MOELLER

Type: **PN2–160**
Article No.: **266005**

Ordering information			
Description			Terminal screws standard, terminals as accessories
Rated current = rated uninterrupted current	I_u	A	160
Short–circuit protection max. fuse gL–characteristic		A gL	250
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	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
Technical data, divergent from the products for the IEC market UL489, CSA 22.2 No. 5.1	I_u	A	160
Overvoltage category/pollution degree			III/3
Rated insulation voltage	U_i	V AC	1000
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	250
400/415 V		kA	100
690 V		kA	100
With downstream fuse		A gG/gL	250
400/415 V		kA	100
690 V		kA	100
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	16
Terminal capacities			
Round copper conductor			

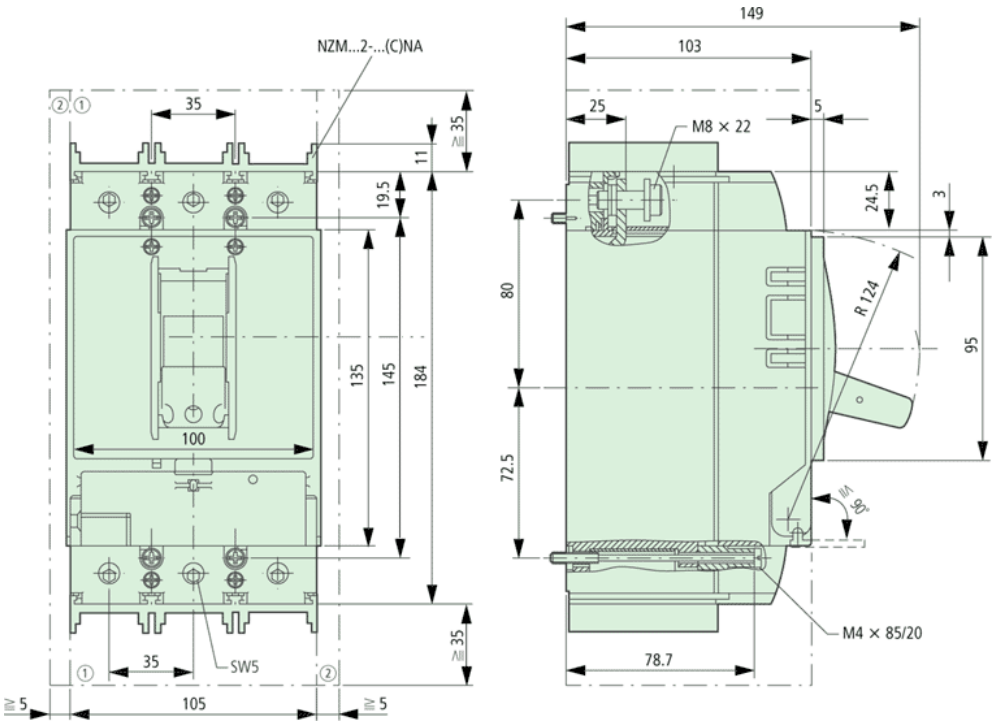
Box terminal			
Solid		mm^2	1 × (4 – 16) 2 × (4 – 16)
Stranded		mm^2	1 × (25 – 185) 2 × (25 – 70)
Tunnel terminal			
Solid		mm^2	1 × (16 – 185)
Stranded			
Stranded		mm^2	1 × (25 – 185)
Bolt terminal and rear−side connection			
Direct on the switch			
Solid		mm^2	1 × (4 – 16) 2 × (4 – 16)
Stranded		mm^2	1 × (25 – 185) 2 × (25 – 70)
Al conductors, Cu cable			
Box terminal			
Solid		mm^2	1 × (16 – 185)
Tunnel terminal			
Solid		mm^2	1 × 16
Stranded			
Stranded		mm^2	1 × (25 – 185) je nach Kabelhersteller bis zu 240 mm^2 anschließbar
Bolt terminal and rear−side connection			
Direct on the switch			
Solid		mm^2	1 × (10 – 16) 2 × (10 – 16)
Stranded		mm^2	1 × (25 – 50) 2 × (25 – 50)
Cu strip (number of segments x width x segment thickness)			
Box terminal			
	min.	mm^2	2 × 9 × 0.8
	max.	mm^2	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^2	16 × 5
	max.	mm^2	20 × 5
Control cables			
		mm^2	1 × (0.75 – 2.5) 2 × (0.75 – 1.5)
Dimensions			
			Clearance from conductive parts 35 mm, laterally 5 mm
Notes			
			The rated short–time withstand current with PN2/N2 in conjunction with residual–current releases NZM2–4–XFI... I_{cw} = 1.5 kA The current heat loss per pole ratings refer to the maximum current rating of the frame size. With lifespan, electrical AC–3 PN2/N2 the following applies: 690 V: max. 160 kW

Overview

Basic equipment				
Box terminal	●	–	–	–
Screw connection	–	●	●	●
Accessories				
Box terminal	–	●	●	–
Screw connection	●	–	–	●
Tunnel terminal	●	●	●	●
Connection on rear	●	●	●	●
Flat conductor terminal	–	–	–	●

Dimensions



Moeller GmbH, Hein–Moeller–Str. 7–11, D–53115 Bonn
E–Mail: catalog@moeller.net, Internet: www.moeller.net, http://catalog.moeller.net