# **DATASHEET - LZMB1-A32-I**



Circuit-breaker, 3 p, 32A

Part no. LZMB1-A32-I Catalog No. LZMB1-A32-I



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			LZM1
Number of poles			3 pole
Standard equipment			Box terminal
Switching capacity			
400/415 V 50 Hz	I <sub>cu</sub>	kA	25
Rated current = rated uninterrupted current			
Rated current = rated uninterrupted current	$\boldsymbol{I}_n = \boldsymbol{I}_u$	Α	32
Setting range			
Overload trip			
中	I <sub>r</sub>	A	25 - 32
Short-circuit releases			
Non-delayed	$I_i = I_n \times \dots$		350 A fixed

### **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
Weight	kg	1.05
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

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		as required
		Later Call HMALL is a 1990 the investment of
		In the area of the HMI devices: IP20 (basic protection type)
		with insulating surround: IP40with door coupling rotary handle: IP66
		Tunnel terminal: IP10 Phase isolator and band terminal: IP00
	Α	32
U <sub>imp</sub>		
	V	6000
	V	6000
U <sub>e</sub>	V AC	440
		III/3
Ui	V	690
	٧	≦ 440
I <sub>cm</sub>		
I <sub>cm</sub>	kA	63
I <sub>cm</sub>	kA	53
I <sub>cm</sub>	kA	53
	kA	
		30
		25
I <sub>cu</sub>		25
Ics		
I <sub>cs</sub>	kA	30
I <sub>cs</sub>	kA	25
I <sub>cs</sub>	kA	18.5
		Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit-breaker.
		A
I <sub>e</sub>	Α	
l <sub>o</sub>	Α	160
		125
'e	^	123
	^	22
		32
		32
l <sub>e</sub>	Α	32
Operations		20000
Operations		7500
Operations		10000
Operations		7500
	Ops/h	120
	ms	< 10
		Box terminal
		1 x (10 - 16)
	Ui  Icm Icm Icm Icm Icu Icu Icu Ics Ics Ics Ics Ics Operations Operations	Uimp       V         Ve       V AC         Ui       V         Icm       V         Icm       kA         Icu       kA         Icu       kA         Ics       kA         Ics       kA         Ics       kA         Ics       kA         Ie       A         Ie       A         Ie       A         Ie       A         Operations       Operations         Operations       Ops/h

Stranded		mm <sup>2</sup>	1 x (25 - 70) 2 x 25
Tunnel terminal			
Solid		mm <sup>2</sup>	1 x (16 - 95)
Stranded			
Stranded		$mm^2$	1 x (25 - 95)
Bolt terminal and rear-side connection			
Direct on the switch			
Solid		mm <sup>2</sup>	1 x (10 - 16) 2 x (6 - 16)
Stranded		mm <sup>2</sup>	1 x (25 - 70) 2 x 25
Al conductors, Cu cable			
Tunnel terminal			
Solid		mm <sup>2</sup>	1 x 16
Stranded			
Stranded		mm <sup>2</sup>	1 x (25 - 95)
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			M8
Direct on the switch			
	min.	mm	12×5
	max.	mm	16 x 5
Control cables			
		mm <sup>2</sup>	1 x (0.75 - 2.5) 2 x (0.75 - 1.5)

# Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	32
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	9.30816
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 7.0**

Number of auxiliary contacts as change-over contact

Position of connection for main current circuit

Complete device with protection unit

With switched-off indicator

With under voltage release

Type of control element

Motor drive integrated

Degree of protection (IP)

Motor drive optional

Number of poles

Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228)				
Electric engineering, automation, process control engineering / Low-voltage swiprotection (ecl@ss10.0.1-27-37-04-09 [AJZ716013])	tch technology /	Circuit br	eaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system	
Rated permanent current lu		Α	32	
Rated voltage		V	690 - 690	
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz		kA	25	
Overload release current setting		Α	25 - 32	
Adjustment range short-term delayed short-circuit release		Α	0 - 0	
Adjustment range undelayed short-circuit release		Α	350 - 350	
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	

