DATASHEET - NZMC1-4-A50



Circuit-breaker, 4p, 50A

Part no.NZMC1-4-A50Catalog No.271410



Similar to illustration

Delivery program				
Product range			Circuit-breaker	
Protective function			System and cable protection	
Standard/Approval			IEC	
Installation type			Fixed	
Release system			Thermomagnetic release	
Construction size			NZM1	
Description			Set value in neutral conductor is synchronous with set value Ir of main pole.	
Number of poles			4 pole	
Standard equipment			Box terminal	
Switching capacity				
400/415 V 50 Hz	I _{cu}	kA	36	
Rated current = rated uninterrupted current				
Rated current = rated uninterrupted current	$I_n = I_u$	А	50	
Neutral conductor	% of phase conductor	%	100	
Setting range				
Overload trip				
¢	I _r	A	40 - 50	
Main pole	l _r	A	40 - 50	
Short-circuit releases				
Non-delayed	I _i = I _n x		6 - 10	
Short-circuit releases	I _{rm}	A	300 - 500	

Technical data

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

Mounting position			Vertical and 90° in all directions With XFI earth-fault release: - NZM1, N1, NZM2, N2: vertical and 90° in all directions with plug-in unit - NZM1, N1, NZM2, N2: vertical, 90° right/left with withdrawable unit: - NZM3, N3: vertical, 90° right/left - NZM4, N4: vertical 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)			Temperature dependency, Derating
Circuit-breakers Rated current = rated uninterrupted current	$I_n = I_u$	А	50
•		~	
Rated surge voltage invariability	U _{imp}	M	
Main contacts		V	6000
Auxiliary contacts		V	6000
Rated operational voltage	U _e	V AC	690
Overvoltage category/pollution degree		N	111/3
Rated insulation voltage	Ui	V	690
Use in unearthed supply systems Switching capacity		V	≦ 690
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		kA	63
525 V 50/60 Hz	I _{cm}	kA	24
	I _{cm}		
690 V 50/60 H Rated short-circuit breaking capacity I _{cn}	lc	kA	14
	I _{cn}	1.0	
Icu to IEC/EN 60947 test cycle O-t-CO	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	lcs	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
Utilization category to IEC/EN 60947-2			Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit-breaker.
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 break time at short-circuit		ms	< 10
Terminal capacity			
Standard equipment			Box terminal
Optional accessories			Screw connection 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 (10 - 70) ³⁾ 2 x (6-25)
Turnel terminel			³⁾ Up to 95 mm ² can be connected depending on the cable manufacturer.
Tunnel terminal		0	1 16
Solid		mm ²	1 x 16
Stranded			
1-hole		mm ²	1 x (25 - 95)
Bolt terminal and rear-side connection			
Direct on the switch			
Solid		mm ²	1 x (10 - 16) 2 x (6 - 16)
Stranded		mm ²	1 x (10 - 70) ³⁾ 2 x 25
			$^{3)}$ Up to 95 $\rm mm^2$ can be connected depending on the cable manufacturer.
Al circular conductor			
Tunnel terminal			
Solid		mm ²	1 x 16
Stranded			
Stranded		mm ²	1 x (25 - 95)
Bolt terminal and rear-side connection			
Direct on the switch			
Solid		mm ²	1 x (10 - 16) 2 x (10 - 16)
Stranded		mm ²	1 × (25 - 35) 2 × (25 - 35)
Cu strip (number of segments x width x segment thickness)			
Box terminal			
	min.	mm	2 x 9 x 0.8
	max.	mm	9 x 9 x 0.8
Copper busbar (width x thickness)	mm		
Bolt terminal and rear-side connection			
Screw connection			M6
Direct on the switch			
	min.	mm	12 x 5
	max.	mm	16 x 5
Control cables			
		mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 1.5)

Design verification as per IEC/EN 61439

5			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	50
Equipment heat dissipation, current-dependent	P _{vid}	W	13.2
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			

