

Circuit break.3p select.protection

NZMN2-VE100 Part no.

Article no. 259122





Delivery programme

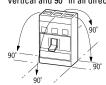
Range			Circuit-breaker
Protective function			Systems, cable, selectivity and generator protection
Standard/Approval			IEC
Installation type			Fixed mounted
Release system			Electronic release
Construction size			NZM2
Description			R.m.s. value measurement and "thermal memory" adjustable time delay setting to overcome current peaks tr: $2-20\mathrm{s}$ at 6 x Ir also infinity (without overload releases) Adjustable delay time tsd: Steps: 0, 20, 60, 100, 200, 300, 500, 750, 1000 ms i^2t constant function: fixed OFF
Number of conductors			3 pole
Standard equipment			Screw connection
Switching capacity			
400/415 V 50/60 Hz	I _{cu}	kA	50
Rated current = rated uninterrupted current			
Rated current = rated uninterrupted current	$I_n = I_u$	Α	100
Setting range			
Overload trip			
Overload releases	I _r	Α	50 - 100
Short-circuit releases			
Non-delayed	$I_i = I_n x \dots$		1200 A fixed
Delayed	$I_{sd} = I_r \times \dots$		2 - 10

General

Mounting position

deliciai		
Standards		IEC/EN 60947
Protection against direct contact		Finger and back of hand proof to VDE 0106 Part 100
Climatic proofing		Damp heat, constant to IEC 60068-2-78 Damp heat, cyclic to IEC 60068-2-30
Ambient temperature	°C	
Ambient temperature, storage	°C	- 40 - + 80
Operation	°C	- 25 + 70
Mechanical shock resistance (10 ms half-sinusoidal shock) according to IEC 60068-2-27	g	20 (half-sinusoidal shock 20 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
Weight	kg	2.345
Mounting position		

Vertical and 90° in all directions



With residual-current release

- XFI:
 NZM1, N1, NZM2, N2:
 vertical and 90° in all
 directions
- with plug-in adapter elements NZM1, N1, NZM2, N2: vertical, 90° right/left with withdrawable unit:
- NZM3, N3: vertical, 90 ° left
- NZM4, N4: vertical with remote operator:

