

Circuit-breaker, 3p, 250A

Part no. NZMC2-A250 Article no. 271423



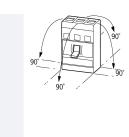
Similar to illustration

Delivery program			
Product range			Circuit-breaker
Protective function			System and cable protection
Standard/Approval			IEC
nstallation type			Fixed
Release system			Thermomagnetic release
Construction size			NZM2
Number of poles			3 pole
Standard equipment			Screw connection
Switching capacity			
400/415 V 50 Hz	I _{cu}	kA	36
Rated current = rated uninterrupted current			
Rated current = rated uninterrupted current	$I_n = I_u$	Α	250
Setting range			
Overload trip			
中	l _r	A	200 - 250
Short-circuit releases			
Non-delayed	$I_i = I_n x \dots$		6 - 10
Short-circuit releases	I _{rm}	А	1500 - 2500

Technical data

General

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, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature		
Ambient temperature, storage	°C	- 40 - + 70
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 EN 61140		
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: with remote operator:
- NZM2, N(S)2, NZM3, N(S)3,
NZM4, N(S)4: vertical and 90° in all directions

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
Other technical data (sheet catalogue)	Weight Temperature dependency, Derating Effective power loss
Circuit-hreakers	

Circuit-breakers

Rated current = rated uninterrupted current	$I_n = I_u$	Α	250
Rated surge voltage invariability	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	Ui	V	690
Use in unearthed supply systems		V	≤ ₆₉₀

Switching capacity			
Rated short-circuit making capacity	I _{cm}		
240 V	I _{cm}	kA	121
400/415 V	I _{cm}	kA	76
440 V 50/60 Hz	I _{cm}	kA	63
525 V 50/60 Hz	I _{cm}	kA	24
690 V 50/60 H	Ic	kA	14
Rated short-circuit breaking capacity \mathbf{I}_{cn}	I _{cn}		
Icu to IEC/EN 60947 test cycle 0-t-C0	lcu	kA	
240 V 50/60 Hz	I _{cu}	kA	55
400/415 V 50/60 Hz	I _{cu}	kA	36
440 V 50/60 Hz	I _{cu}	kA	30
525 V 50/60 Hz	I _{cu}	kA	12
690 V 50/60 Hz	I _{cu}	kA	8
Ics to IEC/EN 60947 test cycle 0-t-C0-t-C0	Ics	kA	
240 V 50/60 Hz	I _{cs}	kA	55
400/415 V 50/60 Hz	I _{cs}	kA	36
440 V 50/60 Hz	I _{cs}	kA	22.5
525 V 50/60 Hz	I _{cs}	kA	6
690 V 50/60 Hz	I _{cs}	kA	4
			Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit-breaker.
Utilization category to IEC/EN 60947-2			A
Rated making and breaking capacity			
Rated operational current	l _e	Α	
AC-1			
380 V 400 V	I _e	Α	250
415 V	l _e	Α	250

690 V	l _e	Α	250
	'e	^	230
AC3			222
380 V 400 V	l _e	Α	250
415 V	l _e	Α	250
660 V 690 V	l _e	Α	250
Lifespan, mechanical(of which max. 50 % trip by shunt/undervoltage release)	Operations		20000
Lifespan, electrical			
AC-1			
400 V 50/60 Hz	Operations		10000
415 V 50/60 Hz	Operations		7500
690 V 50/60 Hz	Operations		5000
Max. operating frequency		0ps/h	120
Total downtime in a short-circuit		ms	< 10
Terminal capacity			
Standard equipment			Screw connection
Optional accessories			Box terminal Tunnel terminal connection on rear
Round copper conductor			
Box terminal			
Solid		mm ²	1 x (10 - 16) 2 x (6-16)
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 (10 - 16)
50.10		mm	2 x (6 - 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) ²⁾
P. D. C.			²⁾ Up to 240 mm ² can be connected depending on the cable manufacturer.
Bolt terminal and rear-side connection			2.42.22
Flat copper strip, with holes	min.	mm	2 x 16 x 0.8
Flat copper strip, with holes	max.	mm	10 x 24 x 0.8
Cu strip (number of segments x width x segment thickness)			
Box terminal			0000
	min.	mm	2x9x0.8
	max.	mm	10 x 16 x 0.8 (2x) 8 x 15.5 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 24 x 0.8
Copper busbar (width x thickness)	mm		
Bolt terminal and rear-side connection			
Screw connection			M8
Direct on the switch			
	min.	mm	16 x 5
	max.	mm	24 x 8

