

Circuit-breaker, 3 p, 400A

Part no. LZMC3-A400-I Article no. 111955



Similar to illustration

Delivery programme			
Product range			Circuit-breaker
Protective function			System and cable protection
Standard/Approval			IEC
Installation type			Fixed
Release system			Thermomagnetic release
Construction size			LZM3
Number of poles			3 pole
Standard equipment			Screw connection
Switching capacity			
400/415 V 50/60 Hz	I _{cu}	kA	36
Rated current = rated uninterrupted current			
Rated current = rated uninterrupted current	$I_n = I_u$	Α	400
Setting range			
Overload trip			
中	I _r	Α	320 - 400
Short-circuit releases			
Non-delayed	$I_i = I_n x \dots$		6 - 10

Technical data

General

General		
Standards		IEC/EN 60947, VDE 0660
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
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° 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

contacts:				
Device Inclusions	Direction of incoming supply			as required
Enclosures Transitions	Degree of protection			
Terminations	Device			In the area of the HMI devices: IP20 (basic protection type)
The circle in the case and current 10 10 10 10 10 10 10 1	Enclosures			with insulating surround: IP40with door coupling rotary handle: IP66
Read aure of center invinitempted current Read aure of chainsprint (all prints) Part				
Main contacts				
Main contacts			Α	400
Autoliary cartracts	Rated surge voltage invariability	U _{imp}		
Rated apperational voltage	Main contacts			
Name				
The specifications apply to those-pole system protective circuit breakers with NZMMH19(12)3-A The memanagetic release nated for currents of up to 500.0 The following applies when using the rated operating voltage for switching or contracts: DC currection factor for instantaneous release response value NZMH123. NZM21.145	Rated operational voltage	U _e	V AC	
NZAMINITICAJA—. thermonagenite release rated for currents of up to 500 - The following applies when using the rated operating part agule. XFM 1-25, N The following applies when using the rated operating one aquite. XFM 1-25, N Set current for, I fee DC - Set current I, Ivn AC / DC correction factor Switching of one pulse view series contexts. Providing a category/pollution degree III/3 Rated insulation voltage U ₁ V 1000 Use in uncerthed supply systems V ≤ 890 Switching capacity Rated insulation voltage V ₂ V Switching capacity Rated dated-rectual making capacity V ₂ V 4 v 4 v 4 v 4 v 4 v 4 v 4 v 4	Rated operational voltage	Ue	V DC	750
Rated insulation voltage U _I V 1000 Switching capacity Rated short-circuit making capacity I _{cm} kA 121 400/415 V 50/60 Hz 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 Hz I _{cm} kA 14 Rated short-circuit breaking capacity I _{cm} I _{cm} kA 14 Icu to IEC/EN 60947 test cycle 0-t-CO Icu kA 55 400/415 V 50/60 Hz I _{cu} kA 36 440 V 50/60 Hz I _{cu} kA 36 440 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 55 690 V 50/60 Hz I _{cu} kA 12 690 V 50/60 Hz I _{cu} kA 55 1cs to IEC/EN 60947 test cycle 0-t-CO-t-C				The following applies when using the rated operating voltage for switching on 3 contacts:
V Switching capacity Sw	Overvoltage category/pollution degree			III/3