kΑ

35

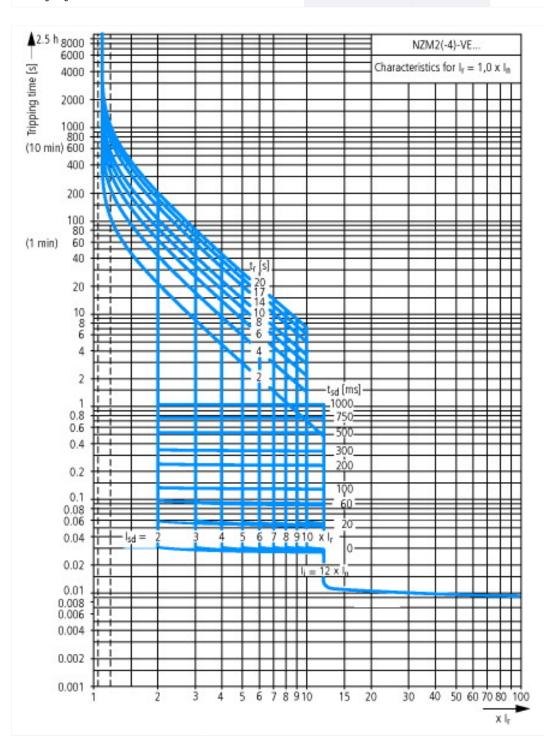
 I_{cs}

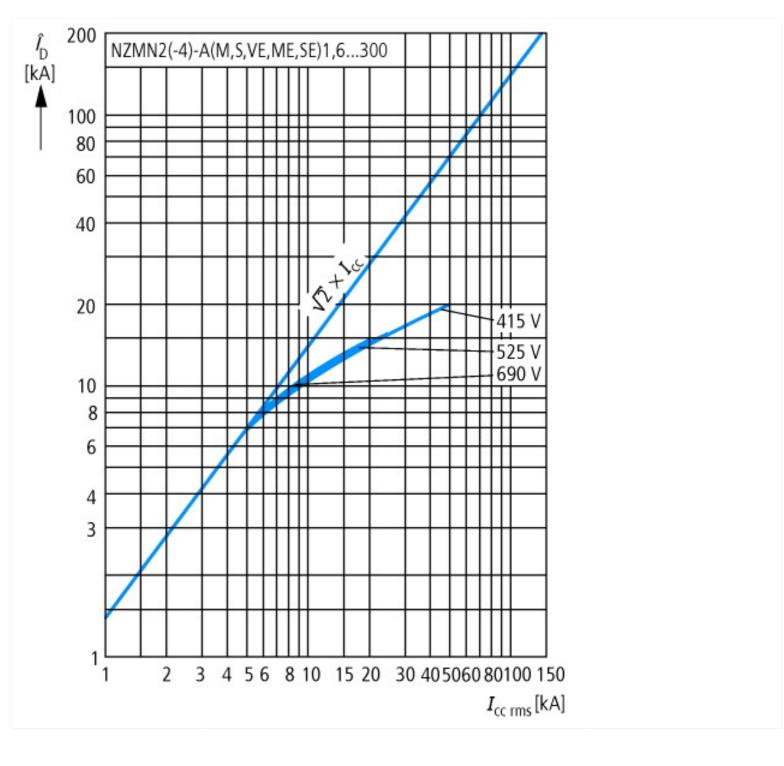
440 V 50/60 Hz

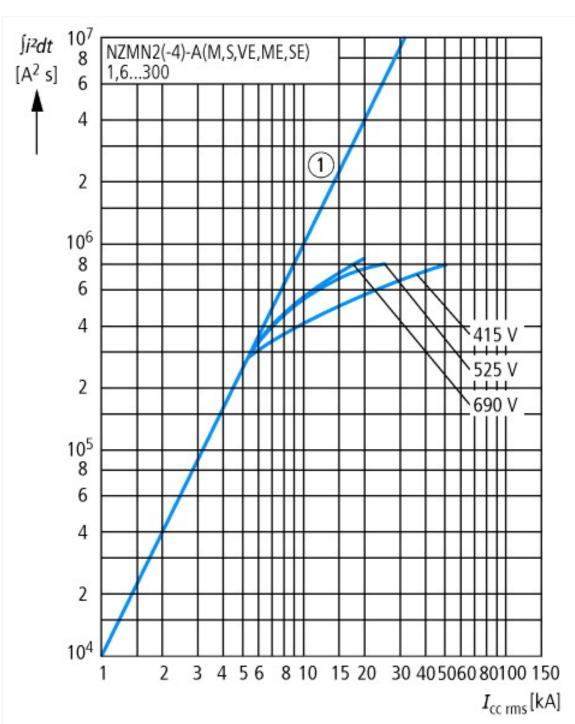
525 V 50/60 Hz	1	kA	25
	I _{cs}		
690 V 50/60 Hz	Ics	kA	5
Maximum low-voltage h.b.c. fuse		A gG/gL	355
			Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit-breaker.
Rated short-time withstand current			
t = 0.3 s	I _{cw}	kA	1.9
t = 1 s	I _{cw}	kA	1.9
Utilization category to IEC/EN 60947-2			A
Rated making and breaking capacity			
Rated operational current	l _e	Α	
AC-1			
400 V	l _e	А	300
415 V	I _e	Α	300
690 V	I _e	Α	300
AC3	-6		***
400 V	l _e	A	100
415 V			
	l _e	A	100
690 V	l _e	А	100
Lifespan, mechanical(of which max. 50 % trip by shunt/undervoltage release) Lifespan, electrical	Operations		20000
AC-1			
400 V V 50/60 Hz	Operations		10000
415 V V 50/60 Hz	Operations		10000
413 V V 50/60 Hz	Operations		7500
AC3	Operations		7300
400 V 50/60 Hz	Operations		6500
415 V 50/60 Hz	Operations		6500
690 V 50/60 Hz	Operations		5000
Max. operating frequency	Operations	Ops/h	120
Current heat losses per pole at I _u are based on the maximum rated		W	19
operational current of the frame size.			
			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			
Standard equipment			Screw connection
Overview			Basic equipment Box
Round copper conductor			
Box terminal			
Solid		mm ²	1 x (4 - 16) 2 x (4 - 16)
Stranded		mm ²	1 x (25 - 185) 2 x (25 - 70)
Tunnel terminal			

Solid		mm ²	1 x 16
Stranded		mm ²	
Stranded		mm ²	1 x (25 - 185)
Bolt terminal and rear-side connection			
Direct on the switch			
Solid		mm ²	1 x (4 - 16) 2 x (4 - 16)
Stranded		mm ²	1 x (25 - 185) 2 x (25 - 70)
Al conductors, Cu cable			
Solid		mm ²	1 x 16
Stranded		mm ²	
Stranded		mm ²	1 x (25 - 185) je nach Kabelhersteller bis zu 240 mm² anschließbar
Bolt terminal and rear-side connection			
Flat copper strip, with holes	min.	mm	2 x 16 x 0.8
Flat copper strip, with holes	max.	mm	10 x 16 x 0.8
Cu strip (number of segments x width x segment thickness)			
Box terminal			
	min.	mm ²	2 x 9 x 0.8
	max.	mm ²	10 x 16 x 0.8
Bolt terminal and rear-side connection			
Flat copper strip, with holes	min.	mm	2 x 16 x 0.8
Flat copper strip, with holes	max.	mm	10 x 16 x 0.8
Copper busbar (width x thickness)	mm		
Bolt terminal and rear-side connection			
Screw connection			M8
Direct on the switch			
	min.	mm ²	16 x 5
	max.	mm ²	20 x 5
Control cables			
		mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 1.5)