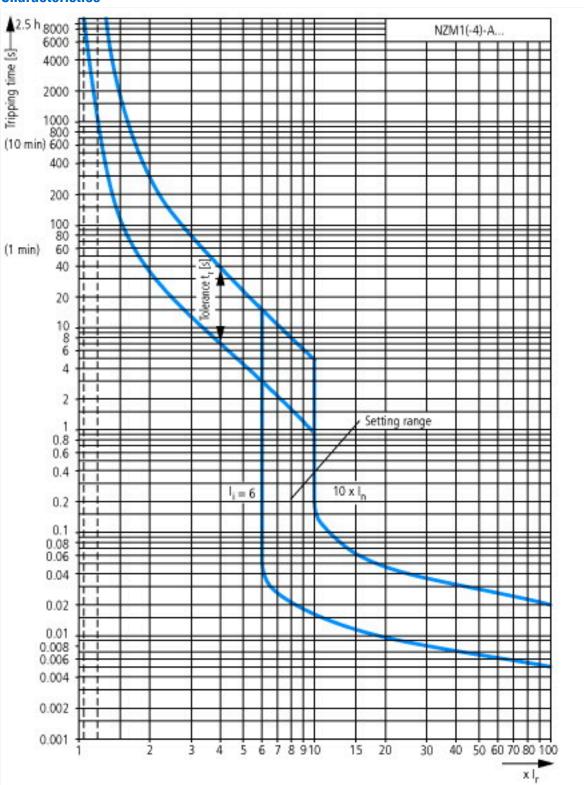
10.2.2 Corresion resistance Meets the product standard's requirements. 10.2.3 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.2.3 Verification of resistance of insulating materials to abnormal heat Meets the product standard's requirements. 10.2.3 Verification of resistance of insulating materials to abnormal heat Meets the product standard's requirements. 10.2.4 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements. 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.5 Lifting Meets the product standard's requirements. 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.5 Lifting Meets the product standard's requirements. 10.3.5 Degree of protection of ASSEMBLIES Does not apply, since the entire switchgear needs to be evaluated. 10.4.5 Learnes and creepage distances Meets the product standard's requirements. 10.4.5 Protection against electric strength Meets the product standard's requirements. 10.8 Incorporation of switching devices and components Is the panel builder's responsibility. 10.8 Lorporerifes Is the panel builder's responsibility.		
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	10.12 Electromagnetic compatibility	
	10.13 Mechanical function	

Technical data ETIM 7.0

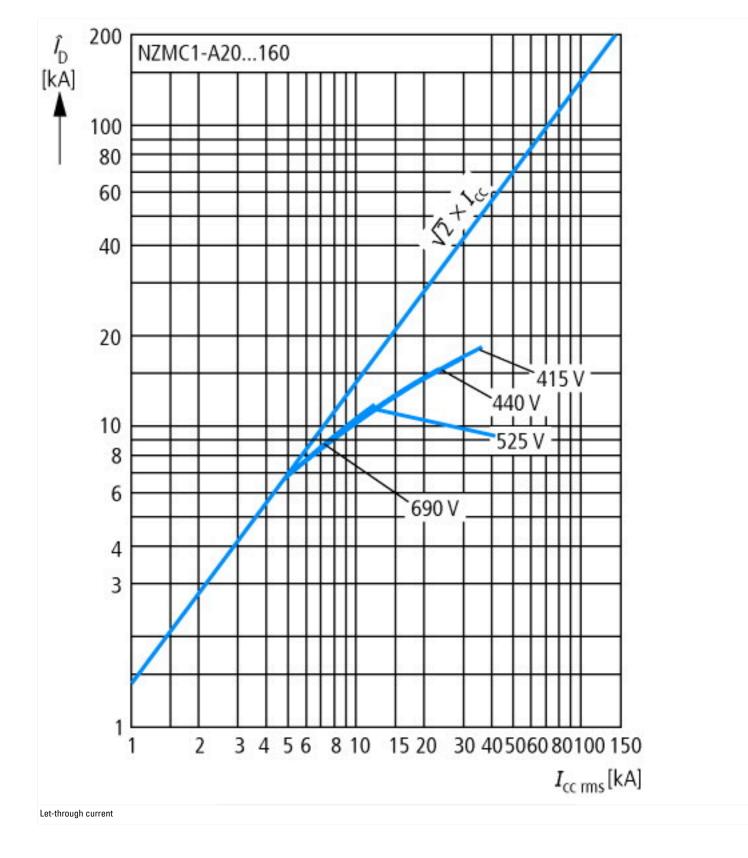
Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228)

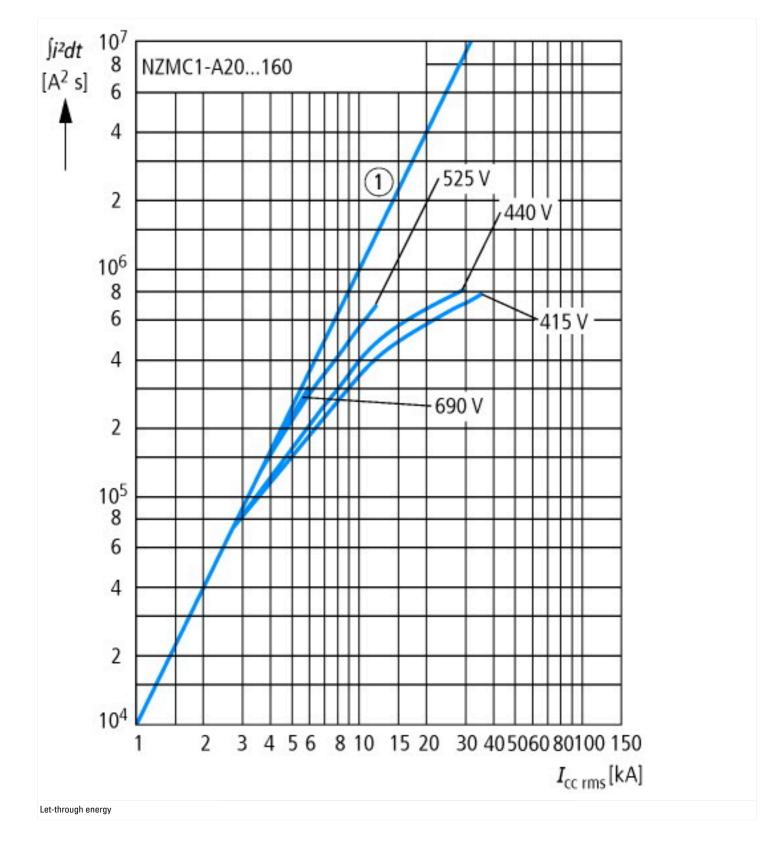
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss10.0.1-27-37-04-09 [AJZ716013])

