DATASHEET - NZM2-4-XFIA30



Earth-fault release 30mA, AC/DC sensitive, 4p

Part no. Catalog No.

NZM2-4-XFIA30 292345



Delivery program

Description	Core-balance principle with AC/DC sensitivity (in range 0 - 100 kHz) For 4 pole NZM2-4 circuit-breakers and N2-4 switch-disconnectors Internal power supply Us = 50 - 400 V				
Contact sequence	\sim				
Contact sequence					
For use with					
For use with	NZM2-4 N2-4				
Pole	4 pole				
Notes					
Observe response threshold dependence on frequency!					
See "Frequency response" characteristic curve					
Auxiliary contacts (1 N/O, 1N/C integrated) are reset via the reset button.					
Not in combination with plug-in units, insulated enclosure or main switch assembly kit for side panel mounting with mounting bracket.					
Rated ultimate short-circuit breaking capacity is determined by the fitted NZM2.					
If a switch-disconnector N2 is applied by the back-up fuse to be used $ ightarrow$ Technical data.					

Technical data

Electrical
0

Standards			IEC/EN 60947-2 IEC/EN 60947-2 annex B		
Sensitivity			Sensitive to AC/DC (type B)		
Min. operating voltage	Ue	V			
or detection of fault currents type A/AC			0 V independent of mains voltage		
or detection of fault currents type B			50 V (dependent on mains power)		
Suitability for the application			In three- and single-phase systems		
Rated operational voltage	U _e	V AC	50400 (3~)		
Rated frequency	f	Hz	50		
Number of poles			4-pole		
Rated current range	I _n	А	15250		
Rated fault currents	I _{Δn}	А	0.03		
Detection range of the fault current			with AC voltage: 0 - 100 kHz with pulsed DC voltage: 50 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		≧ 2 000		
Mechanical					
Standard front dimension		mm	96		
Mounting			Bottom		
Mounting position			Vertical and 90° in all directions		
Supply					
			Bottom		
Degree of protection			IP20 in the operating component area		
Ambient temperature			-25 - +70		

Flexible without ferrule mm ² wie NZM2 Standardanschluss flexible with ferrules mm ² With NZM2 standard connection	Terminal capacity		
flexible with ferrules mm ² With NZM2 standard connection	Flexible without ferrule	mm ²	wie NZM2 Standardanschluss
	flexible with ferrules	mm ²	With NZM2 standard connection

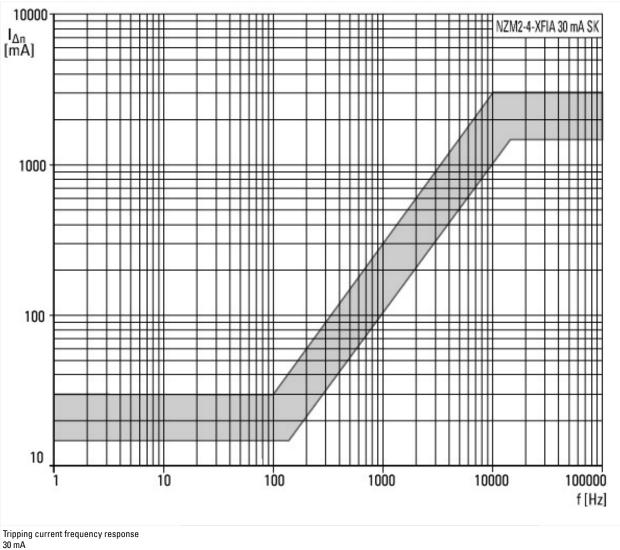
Technical data for design verification		
Operating ambient temperature min.	°C	-25
Operating ambient temperature max.	°C	70
IEC/EN 61439 design verification		
10.2 Strength of materials and parts		
10.2.2 Corrosion resistance		Meets the product standard's requirements.
10.2.3.1 Verification of thermal 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 observed.
10.12 Electromagnetic compatibility		Is the panel builder's responsibility. The specifications for the switchgear must 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)

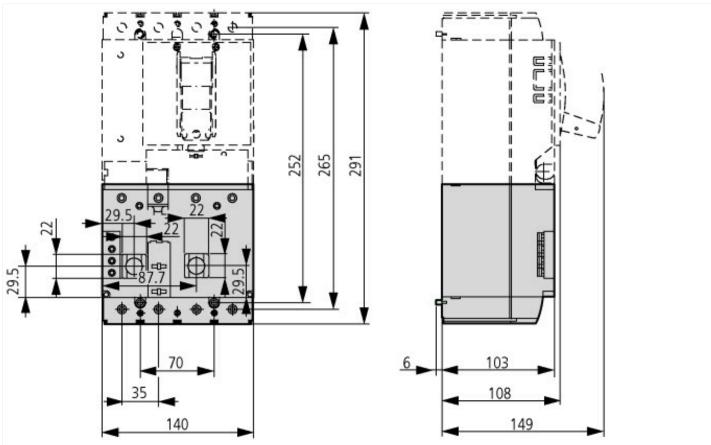
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Fault current switch for circuit breakers (ecl@ss10.0.1-27-37-04-11 [AKF009013]) ٧ Rated control supply voltage Us at AC 50HZ $\,$ 50 - 400 Rated control supply voltage Us at AC 60HZ ٧ 50 - 400 Rated control supply voltage Us at DC ٧ 0 - 0 Rated fault current А 0.03 - 0.03 Max. power on-delay time 30 ms No Delay adjustable ٧ 400 Max. rated operation voltage Ue





SK part no.





Additional product information (links)

IL01210008Z (AWA1230-2100) Residual-current protection module

IL01210008Z (AWA1230-2100) Residual-current ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01210008Z2017_03.pdf protection module