MOELLER

Type: **NZMN3–ME450**
Article No.: **284468**



Ordering information			
Description			Terminal screws standard, terminals as accessories
Rated current = rated uninterrupted current	I_u	A	450
Setting range			
Overload releases	I_r	A	225 – 450
Short–circuit releases Non–delayed		A	450 – 6300
Motor rating AC–3 at 400 V 50/60 Hz	P	kW	250
Rated operational current AC–3 at 400 V 50/60 Hz	I_e	A	437
Switching capacity Switching capacity		kA	50
Release system			Electronic release
Pole			3

Notes concerning the product group

IEC/EN 60947–2 and IEC/EN 60947–4–1

Circuit–breakers fulfil all the demands of utilization category AC–3.

Adjustable overload release I_r

- 0.5 – 1 × I_n (ex–factory0.8 × I_n)

R.m.s. value measurement and “thermal memory”

Adjustable time delay setting to overcome current peaks t_r

- 2 – 20 s with 6 × I_r, as well as infinity (without overload release) (ex–factory 10 s)

Phase–failure sensitivity

Adjustable short–circuit release I_i

- 2 – 14 × I_r (ex–factory 12 × I_r)

For limiter switching capacity with NZML4–ME... the following applies: 85 kA

Notes concerning the product group

Notes for terminals → 262240

General			
Standards			IEC/EN 60947
Protection against direct contact			Finger and back of hand proof to VDE 0106 Part 100
Climatic proofing			Damp heat, constant, according to IEC 60068–2–78 Damp heat, cyclical to IEC 60068–2–30
Safe isolation to VDE 0106 Part 101 and Part 101/A1			
Between auxiliary contacts and main contacts		V AC	500
between the auxiliary contacts		V AC	300
Terminal capacities			
Standard equipment			Screw terminal
Accessories			Box terminal Tunnel terminal Connection on rear
Cu conductors, Cu cable			
Box terminal			
Solid		mm^2	2 × 16
Stranded		mm^2	1 × (35 – 240) 2 × (25 – 120)
Tunnel terminal			
Stranded			
Single hole		mm^2	1 × (25 – 185)
Double hole fitting		mm^2	1 × (50 – 240) 2 × (50 – 240)
Bolt terminal and rear–side connection			

