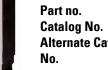
DATASHEET - NZM1-XFI300R



Earth-fault release, 300mA, 3p, right



NZM1-XFI300R 104604 Alternate Catalog NZM1-XFI300R



Similar to illustration

Delivery program

Description	Earth-fault release to IEC/EN 60947-2 not UL/CSA approved Suitable for use in three- and single-phase systems Pulse-current sensitive type A according to core-balance principle For 3 pole NZM1 circuit-breakers and N1 switch-disconnectors Supply voltage-dependent Ue = $200 - 415$ V 50/60 Hz Control knobs, sealable. Fitted on the right side up to I _n = 160 A at I _{Cu} = 50 kA			
Contact sequence	\sim			
For use with				
For use with	NZM1 N(S)1			
Pole	3 pole			
Notes				
With $I_{\bigtriangleup n}$ = 0.03 A: delay time t_v always fixed setting at 10 ms.				
Alarm message > 30 % I $_{\Delta n}$ by yellow LED.				
Trip indication max. 2 auxiliary contacts (HIAFI) can be fitted by user: N/O = M22-K01, N/C = M22-K10 are reset via the reset toggle lever.				
If the trip-indicating auxiliary contact in the fault current block is used, the N/C contacts operates as a N/O contact and the N/C contact operates as an N/O contact.				
Double contact not permissible.				
Not in combination with insulated enclosure or main switch assembly kit for side panel mounting with mounting bracket				
NZM1-XFLR can not be used in combination with lower cover NZM1-XUSA.				
NZM1-XFIU not in combination with shunt or undervoltage release, early-make auxiliary contacts.				
Rated ultimate short-circuit breaking capacity is determined by the fitted NZM1, NS1.				
If a switch-disconnector N1 is applied by the back-up fuse to be used $ ightarrow$ Technical data.				

Technical data

Electrical

Standards			IEC/EN 60947-2 IEC/EN 60947-2 annex B
Sensitivity			Pulse-current sensitive as per core-balance principle (type A)
Min. operating voltage	Ue	V	
or detection of fault currents type A/AC			80 V (dependent on mains voltage)
Suitability for the application			In three- and single-phase systems
Rated operational voltage	U _e	V AC	200415 (3~)
Rated frequency	f	Hz	50/60
Number of poles			3-pole
Rated current range	I _n	А	15160
Rated fault currents	I _{Δn}	А	0.3
Detection range of the fault current			50/60 Hz
Rated ultimate short-circuit making capacity and rated ultimate short-circuit breaking capacity	$I_{\Delta m}$	A	= I _{CU}
Mechanical shock resistance (IEC 60068-2-27)			20 (half-sinusoidal shock 20 ms)

Lifespan, mechanical (50 % with fault current)	Operations		20000
Mechanical			
Standard front dimension		mm	45
Mounting			on the right side
Mounting position			Vertical and 90° in all directions
Supply			
			NZM1 from above
Degree of protection			IP20 in the operating component area
Ambient temperature			-5 - +40
Terminal capacity			
Flexible without ferrule		mm ²	wie NZM1 Standardklemme
flexible with ferrules		mm ²	such as NZM1 standard terminal

Design verification as per IEC/EN 61439

Technical data for design verification		
Operating ambient temperature min.	°C	-5
Operating ambient temperature max.	°C	40
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 b 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

Low-voltage industrial components (EG000017) / Residual current release for power circuit breaker (EC001021)

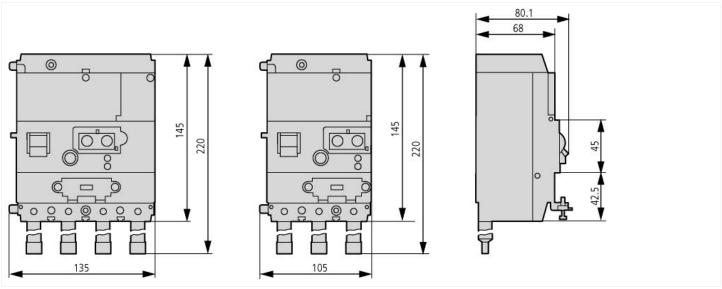
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Fault current switch for circuit breakers (ecl@ss10.0.1-27-37-04-11 [AKF009013]) Rated control supply voltage Us at AC 50HZ ٧ 200 - 415 v 200 - 415 Rated control supply voltage Us at AC 60HZ ٧ 0 - 0 Rated control supply voltage Us at DC Rated fault current А 0.3 - 0.3 300 Max. power on-delay time ms

Delay adjustable

03/15/2020

No

Dimensions



Additional product information (links)

IL01219028Z (AWA1230-2331) Residual current device NZM1, mounting right

IL01219028Z (AWA1230-2331) Residual current ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01219028Z2016_02.pdf device NZM1, mounting right