

Part no. Article no. IZMX16N4-U08F 123502



## Delivery programme

Product range			Air circuit-breakers/switch-disconnectors
Product range			Open circuit-breakers
Current Range			Up to 4000 A
Protective function			Universal protection
Installation type			Fixed
Construction size			IZMX16
Release system			Electronic release
Standard/Approval			IEC
Number of poles			4 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
Rated current = rated uninterrupted current	$\mathbf{I}_n = \mathbf{I}_u$	А	800
Breaking capacity Icu = Ics to 440 V 50/60 Hz	I <sub>cu</sub>	kA	50
Breaking capacity Ics to 440 V 50/60 Hz	I <sub>cs</sub>	kA	50
Overload release, min.	l <sub>r</sub>	А	400
Overload release, max.	l <sub>r</sub>	A	800
Non-delayed	$I_i = I_n \times \dots$		2 - 12, OFF
Delayed	$I_{sd} = I_r \times \dots$		2 - 10
Notes			
Main terminals not included, need to be ordered separately.			

### Technical data

General			
Standards			IEC/EN 60947
Ambient temperature			
Storage	9	°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			
Rated current = rated uninterrupted current	$I_n = I_u$	А	800

Rated uninterrupted current at 50 °C	l <sub>u</sub>	А	800
Rated uninterrupted current at 60 °C	l <sub>u</sub>	А	800
Rated uninterrupted current at 70 °C	l <sub>u</sub>	А	800
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	12000
Rated operational voltage	U <sub>e</sub>	V AC	690
Use in IT electrical power networks up to U = 440 V	IIT	kA	23
Overvoltage category/pollution degree			111/3
Rated insulation voltage	Ui	V	1000
Switching capacity	·		
Rated short-circuit making capacity	I <sub>cm</sub>		
up to 440 V 50/60 Hz	I <sub>cm</sub>	kA	105
up to 690 V 50/60 Hz	I <sub>cm</sub>	kA	88
Rated short-time withstand current 50/60 Hz			
t=1 s	I <sub>cw</sub>	kA	42
Rated short-circuit breaking capacity I <sub>cn</sub>			-
IEC/EN 60947 operating sequence I <sub>cu</sub> 0-t-CO	I <sub>cn</sub>		
		1.4	or .
up to 240 V 50/60 Hz	I <sub>cu</sub>	kA	85
up to 440 V 50/60 Hz	I <sub>cu</sub>	kA	50
up to 690 V 50/60 Hz	I <sub>cu</sub>	kA	42
IEC/EN 60947 operating sequence I <sub>cs</sub> 0-t-C0-t-C0			
up to 240 V 50/60 Hz	I <sub>cs</sub>	kA	50
up to 440 V 50/60 Hz	I <sub>cs</sub>	kA	50
up to 690 V 50/60 Hz	I <sub>cs</sub>	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		S	
Lifespan, mechanical	Switching cycles (ON/		12500
	OFF)		
Lifespan, mechanical with maintenance	Switching cycles (ON/ OFF)		20000
Lifespan, electrical	Switching		10000
	cycles (ON/ OFF)		
Lifespan, electrical with maintenance	Switching		10000
	cycles (ON/ OFF)		
Maximum operating frequency	Operations/h		60
Heat dissipation at rated current I <sub>n</sub>	operations/II		
		W	50
Fixed mounting Weight		vv	59
Fixed mounting			
3-pole		kg	19
4-pole		kg	24
Terminal capacities		Ū	
Copper bar			
Fixed mounting			
Black		mm	2 x 5 x 50
Withdrawable units			
Black		mm	2 x 5 x 50
			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 crosssectional 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

vid W °C °C	800 59 -25 70 Meets the product standard's requirements.
vid W °C	59 -25 70
°C	-25 70
	70
<b>℃</b>	
	Meets the product standard's requirements.
	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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	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 be observed.
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#### **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	А	800
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	50
Overload release current setting	А	400 - 800
Adjustment range short-term delayed short-circuit release	А	1600 - 8000
Adjustment range undelayed short-circuit release	А	1600 - 9600
Integrated earth fault protection		No
Type of electrical connection of main circuit		Rail connection
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		No

Number of conditions contacts as many all sales of contact	
Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0
Number of auxiliary contacts as change-over contact	2
Switched-off indicator available	Yes
With under voltage release	No
Number of poles	4
Position of connection for main current circuit	Back side
Type of control element	Push button
Complete device with protection unit	Yes
Motor drive integrated	No
Motor drive optional	Yes
Degree of protection (IP)	IP20

# Dimensions