Switching capacity 240 V 50/60 Hz I _{cm} kA 121 400/415 V 50/60 Hz 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 Hz I _c kA 14 Rated short-circuit breaking capacity I _{cm} I _c kA 14 I cu to IEC/EN 60947 test cycle 0-t-CO Icu kA 55 400/415 V 50/60 Hz I _c kA 36 440 V 50/60 Hz I _c kA 36 440 V 50/60 Hz I _c kA 36 440 V 50/60 Hz I _c kA 12 690 V 50/60 Hz I _c kA 12 690 V 50/60 Hz I _c kA 55 1 cs to IEC/EN 60947 test cycle 0-t-CO-t-CO Ics kA 55 230 V 50/60 Hz I _c kA 55 400/415 V 50/60 Hz I _c kA 55 400/415 V 50/60 Hz I _c	Rated insulation voltage	Ui	V	1000
Switching capacity 240 V 50/60 Hz I _{cm} kA 121 400/415 V 50/60 Hz 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 Hz I _{cm} kA 14 Rated short-circuit breaking capacity I _{cm} I _{cm} kA 14 Rated short-circuit breaking capacity I _{cm} I _{cm} kA 55 I cu to IEC/EN 60947 test cycle 0-t-CO Icu kA 55 400/415 V 50/60 Hz I _{cu} kA 36 440 V 50/60 Hz I _{cu} kA 12 690 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-CO-t-CO I _{cu} kA 55 400/415 V 50/60 Hz I _{cu} kA 55 400/415 V 50/60 Hz I _{cu} kA 55 400/415 V 50/60 Hz I _{cu} kA 55 400/	Use in unearthed supply systems		V	≦ ₆₉₀
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1cm kA 63 1cm kA 63 1cm kA 24 1cm kA 25 1cm kA 25 25 25 25 25 25 25	240 V 50/60 Hz	I _{cm}	kA	121
525 V 50/60 Hz 690 V 50/60 H Rated short-circuit breaking capacity l _{cn} Icu to IEC/EN 60947 test cycle 0-t-CO Icu kA 240 V 50/60 Hz 400/415 V 50/60 Hz 440 V 50/60 Hz 1cu kA 1cu kA 1cu kA 36 440 V 50/60 Hz 1cu kA 1cu kA 1cu kA 30 525 V 50/60 Hz 1cu kA 1cu kA 12 690 V 50/60 Hz 1cu kA 12 690 V 50/60 Hz 1cu kA 12 400/415 V 50/60 Hz 1cu kA 12 400/415 V 50/60 Hz 1cu kA 1c	400/415 V 50/60 Hz	I _{cm}	kA	76
1cm kA 24 690 V 50/60 H 1c kA 14 Rated short-circuit breaking capacity I _{cn} I _{cu} kA 24 1cu to IEC/EN 60947 test cycle 0-t-CO Icu 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-CO-t-CO Ics kA 230 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 36 440 V 50/60 Hz I _{cs} kA 22.5 525 V 50/60 Hz I _{cs} kA 9	440 V 50/60 Hz	I _{cm}	kA	63
690 V 50/60 H Rated short-circuit breaking capacity I _{Cn} Icu to IEC/EN 60947 test cycle 0-t-C0 Icu kA 240 V 50/60 Hz 400/415 V 50/60 Hz 440 V 50/60 Hz 690 V 50/60 Hz 1cu kA 1cu kA 55 400 V 50/60 Hz 1cu kA 36 420 V 50/60 Hz 1cu kA 30 525 V 50/60 Hz 1cu kA 12 690 V 50/60 Hz 1cu kA 12 690 V 50/60 Hz 1cu kA 12 690 V 50/60 Hz 1cu kA 55 400/415 V 50/60 Hz 1cs to IEC/EN 60947 test cycle 0-t-C0-t-C0 1cs kA 230 V 50/60 Hz 1cs kA 230 V 50/60 Hz 1cs kA 230 V 50/60 Hz 1cs kA 55 400/415 V 50/60 Hz 1cs kA 230 V 50/60 Hz 1cs kA 230 V 50/60 Hz 1cs kA 255 V 50/60 Hz 1cs kA 255 KA 36	525 V 50/60 Hz		kA	24
Rated short-circuit breaking capacity I _{cn} I				
Icu to IEC/EN 60947 test cycle 0-t-CO				
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 55 400/415 V 50/60 Hz I _{cs} kA 36 440 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 9	- · · · · · · · · · · · · · · · · · · ·		kA	
400/415 V 50/60 Hz 440 V 50/60 Hz 1cu kA 30 525 V 50/60 Hz 1cu kA 12 690 V 50/60 Hz 1cu kA 8 1cs to IEC/EN 60947 test cycle 0-t-CO-t-CO 1cs kA 230 V 50/60 Hz 1cs kA 55 400/415 V 50/60 Hz 1cs kA 36 440 V 50/60 Hz 1cs kA 9				55
440 V 50/60 Hz				
525 V 50/60 Hz				
690 V 50/60 Hz				
Ics to IEC/EN 60947 test cycle 0-t-C0-t-C0 Ics kA 230 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 9				
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400/415 V 50/60 Hz				
440 V 50/60 Hz				
525 V 50/60 Hz				
		I _{cs}		
690 V 50/60 Hz Ics kA 4	525 V 50/60 Hz	I _{cs}	kA	9
Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit-breaker.	690 V 50/60 Hz	Ics	kA	Maximum back-up fuse, if the expected short-circuit currents at the installation

