MOELLER

Type: **NZMN4–ME875**
Article No.: **265784**



Ordering information			
Description			Terminal screws standard, terminals as accessories
Rated current = rated uninterrupted current	I_u	A	875
Setting range			
Overload releases	I_r	A	438 – 875
Short–circuit releases Non–delayed		A	875 – 12250
Motor rating AC–3 at 400 V 50/60 Hz	P	kW	500
Rated operational current AC–3 at 400 V 50/60 Hz	I_e	A	820
Switching capacity Switching capacity		kA	50
Release system			Electronic release
Pole			3

Note concerning the product

At 690 V AC NZM...4–ME550: P = 560 kW; I_e = 550 A
NZM...4–ME875: P = 600 kW; I_e = 588 A
NZM...4–ME1400: P = 600 kW; I_e = 588 A

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
Mechanical shock resistance (IEC/EN 60068−2−27)			
Shock resistance		g	15 (half−sinusoidal shock 11 ms)
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
Dimensions			
Weight			
Weight		kg	21
Mounting position			
Direction of incoming supply			As required
Degree of protection			

Device			In the operating controls area: IP20 (basic degree of protection)
Enclosures			With insulating surround: IP40, with door coupling rotary handle: IP66
Terminations			Tunnel terminal: IP10 Phase isolator and strip terminal: IP00
Circuit–breakers			
Rated impulse withstand voltage U_{imp}			
Main contacts		V	8000
Auxiliary contacts		V	6000
Rated operational voltage	U_e	V AC	690
Overvoltage category/pollution degree			III/3
Rated insulation voltage	U_i	V	1000
Switching capacity			
Rated short–circuit making capacity			
240 V	I_{cm}	kA	105
400/415 V	I_{cm}	kA	105
440 V	I_{cm}	kA	74
525 V	I_{cm}	kA	53
690 V	I_{cm}	kA	40
Rated short–circuit breaking capacity I_{cn}			
I_{cu} to IEC/EN 60947 operating sequence O–t–CO			
240 V 50/60 Hz	I_{cu}	kA	50
400/415 V 50/60 Hz	I_{cu}	kA	50
440 V 50/60 Hz	I_{cu}	kA	35
525 V 50/60 Hz	I_{cu}	kA	25
690 V 50/60 Hz	I_{cu}	kA	20
I_{cu} to IEC/EN 60947 operating sequence O–t–CO–t–CO			
240 V 50/60 Hz	I_{cs}	kA	37
400/415 V 50/60 Hz	I_{cs}	kA	37
440 V 50/60 Hz	I_{cs}	kA	26
525 V 50/60 Hz	I_{cs}	kA	19
690 V 50/60 Hz	I_{cs}	kA	15
Technical data, divergent from the			

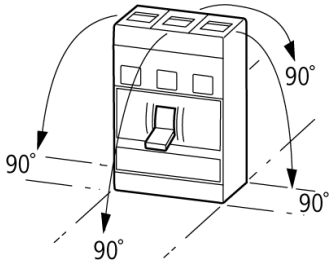
products for the IEC market switching capacity NA switches (UL489, CSA 22.2 No. 5.1)			
240 V 60 Hz		kA	85
480V 60Hz		kA	42
600 V 60 Hz		kA	35
Utilization category to IEC/EN 60947–2			B
Rated short–time withstand current			
t = 0.3 s	I_{cw}	kA	19,2
t = 1 s	I_{cw}	kA	19,2
Lifespan, mechanical	Operations		10000
Maximum operating frequency			
Max. operating frequency		Ops/h	60
Lifespan, electrical			
AC–1			
400/415 V 50/60 Hz	Operations		3000
690 V 50/60 Hz	Operations		2000
AC––3			
400/415 V 50/60 Hz	Operations		2000
690 V 50/60 Hz	Operations		1000
Current heat loss per pole at I_u		W	97
Overload releases			
Temperature compensation for NZM2 to IEC/EN 60947, residual error in the range –25 °C/+70 °C (reference temperature 40 °C)			
Electronic			0
Total opening delay at short–circuit		ms	< 25 415 V; < 35 > 415 V
Terminal capacities			
Standard equipment			Screw terminal
Accessories			Tunnel terminal Connection on rear Strip terminal
Cu conductors, Cu cable			
Tunnel terminal			
Stranded			
4–hole		mm^2	4 × (50 – 240)
Bolt terminal and rear–side connection			
Direct on the switch			