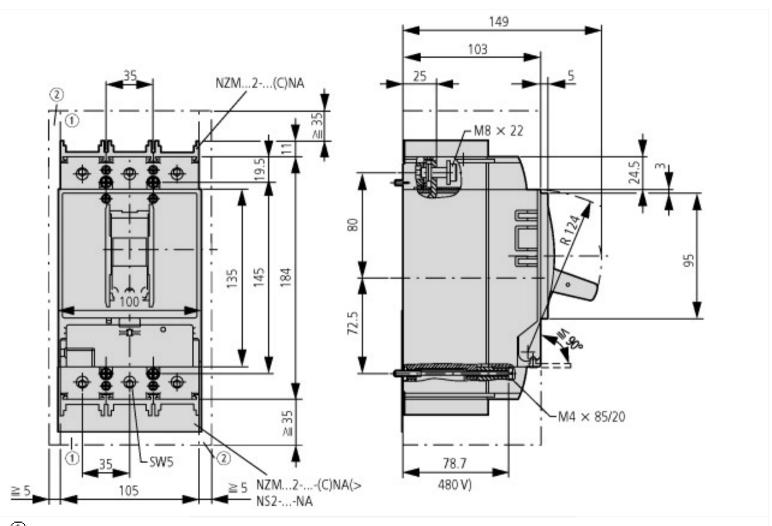
echnische Daten nach ETIM 4.0		
Number of poles		3
Rated uninterrupted current lu	А	100
Number of auxiliary contacts as N/Cs		0
Number of auxiliary contacts as N/Os		0
Device construction		Built-in device fixed built-in technique
With under voltage release		No
Motor operator optional		YES
Integrated earth fault protection		No
Suitable for DIN rail (top hat rail) mounting		No
Setting range non-delayed short-circuit release	Α	1200
Setting range short-term delayed short-circuit release	Α	1000
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	50
Switched-off indicator available		No
Type of control element		Toggle lever
Connection type main current circuit		Screw connection
Motor operator integrated		No
Position of connection for main circuit		Front connection
Protection type (IP)		IP20
Number of auxiliary contacts as changeover contact		0





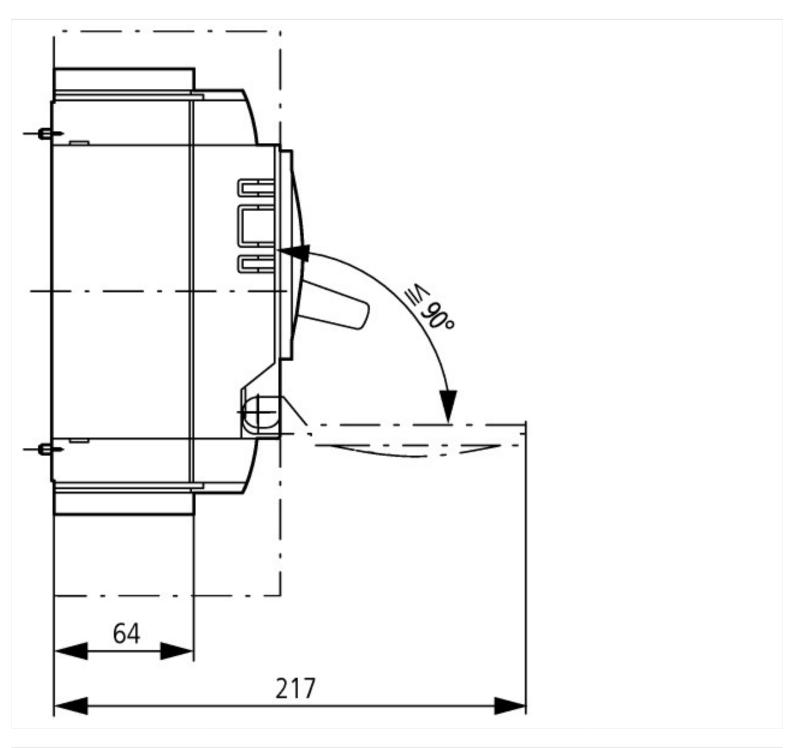


Dimensions



Blow out area, minimum clearance to adjacent parts

igl(2) Minimum clearance to adjacent parts



Additional product information (links)

IL01206006Z (AWA1230-1916) Circuit-breaker, basic device

 $ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01206006Z2010_11.pdf$