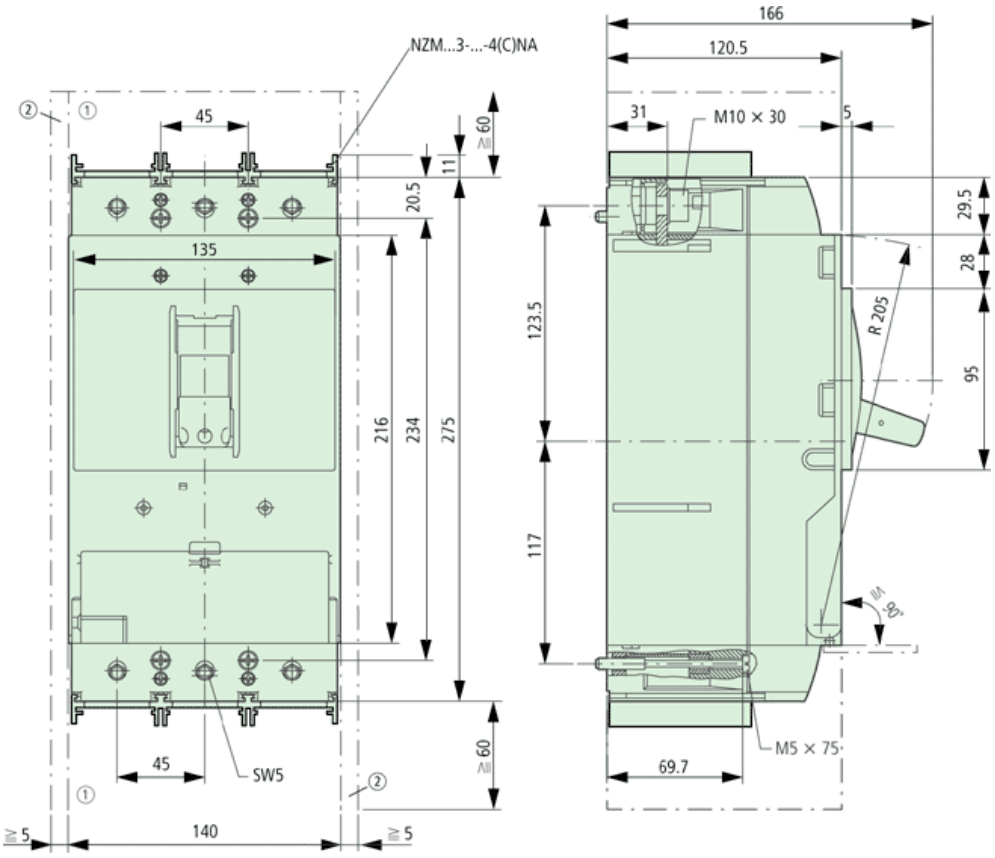
Direct on the switch			
Solid		mm^2	1 × 16 2 × 16
Stranded		mm^2	1 × (25 – 240) 2 × (25 – 240)
Connection width extension		mm^2	2 × 300
Al conductors, Cu cable			
Tunnel terminal			
Solid		mm^2	1 × 16
Stranded			
Single hole		mm^2	1 × (25 – 185) je nach Kabelhersteller bis zu 240 mm² anschließbar
Double hole fitting		mm^2	1 × (50 – 240) 2 × (50 – 240)
Bolt terminal and rear–side connection			
Direct on the switch			
Solid		mm^2	1 × 16 2 × (10 – 16)
Stranded		mm^2	1 × (25 – 120) 2 × (25 – 120)
Cu strip (number of segments x width x segment thickness)			
Box terminal			
	min.	mm^2	6 × 16 × 0.8
	max.	mm^2	10 × 24 × 1.0 + 5 × 24 × 1.0 (2 ×) 8 × 24 × 1.0
Bolt terminal and rear–side connection			
Flat copper strip, with holes	min.	mm	6 × 16 × 0.8
Flat copper strip, with holes	max.	mm	10 × 32 × 1.0 + 5 × 32 × 1.0
Connection width extension		mm^2	(2 ×) 10 × 50 × 1.0
Copper busbar (width × thickness)			
Bolt terminal and rear–side connection			
Screw connection			M10
Direct on the switch			
	min.	mm^2	20 × 5
	max.	mm^2	30 × 10 + 30 × 5
Connection width extension			
Connection width extension	max.	mm^2	2 × (10 × 50)