Stranded		mm^2	1 × (120 – 185) 4 × (50 – 185)
Module plate			
Single hole	min.	mm^2	1 × (120 – 300)
Single hole	max.	mm^2	2 × (95 – 300)
Module plate			
Double hole	min.	mm^2	2 × (95 – 185)
Double hole	max.	mm^2	4 × (35 – 185)
Connection width extension		mm^2	4 × 300 6 × (95 – 240)
Al conductors, Cu cable			
Tunnel terminal			
Stranded			
4–hole		mm^2	4 × (50 – 240)
Bolt terminal and rear–side connection			
Module plate			
Single hole	min.	mm^2	1 × (185 – 240)
Single hole	max.	mm^2	2 × (70 – 185)
Module plate			
Double hole		mm^2	4 × 50
Connection width extension		mm^2	2 × 240 6 × (70 – 240)
Cu strip (number of segments x width x segment thickness)			
Flat conductor terminal			
	min.	mm	6 × 16 × 0.8
	max.	mm	(2 ×) 10 × 32 × 1.0
Module plate			
Single hole		mm^2	(2 ×) 10 × 50 × 1.0
Bolt terminal and rear–side connection			
Flat copper strip, with holes	min.	mm	(2 ×) 10 × 50 × 1.0
Flat copper strip, with holes	max.	mm	(2 ×) 10 × 50 × 1.0
Connection width extension		mm^2	(2 ×) 10 × 80 × 1.0
Copper busbar (width × thickness)			
Bolt terminal and rear–side connection			
Screw connection			M10
Direct on the switch			

	min.	mm^2	25 × 5
	max.	mm^2	2 × (50 × 10)
Module plate			
Single hole	min.	mm^2	25 × 5
Single hole	max.	mm^2	2 × (50 × 10)
Module plate			
Double hole		mm^2	2 × (50 × 10)
Connection width extension			
Connection width extension	min.	mm^2	60 × 10
Connection width extension	max.	mm^2	2 × (80 × 10)
Dimensions			
			Arcing chamber, minimum clearing to neighbouring parts 100 mm
Explaination			Motor protection

Mounting position

Vertical and 90° in all directions



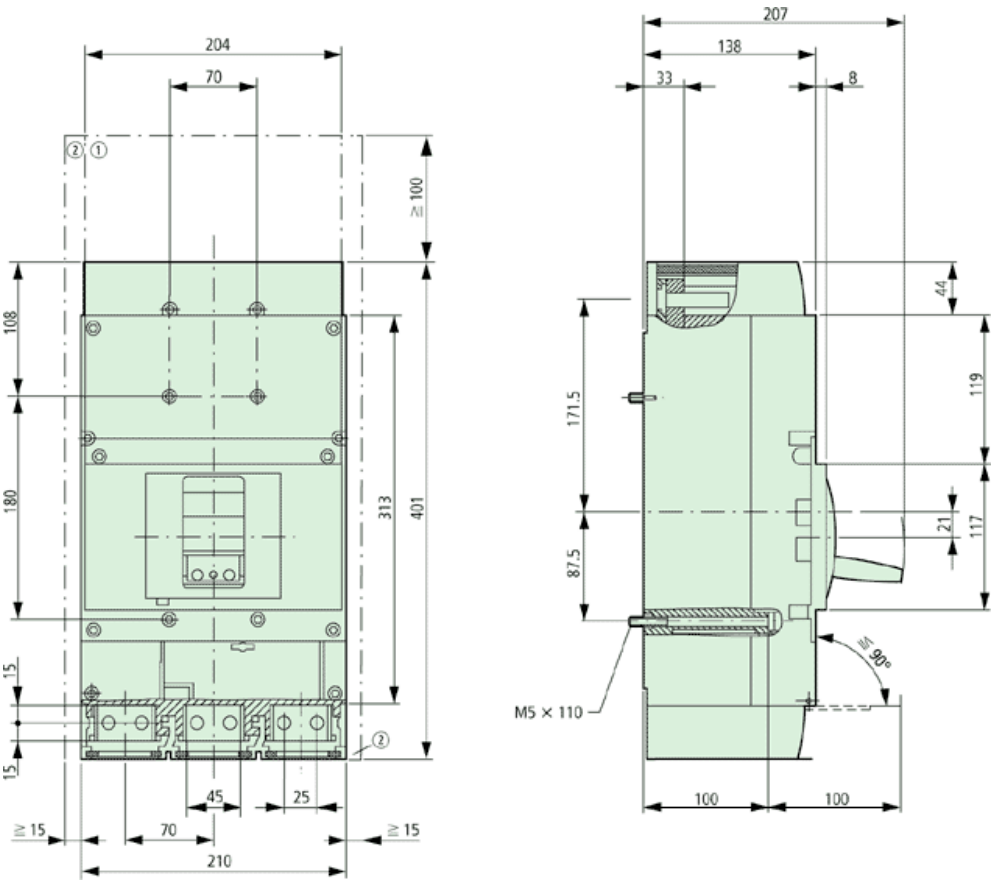
With plug–in adapter NZM2: vertical, 90° right/left

