

Part no. Article no. IZMX16B4-V08F 123472



## Delivery programme

Product range			Air circuit-breakers/switch-disconnectors
Product range			Open circuit-breakers
Current Range			Up to 4000 A
Protective function			Selective operation
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 optionally fittable by user with comprehensive accessories
Rated current = rated uninterrupted current	$I_n = I_u$	А	800
Breaking capacity Icu = Ics to 440 V 50/60 Hz	l <sub>cu</sub>	kA	42
Breaking capacity Ics to 440 V 50/60 Hz	l <sub>cs</sub>	kA	42
Overload release, min.	l <sub>r</sub>	А	400
Overload release, max.	l <sub>r</sub>	А	800
Non-delayed	l <sub>i</sub> = l <sub>n</sub> x		2 - 12, OFF
Delayed	$I_{sd} = I_r x \dots$		2 - 10
Notes Main terminals not included, need to be ordered separately.			

# **Technical data**

		IEC/EN 60947
9	°C	-40 - +70
	°C	-25 - +70
		30° 30°
		В
		IP20, IP55 with protective cover, IP41 door sealing frame
		as required
$I_n = I_u$	А	800
lu	А	800
	$I_n = I_u$	°C

Rated uninterrupted current at 0°CIµA800Rated uninterrupted current at 0°CIµA800Rated interrupted current at 0°CUµVAC1200Rated operational voltageUµVAC600Use in IT electrical power networks up to U = 440 VIrKA83Overvoltage categon/pollution degreeUµV1000Switching capacityUµV1000Switching capacityIrKA88Wat 00 V5060 HzIrKA88Rated short-circuit making capacity IrIrKA88Rated short-circuit presking capacity IrIrKA88Rated short-circuit presking capacity IrIrKA88Rated short-circuit presking capacity IrIrKA88Rated short-circuit presking capacity IrIrKA88It = 1 SIrIrIrIrIt = 1 SIrIrIrIrIt = 1 SIrIrIrIrIt = 0 600 V 5060 HzIrIrIrIrIt = 0 600 V 5060 HzIrIrIrIr	
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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 quenching)     ms     25	
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Lifeenen meshaniaal	
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Lifespan, mechanical with maintenance Switching 20000 cycles (ON/ OFF)	
Lifespan, electrical Switching cycles (ON/ OFF) 0FF	
Lifespan, electrical with maintenance Switching cycles (ON/ OFF)	
Maximum operating frequency Operations/h 60	
Heat dissipation at rated current In	
Fixed mounting W 59	
Weight	
Fixed mounting	
3-pole kg 19	
4-pole kg 24	
Terminal capacities	
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 valu the temperature around the circuit-breaker, which is influence temperature, the degree of protection (IP), the mounting heigh any external ventilation. Depending on the specific switchgear result in derating, which can then be compensated for by incre	d by the ambient t, the partitions, and

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

Technical data for design verification			
Rated operational current for specified heat dissipation	In	A	800
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	59
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 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 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	42
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 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