Rated short-time withstand current			
t = 0.3 s	I _{cw}	kA	3.3
t = 1 s	I _{cw}	kA	3.3
Utilization category to IEC/EN 60947-2			A
Rated making and breaking capacity			
Rated operational current	le	Α	
AC-1			
380 V 400 V	l _e	Α	500
415 V	Ie	Α	500
690 V	Ie	Α	500
AC3			
380 V 400 V	Ie	Α	400
415 V	I _e	Α	400
660 V 690 V	I _e	Α	400
Lifespan, mechanical	Operations		15000
Lifespan, electrical			
AC-1			
400 V 50/60 Hz	Operations		5000
690 V 50/60 Hz	Operations		3000
AC-2, AC-3			
400 V 50/60 Hz	Operations		2000
690 V 50/60 Hz	Operations		2000
Max. operating frequency		Ops/h	60
Current heat losses per pole at ${\bf l}_{\rm u}$ are based on the maximum rated operational current of the frame size.		W	40
			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
Round copper conductor			
Tunnel terminal			
Solid		mm^2	1 x (16 - 185)
Copper busbar (width x thickness)	mm		
Bolt terminal and rear-side connection			
Screw connection			M10

Design verification as per IEC/EN 61439

Design verification as per illo/Liv 01433			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	400
Equipment heat dissipation, current-dependent	P_{vid}	W	72.48
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			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.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.

10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9 Insulation properties	
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