Rated operational current for specified heat dissipation n	Design verification as per IEC/EN 61439			
Equipment heat dissipation, current-dependent Poid W 58.13 Operating ambient temperature min. °C -25 Operating ambient temperature max. °C 70 IEC/EN 61439 design verification 10.2 Strength of materials and parts 10.2 Corrosion resistance 10.2.3 I Verification of sesistance of insulating materials to normal heat and fire due to internal electric effects 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (IVI) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Begree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9 Insulation properties 10.9.1 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Mechanical function 10.15 Mechanical function 10.16 Mechanical function 10.17 Internal electric specifications for resternal conductors 10.18 Insulation properties 10.29 Power-frequency electric strength 10.40 Temperature rise 10.50 Temperature rise 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Mechanical function 10.15 Mechanical function 10.16 Mechanical function 10.17 Device the entire switchgear needs to be evaluated. 10.18 The panel builder's responsibility. 10.19 Temperature rise 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Mechanical function 10.15 Mechanical function 10.16 Mechanical function 10.17 Temperature rise 10.18 Temperature rise 10.19 Temperature rise 10.10 Temperature rise 10.10 Temperatur	Technical data for design verification			
Operating ambient temperature min. Operating ambient temperature max. C 70 C 70 C	Rated operational current for specified heat dissipation	In	Α	250
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	10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
	10.13 Mechanical function			

Technical data ETIM 6.0

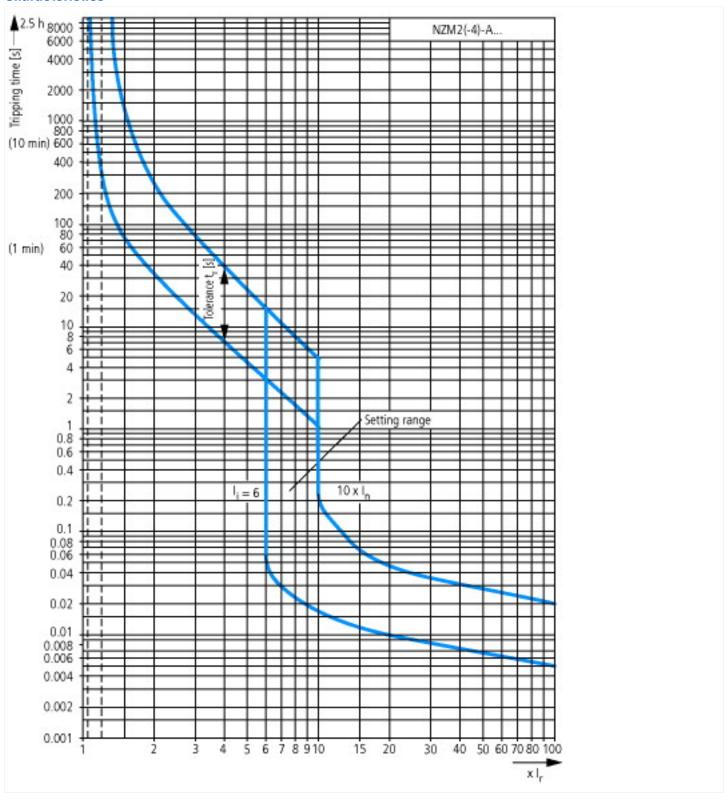
Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation prot. (EC000228)

