

Circuit-breaker 3p, 1000A, AF

Part no. IZMX16N3-U10W Article no. 123114



Delivery programme

Product range			Air circuit-breakers/switch-disconnectors
Product range			Open circuit-breakers
Current Range			Up to 4000 A
Protective function			Universal protection
nstallation type			Withdrawable
Construction size			IZMX16
telease system			Electronic release
Standard/Approval			IEC
lumber of poles			3 pole
Degree of Protection			IP20, IP55 with protective cover, IP41 door sealing frame
			suitable for zone selectivity suitable for communication integrated system monitor and 4-character display optionally fittable by user with comprehensive accessories
tated current = rated uninterrupted current	$I_n = I_u$	Α	1000
Breaking capacity Icu = Ics to 440 V 50/60 Hz	I _{cu}	kA	50
Breaking capacity Ics to 440 V 50/60 Hz	I _{cs}	kA	50
overload release, min.	I _r	Α	500
overload release, max.	I _r	Α	1000
lon-delayed	$I_i = I_n \times \dots$		2 - 12, OFF
Delayed	$I_{sd} = I_r \times \dots$		2 - 10
lotes			
Main terminals not included, need to be ordered separately.			
lote concerning the product			

Technical data

Cassette needs to be ordered separately.

General

General			
Standards			IEC/EN 60947
Ambient temperature			
Storage	θ	°C	-25 - +70 (device with LCD-display -20 - +70)
Operating (open)		°C	-25 - +70 (device with LCD-display -20 - +70)
Mounting position			30° 30°
			30° 30°
Utilization category			В
Degree of Protection			IP20, IP55 with protective cover, IP41 door sealing frame
Direction of incoming supply			as required

Main conducting paths

Main conducting paths			
Rated current = rated uninterrupted current	$I_n = I_u$	Α	1000
Rated uninterrupted current at 50 °C	l _u	Α	1000
Rated uninterrupted current at 60 °C	Iu	Α	1000
Rated uninterrupted current at 70 °C	Iu	Α	1000
Rated impulse withstand voltage	U _{imp}	V AC	12000
Rated operational voltage	U _e	V AC	690
Use in IT electrical power networks up to U = 440 V	I _{IT}	kA	23
Overvoltage category/pollution degree			III/3
Rated insulation voltage	Ui	V	1000
Switching capacity			
Rated short-circuit making capacity	I _{cm}		
up to 440 V 50/60 Hz	I _{cm}	kA	105
up to 690 V 50/60 Hz	I _{cm}	kA	88
Rated short-time withstand current 50/60 Hz			
t = 1 s	I _{cw}	kA	42
Rated short-circuit breaking capacity I _{cn}	I _{cn}		
IEC/EN 60947 operating sequence I _{cu} 0-t-C0			
up to 240 V 50/60 Hz	I _{cu}	kA	85
up to 440 V 50/60 Hz	I _{cu}	kA	50
up to 690 V 50/60 Hz			42
	I _{cu}	kA	42
IEC/EN 60947 operating sequence I _{cs} 0-t-C0-t-C0			
up to 240 V 50/60 Hz	I _{cs}	kA	50
up to 440 V 50/60 Hz	I _{cs}	kA	50
up to 690 V 50/60 Hz	I _{cs}	kA	42
Operating times			
Closing delay via spring release		ms	30
Total opening delay via shunt release		ms	25
Total opening delay via undervoltage release		ms	50
Total opening delay on non-delayed short-circuit release (up to complete arc		ms	25
quenching)			
Lifespan	0 : 1:	S	40500
Lifespan, mechanical	Switching cycles (ON/ OFF)		12500
Lifespan, mechanical with maintenance	Switching cycles (ON/ OFF)		20000
Lifespan, electrical	Switching cycles (ON/ OFF)		10000
Lifespan, electrical with maintenance	Switching cycles (ON/OFF)		10000
Maximum operating frequency	Operations/h		60
Heat dissipation at rated current I _n	,		
Withdrawable units (switch with cassette)		W	125
Weight			
Withdrawable			
3-pole		kg	28
4-pole		kg	33
Cassette			
3 pole		kg	18
4 pole		kg	21
Terminal capacities			
Copper bar			
Fixed mounting			

Black	mm	2 x 5 x 60
Withdrawable units		
Black	mm	2 x 5 x 60
		These are values used in separate switchgear. The actual values will depend on the temperature around the circuit-breaker, which is influenced by the ambient temperature, the degree of protection (IP), the mounting height, the partitions, and any external ventilation. Depending on the specific switchgear design, this may result in derating, which can then be compensated for by increasing the cross-sectional area. Temperature rise tests in the specific switchgear can provide specific and detailed information.
		Permissible continuous current for circuit-breakers operating in switchboards at various internal ambient temperatures. The switchboard's internal ambient temperature should be estimated using the calculation methods of IEC regulation.

Design verification as per IEC/EN 61439

I _n P _{vid}	A W °C °C	1000 125 -25
	w °C	125
P _{vid}	°C	
		-25
	°C	
		70
		Meets the product standard's requirements.
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		Does not apply, since the entire switchgear needs to be evaluated.
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		Does not apply, since the entire switchgear needs to be evaluated.
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		Is the panel builder's responsibility.
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		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
		Is the panel builder's responsibility. The specifications for the switchgear must b observed.
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		The device meets the requirements, provided the information in the instruction

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])

proteotion (conesson 27 or or or protein)		
Rated permanent current lu	Α	1000
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	50
Overload release current setting	Α	500 - 1000
Adjustment range short-term delayed short-circuit release	А	2000 - 10000
Adjustment range undelayed short-circuit release	Α	2000 - 12000

No
Rail connection
Built-in device slide-in technique (withdrawable)
No
No
0
0
2
Yes
No
3
Back side
Push button
Yes
No
Yes
IP20

Dimensions