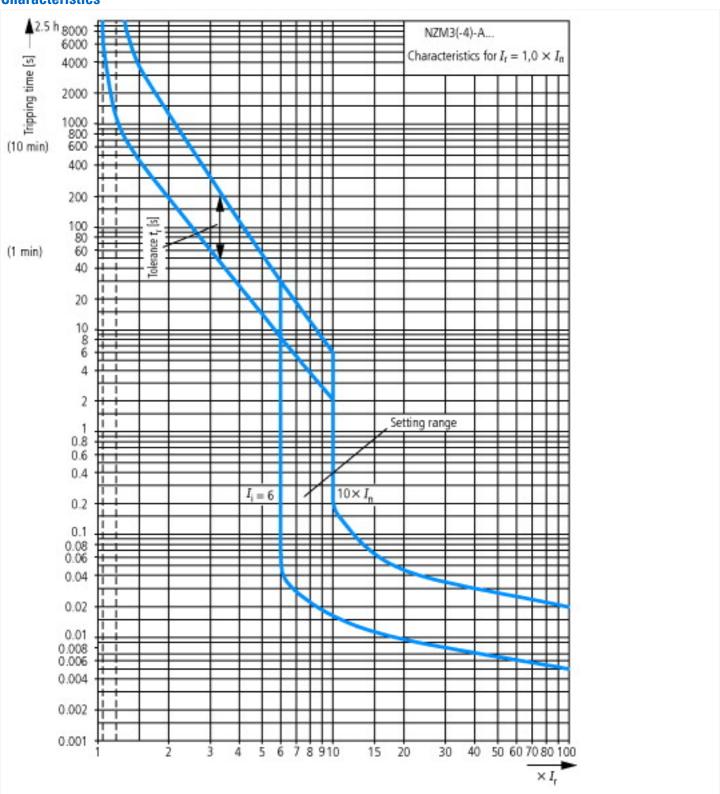
Technical data ETIM 6.0

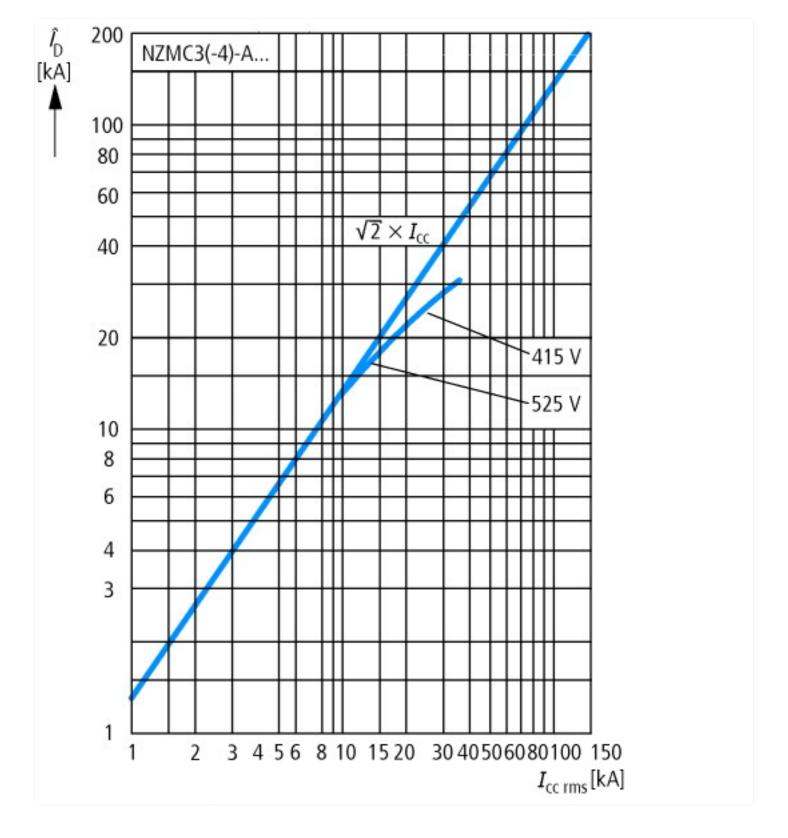
Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation prot. (EC000228)

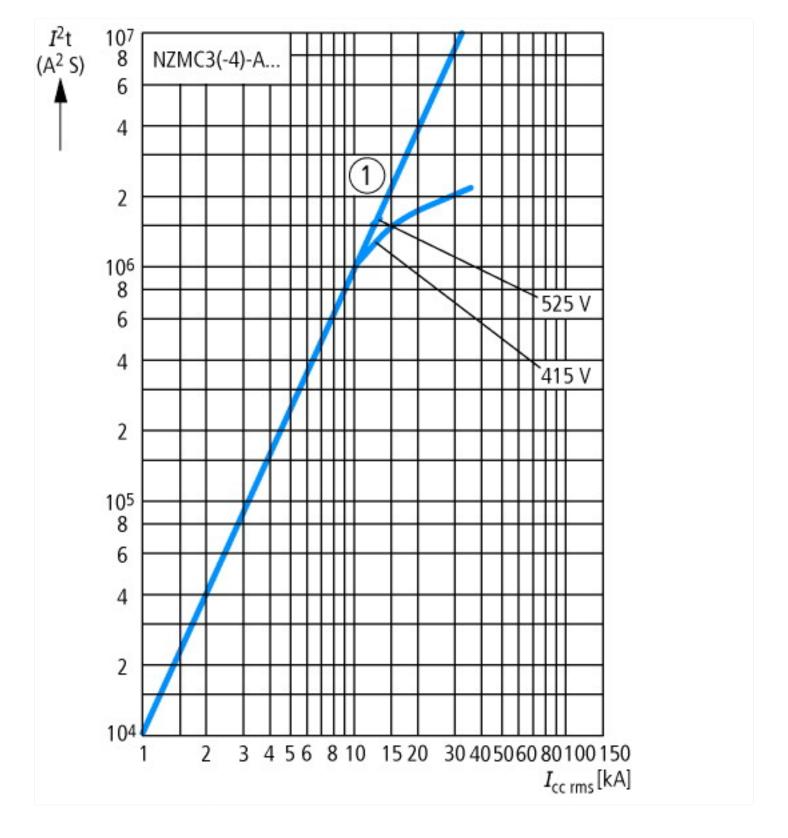
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss8.1-27-37-04-09 [AJZ716010])

