

Part no. Article no. IZMX16B4-A06W 123201



Delivery program

Product range			Air circuit-breakers/switch-disconnectors
Product range			Open circuit-breakers
Current Range			Up to 4000 A
Protective function			System protection
Installation type			Withdrawable
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
			optionally fittable by user with comprehensive accessories
Rated current = rated uninterrupted current	$I_n = I_u$	А	630
Bemessungsgrenzkurzschlussausschaltvermögen bis 440V/690V 42/42	l _{cu}	kA	42
Bemessungsbetriebskurzschlussausschaltvermögen bis 440V/690V 42/42	I _{cs}	kA	42
Overload release, min.	l _r	А	315
Overload release, max.	l _r	А	630
Non-delayed	l _i = l _n x		2 - 12
Notes			
Main terminals must be separately ordered.			
Note concerning the product			
Cassette needs to be ordered separately.			

Technical data

General			
Standards			IEC/EN 60947
Ambient temperature			
Storage	9	°C	-40 - +70
Operating (open)		°C	-25 - +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	630
Rated uninterrupted current at 50 °C	l _u	А	630
Rated uninterrupted current at 60 °C	lu	А	630

Rated uninterrupted current at 70 °C	l _u	A	630
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	IIT	kA	23
Overvoltage category/pollution degree			111/3
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	88
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} O-t-CO			
up to 240 V 50/60 Hz	l _{cu}	kA	42
up to 440 V 50/60 Hz	I _{cu}	kA	42
up to 690 V 50/60 Hz	I _{cu}	kA	42
IEC/EN 60947 operating sequence I _{cs} 0-t-C0-t-C0	·cu		-
up to 240 V 50/60 Hz		kA	42
•	I _{cs}		
up to 440 V 50/60 Hz	I _{cs}	kA	42
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 quenching)		ms	25
Lifespan		S	
Lifespan, mechanical	Switching		12500
	cycles (ON/ OFF)		
Lifespan, mechanical with maintenance	Switching cycles (ON/ OFF)		20000
Lifespan, electrical	Switching cycles (ON/ OFF)		10000
Lifespan, electrical with maintenance	Switching cycles (ON/		10000
•	OFF)		
Maximum operating frequency	Operations/h		60
Heat dissipation at rated current In			
Withdrawable units (switch with cassette)		W	50
Weight Withdrawable			
3-pole		kg	28
4-pole		kg	33
Cassette		9	
3 pole		kg	18
4 pole		kg	21
Terminal capacities		··· J	
Copper bar			
Fixed mounting			
Black		mm	2 × 5 × 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

observed.				
Equipment heat dissipation, current-dependent Puese W Operating ambient temperature min. ************************************	Technical data for design verification			
Operating ambient temperature min. C 25 Operating ambient temperature max. C 70 102.5 trength of materials and parts C 70 102.2 Corrusion resistance Meets the product standard's requirements. C 102.3.1 Verification of tremad stability of enclosures Meets the product standard's requirements. C 102.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Meets the product standard's requirements. Meets the product standard's requirements. 102.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Meets the product standard's requirements. 102.3 Verification of Assective MLES Does not apply, since the entre switchgear needs to be evaluated. 102.2 Inscriptions Meets the product standard's requirements. 103.0 Segree of protection of ASSEMBLIES Meets the product standard's requirements. 103.1 Segree of protection against electric shock Does not apply, since the entre switchgear needs to be evaluated. 104.2 Reserval a conductors E Meets the product standard's requirements. 103.0 Segree of protection of switching devices and components E Meets the product standard's requirements.	Rated operational current for specified heat dissipation	In	А	630
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	10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
	10.13 Mechanical function			

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	630
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	42
Overload release current setting	А	315 - 630
Adjustment range short-term delayed short-circuit release	А	0 - 0
Adjustment range undelayed short-circuit release	А	1260 - 7560
Integrated earth fault protection		No
Type of electrical connection of main circuit		Rail connection
Device construction		Built-in device slide-in technique (withdrawable)
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