protection (eci@ss10.0.1-27-37-04-09 [AJZ710013])		
Rated permanent current lu	А	50
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	36
Overload release current setting	А	40 - 50
Adjustment range short-term delayed short-circuit release	А	0 - 0
Adjustment range undelayed short-circuit release	А	6 - 10
Integrated earth fault protection		No
Type of electrical connection of main circuit		Frame clamp
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
With switched-off indicator		No
With under voltage release		No
Number of poles		4
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		No
Degree of protection (IP)		IP20

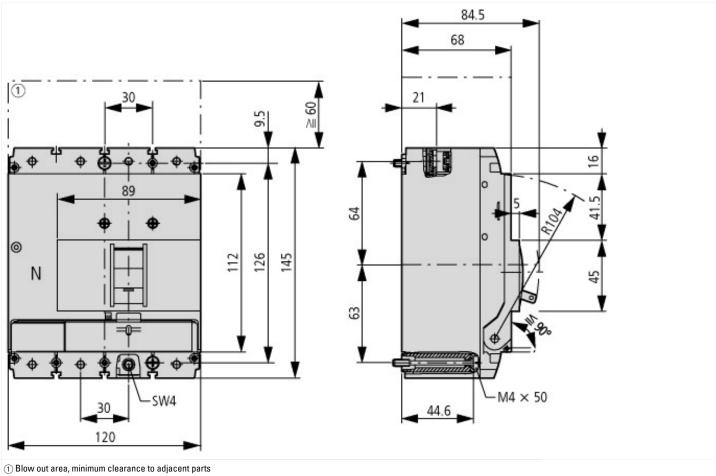


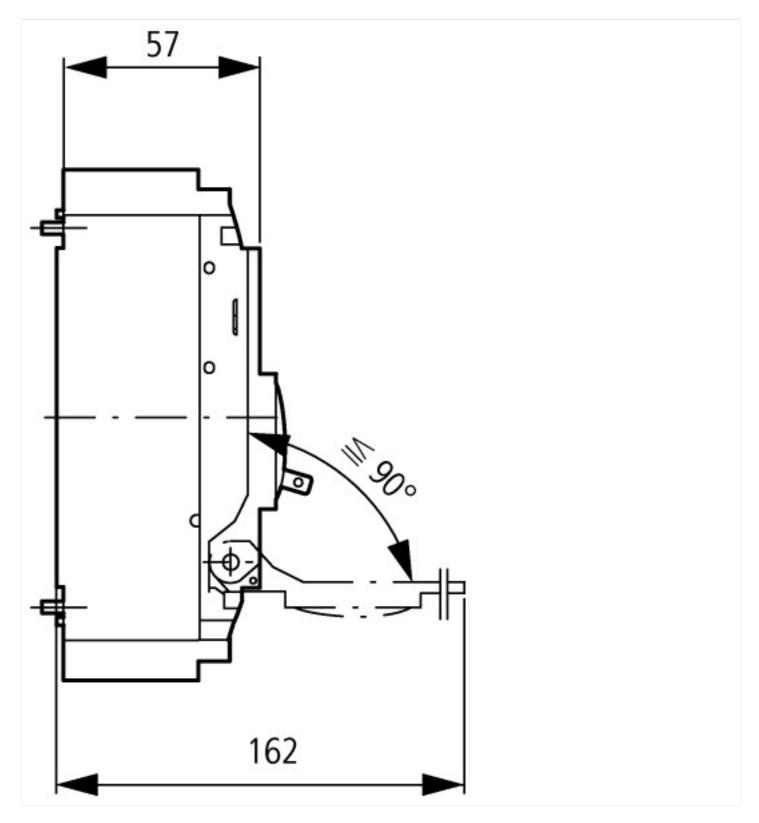
Characteristics











Additional product information (links)

Temperature dependency, Derating	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.172
CurveSelect characteristics program	http://www.eaton.eu/DE/Europe/Electrical/CustomerSupport/ConfigurationTools/CharacteristicsProgram/ index.htm
additional technical information for NZM power switch	https://es-assets.eaton.com/DOCUMENTATION/PDF/nzm_technic_de_en.pdf