Dimensions			
Explanation			Motor protection
Explanation			1 half–shaft

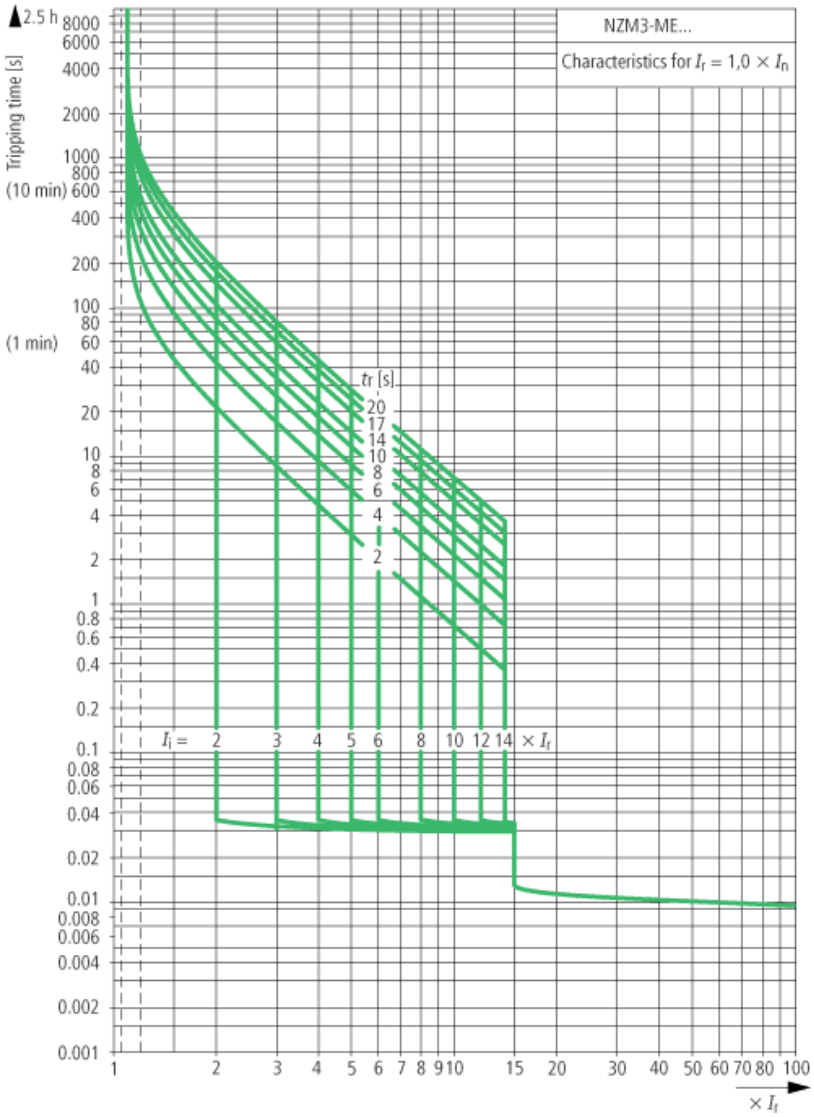
Overview

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

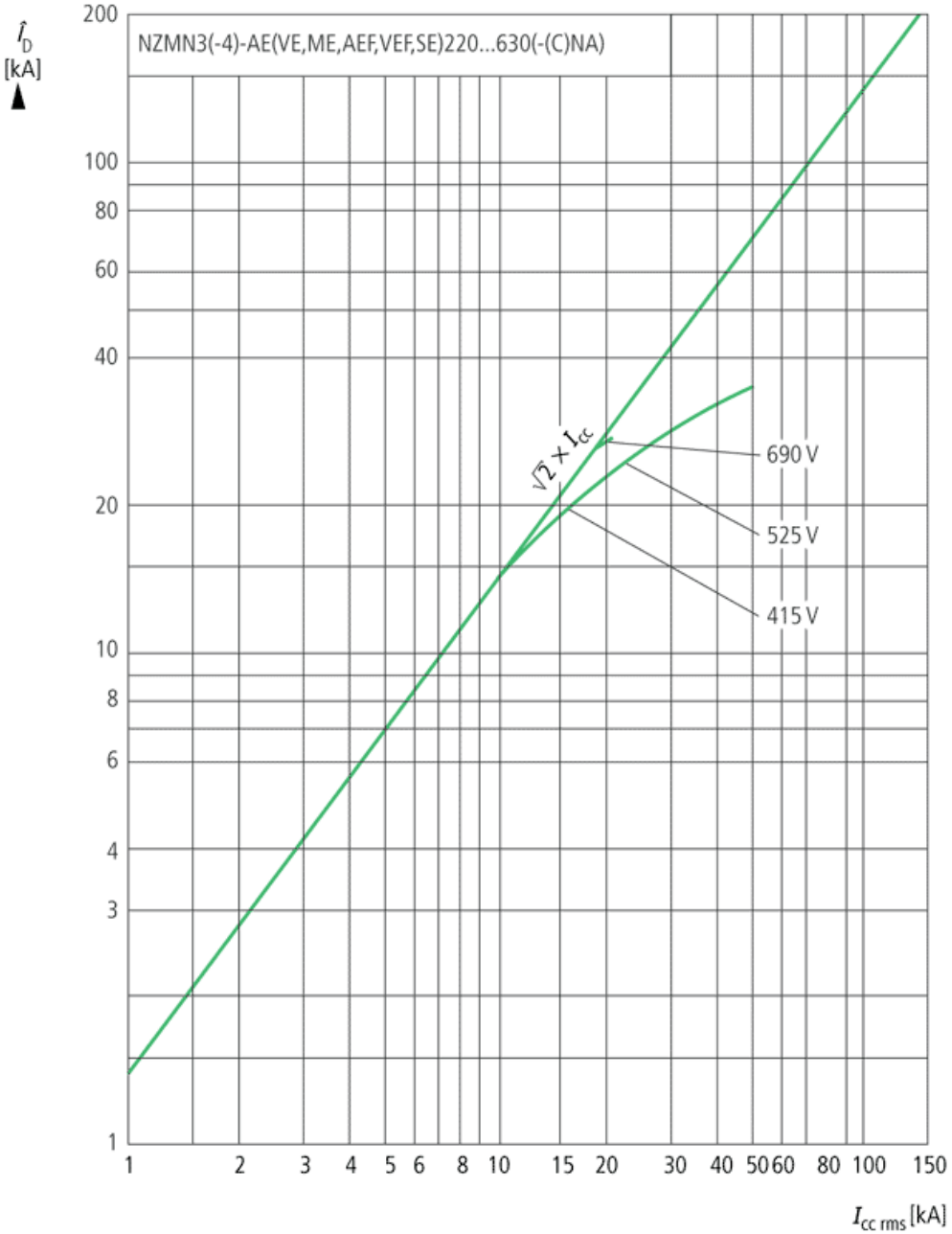