0

No

No

3

No

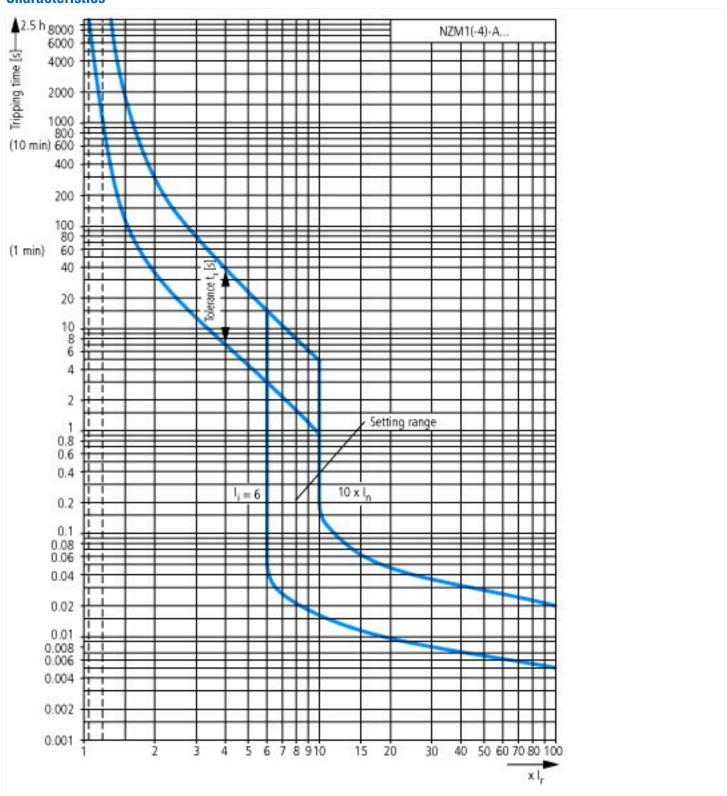
No

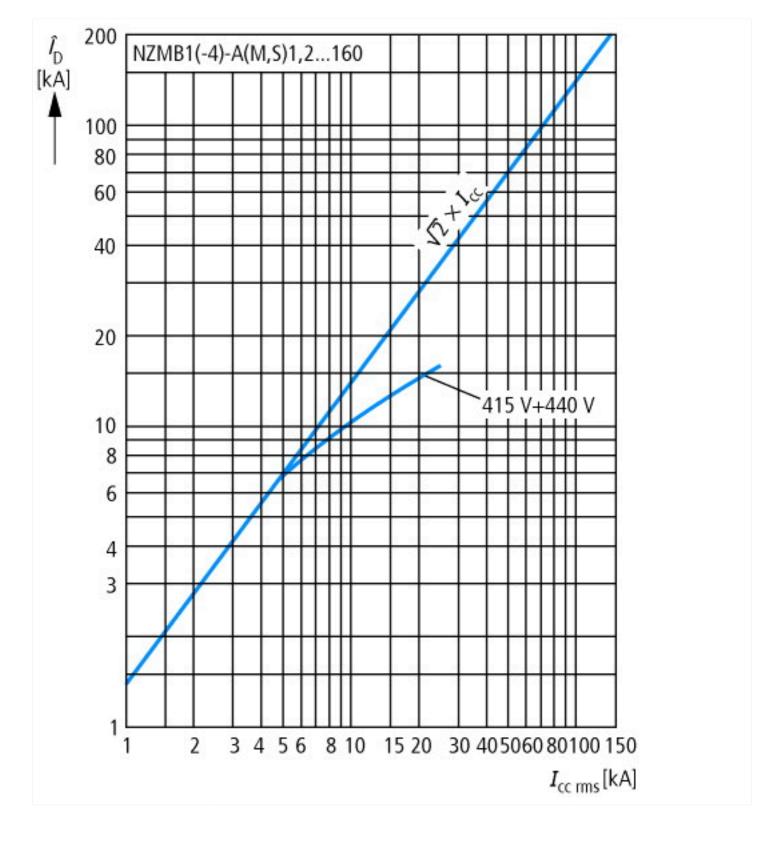
IP20

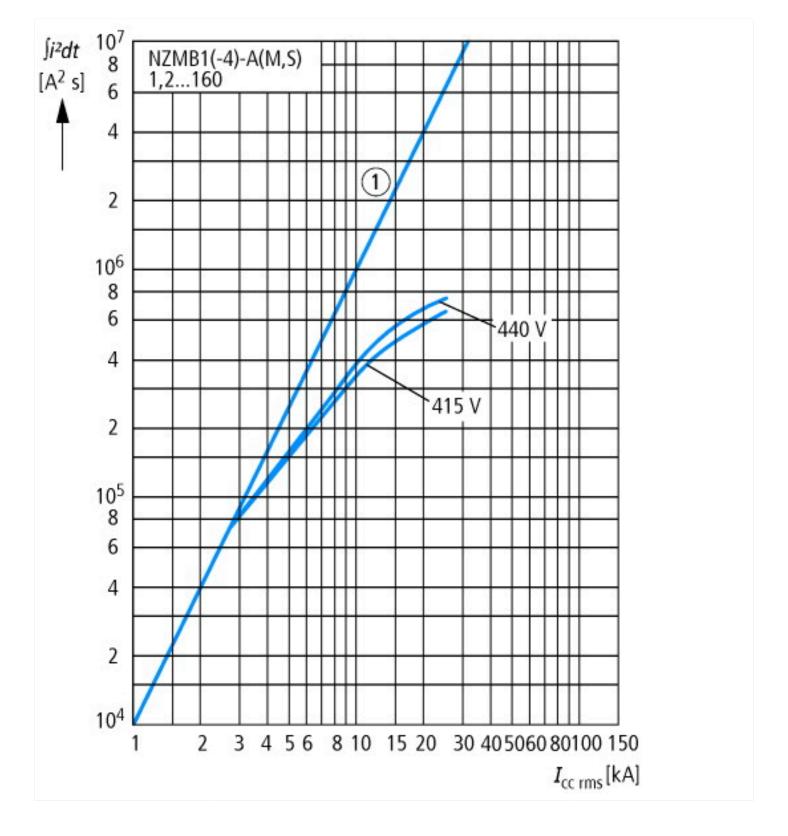
Front side

Rocker lever Yes

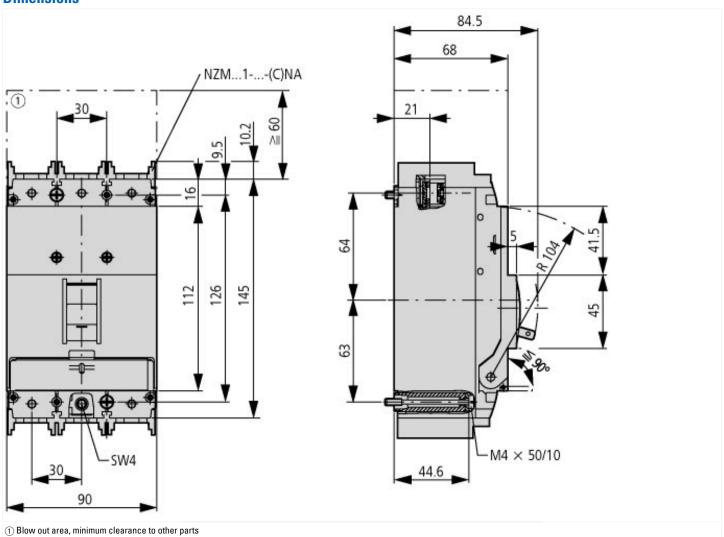
#### **Characteristics**

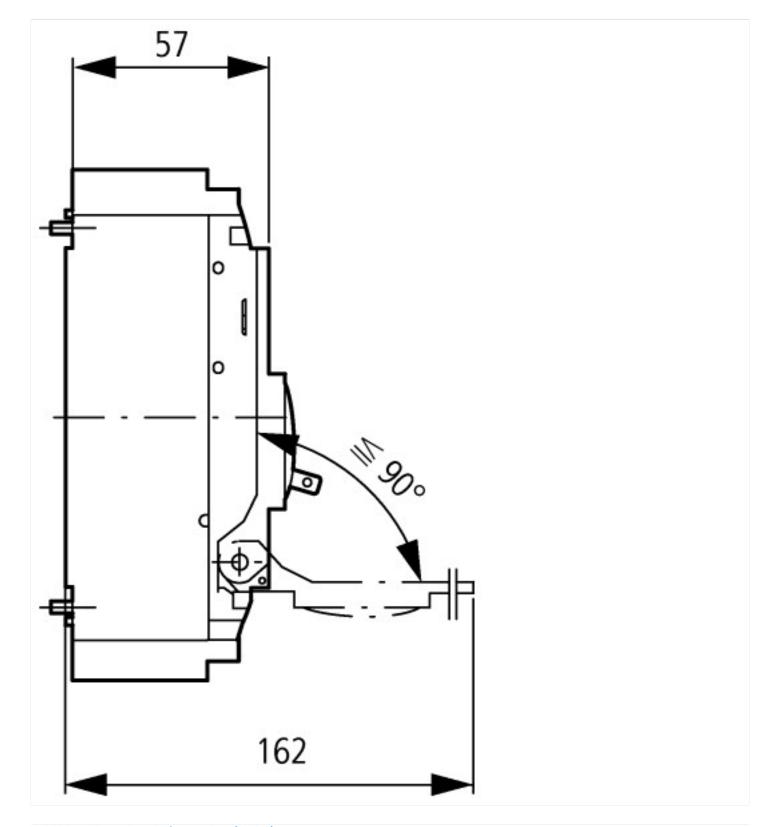






# **Dimensions**





# **Additional product information (links)**

IL01203007Z circuit-breaker LZM.1(-4), switch-disconnector LN1

IL01203007Z circuit-breaker LZM.1(-4), switch-disconnector LN1 ftp://ftp.moeller.net/DOCUMENTATION/AWA\_INSTRUCTIONS/IL01203007Z2017\_05.pdf