Rated permanent current lu A 40 90 Rated voltage 60 - 80 80 - 80 Rated voltage 60 - 80 80 - 80 Overload release current setting 60 - 80 30 - 40 Adjustment range short-term delayed short-circuit release 60 - 90 200 - 90 Adjustment range undelayed short-circuit release 70 - 90 200 - 90 Adjustment range undelayed short-circuit release 80 - 90 200 - 90 Adjustment range undelayed short-circuit release 80 - 90 200 - 90 Tiege are de enth fault protection 80 - 90 200 - 90 Type of electrical connection of main circuit 80 - 90 200 - 90 Suitable for DIN rail (top hat rail) mounting 80 - 90 200 - 90 Number of auxiliary contacts as normally closed contact 90 - 90 90 Number of auxiliary contacts as change-over contact 90 - 90 90 With under voltage release 90 - 90 90 With under voltage release 90 - 90 90 Vibrum of poles 90 - 90 90 Type of control of main current circuit 9	protection (ecl@ss8.1-27-37-04-09 [AJZ716010])		
Rated short-circuit breaking capacity lou at 400 V, 50 Hz kA 36 Overload release current setting A 320 - 400 Adjustment range short-term delayed short-circuit release A 0 - 0 Adjustment range undelayed short-circuit release A 2400 - 4000 Integrated earth fault protection B A 200 - 4000 Type of electrical connection of main circuit B Cerw connection Device construction Built-in device fixed built-in technique DIN rail (top hat rail) mounting optional No No Number of auxiliary contacts as normally closed contact No 0 Number of auxiliary contacts as change-over contact O 0 Switched-off indicator available No No With under voltage release No No Number of poles 3 No Position of connection for main current circuit Fornt side Type of control element Rocker lever Complete device with protection unit Position of connection for main current circuit Position of connection for main current circuit Position of connection for main current circuit	Rated permanent current lu	Α	400
Overload release current setting A 320 - 400 Adjustment range short-term delayed short-circuit release A 0 - 0 Adjustment range undelayed short-circuit release A 2400 - 4000 Integrated earth fault protection B 2400 - 4000 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 Number of auxiliary contacts as normally closed contact No 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 Rocker lever Motor drive integrated No Motor drive optional No	Rated voltage	V	690 - 690
Adjustment range short-term delayed short-circuit release Adjustment range undelayed short-circuit release Adjustment range undelayed short-circuit release Integrated earth fault protection Type of electrical connection of main circuit Device construction Bevice construction Built-in device fixed built-in technique Built-i	Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	36
Adjustment range undelayed short-circuit release Integrated earth fault protection Type of electrical connection of main circuit Device construction Suitable for DIN rail (top hat rail) mounting DIN	Overload release current setting	Α	320 - 400
Integrated earth fault protection Type of electrical connection of main circuit Device construction Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as normally closed contact Number of auxiliary contacts	Adjustment range short-term delayed short-circuit release	Α	0 - 0
Type of electrical connection of main circuit Device construction Device construction Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of indicator available With under voltage release Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional	Adjustment range undelayed short-circuit release	Α	2400 - 4000
Device construction Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of poles No No No No No No No No No N	Integrated earth fault protection		No
Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Number of puxiliary contacts as change-over contact Number of poles No	Type of electrical connection of main circuit		Screw connection
DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact No Switched-off indicator available No No Number of poles No No No No No No No No No N	Device construction		Built-in device fixed built-in technique
Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact No Number of indicator available No No Number of poles No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated No No No Yes Motor drive optional	Suitable for DIN rail (top hat rail) mounting		No
Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Switched-off indicator available With under voltage release No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional	DIN rail (top hat rail) mounting optional		No
Number of auxiliary contacts as change-over contact Switched-off indicator available With under voltage release No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional	Number of auxiliary contacts as normally closed contact		0
Switched-off indicator available With under voltage release No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional	Number of auxiliary contacts as normally open contact		0
With under voltage release No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive optional No No No No No No No No No N	Number of auxiliary contacts as change-over contact		0
Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive optional Substitution of connection for main current circuit Rocker lever Yes No Yes Yes	Switched-off indicator available		No
Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive optional Front side Rocker lever Yes No Yes Yes	With under voltage release		No
Type of control element Complete device with protection unit Motor drive optional Rocker lever Yes No Yes	Number of poles		3
Complete device with protection unit Notor drive integrated Motor drive optional No Yes Yes Yes	Position of connection for main current circuit		Front side
Motor drive integrated No Yes	Type of control element		Rocker lever
Motor drive optional Yes	Complete device with protection unit		Yes
	Motor drive integrated		No
Degree of protection (IP) IP20	Motor drive optional		Yes
	Degree of protection (IP)		IP20