With withdrawable unit NZM3: vertical, 90° left NZM4: verticalwith remote operator: NZM2, NZM3, NZM4: vertical and 90° in all directions

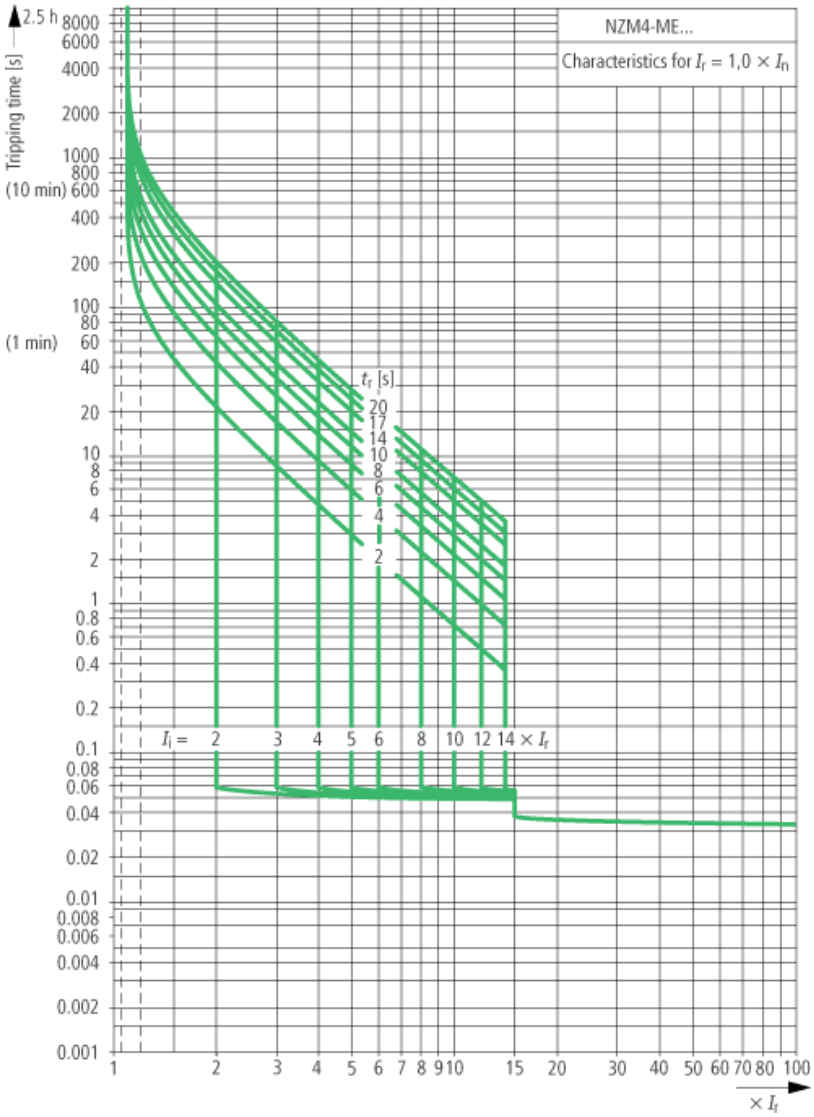
Overview

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

Dimensions



Characteristic curve



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