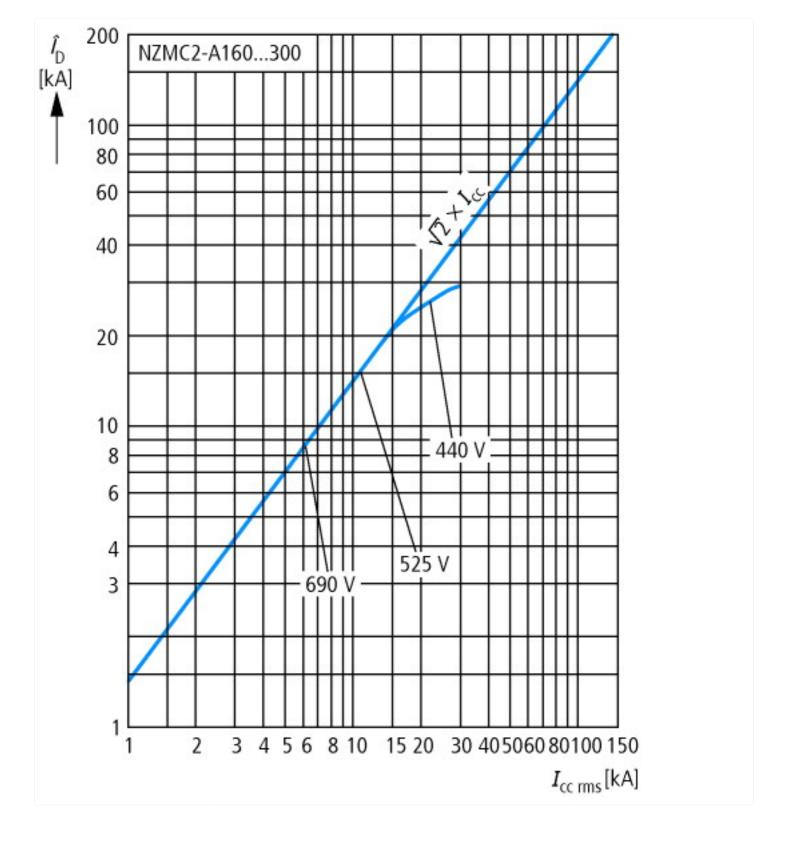
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss8.1-27-37-04-09 [AJZ716010])

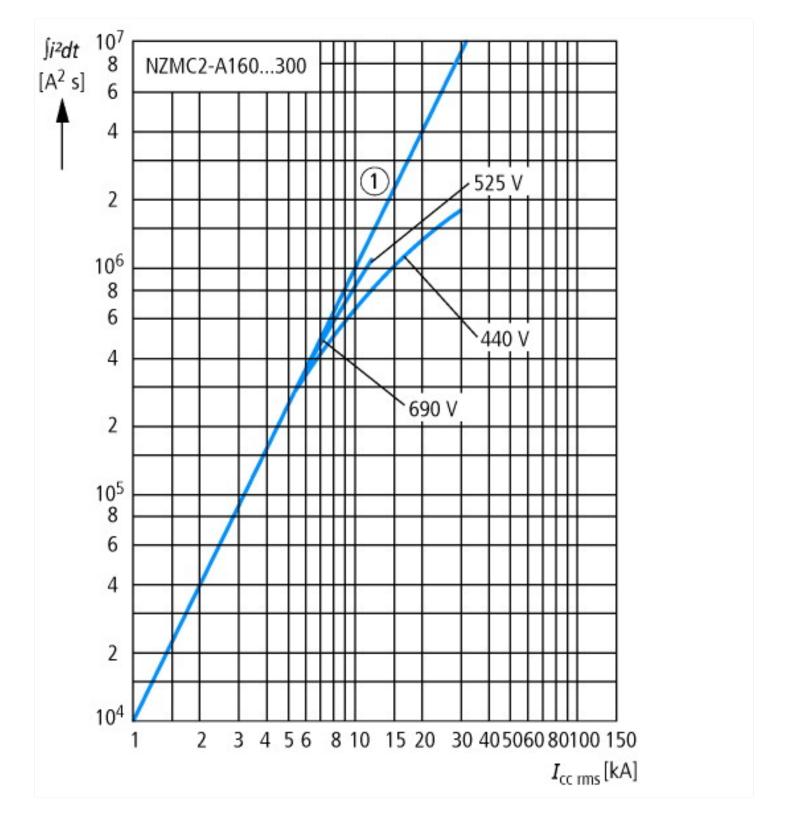
Rated permanent current lu	Α	250
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	36
Overload release current setting	А	200 - 250
Adjustment range short-term delayed short-circuit release	А	0 - 0
Adjustment range undelayed short-circuit release	А	1500 - 2500
Integrated earth fault protection		No
Type of electrical connection of main circuit		Screw connection
Device construction		Built-in device fixed built-in technique
Suitable for DIN rail (top hat rail) mounting		No
DIN rail (top hat rail) mounting optional		Yes
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as change-over contact		0
Switched-off indicator available		No
With under voltage release		No
Number of poles		3