Dimensions



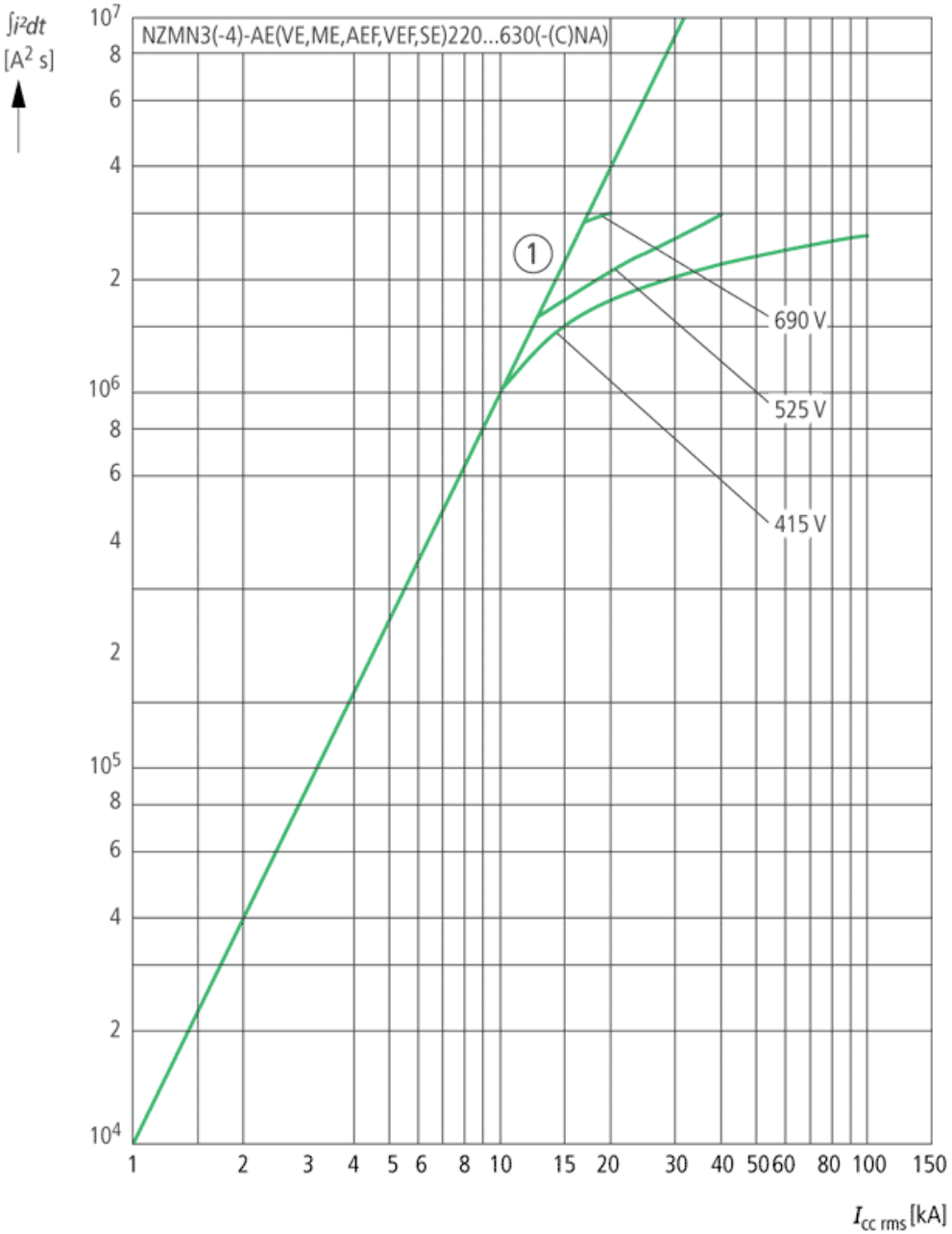
Characteristic curve



Characteristic curve



Characteristic curve



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