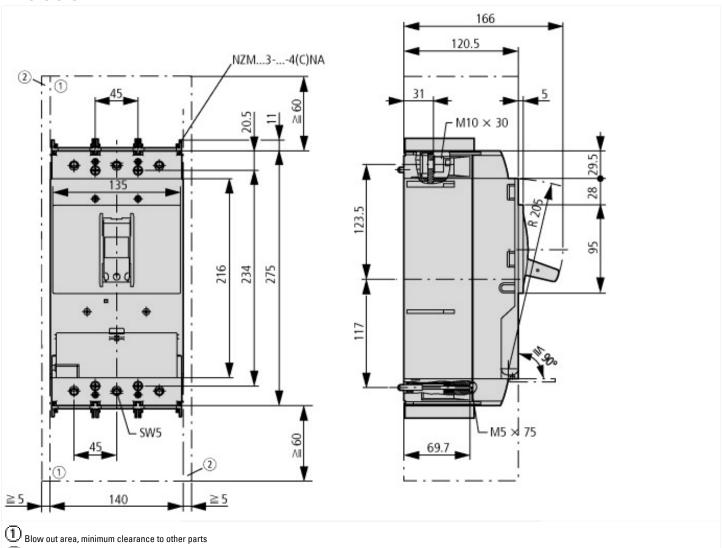
Characteristics



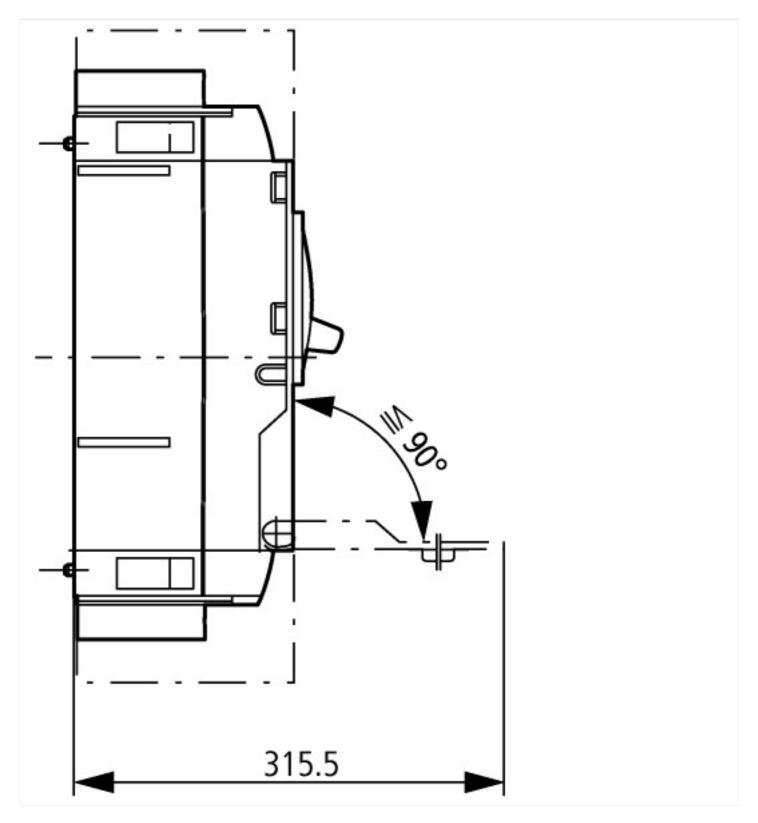




Dimensions



(2) Minimum clearance to adjacent parts



Additional product information (links)

IL01208013Z LZMC3 circuit-breaker, LN3 switch-disconnector

IL01208013Z LZMC3 circuit-breaker, LN3 switch-disconnector

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01208013Z2012_02.pdf