Position of connection for main current circuit	Front side
Type of control element	Rocker lever
Complete device with protection unit	Yes
Motor drive integrated	No
Motor drive optional	Yes
Degree of protection (IP)	IP20

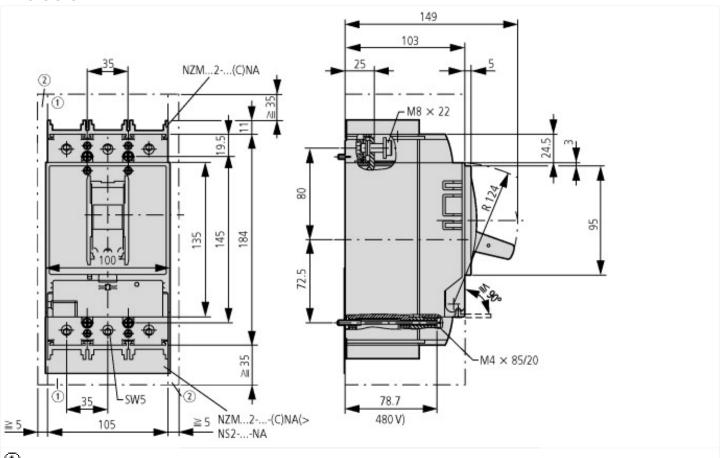
Characteristics





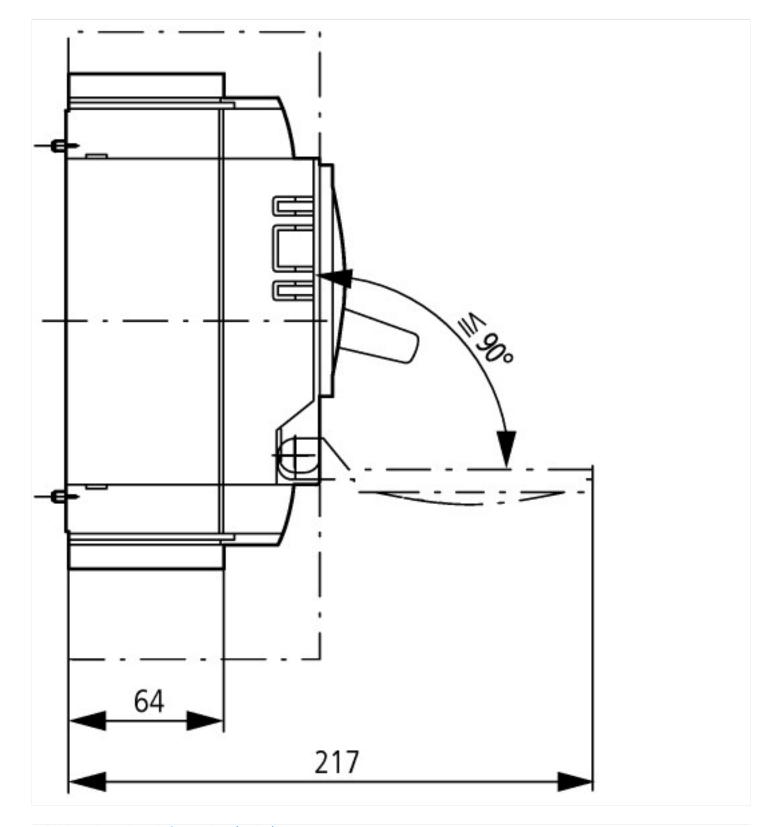


Dimensions



 $\begin{tabular}{c} \begin{tabular}{c} \begin{tabu$

 $\textcircled{2}_{\text{Minimum clearance to adjacent parts}}$



Additional product information (links)

IL01206006Z (AWA1230-1916) Circuit-Breaker, basic unit		
IL01206006Z (AWA1230-1916) Circuit-Breaker, basic unit	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01206006Z2015_11.pdf	
Weight	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.171	
Temperature dependency, Derating	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.172	
Effective power loss	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.174	
CurveSelect characteristics program	http://www.eaton.eu/DE/Europe/Electrical/CustomerSupport/ConfigurationTools/CharacteristicsProgram/index.htm	