 5

Control cables			
		mm^2	1 × (0.75 – 2.5) 2 × (0.75 – 1.5)
Dimensions			
			Clearance from conductive parts 60 mm
Notes			
			The current heat loss per pole ratings refer to the maximum current rating of the frame size.

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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