





Circuit-breaker 4p, 1000A, withdrawable

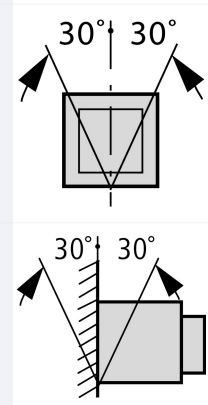
Part no. IZMX16H4-P10W
Catalog No. 123303
EL-Nummer (Norway) 4357222

Delivery program

Product range			Air circuit-breakers/switch-disconnectors
Product range			Open circuit-breakers
Current Range			Up to 4000 A
Protective function			Professional protection
Installation type			Withdrawable
			Cassette must be separately ordered.
			IZMX-DTP-PTM external voltage measuring module required
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 with integrated system monitor with integrated test possibility with graphic LCD color display optionally fittable by user with comprehensive accessories
Rated current – rated uninterrupted current	$I_n = I_u$	A	1000
up to 440 V 50/60 Hz	I_{cu}	kA	65
up to 440 V 50/60 Hz	I_{cs}	kA	50
Overload release, min.	I_r	A	500
Overload release, max.	I_r	A	1000
Non-delayed	$I_i = I_n \times \dots$		2 - 12, OFF
			
Delayed	$I_{sd} = I_r \times \dots$		2 - 10
			

Technical data

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			
Utilization category			B
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	$I_n = I_u$	A	1000
Rated uninterrupted current at 50 °C	I_u	A	1000
Rated uninterrupted current at 60 °C	I_u	A	1000
Rated uninterrupted current at 70 °C	I_u	A	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	U_i	V	1000

Switching capacity

Rated short-circuit making capacity	I_{cm}		
up to 440 V 50/60 Hz	I_{cm}	kA	136
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	I_{cu}	kA	85
up to 440 V 50/60 Hz	I_{cu}	kA	65
up to 690 V 50/60 Hz	I_{cu}	kA	42
IEC/EN 60947 operating sequence I_{cs} O-t-CO-t-CO			
up to 240 V 50/60 Hz	I_{cs}	kA	65
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 quenching)		ms	25
Lifespan		S	
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			
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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.
Notes			IZMX-DTP-PTM external voltage measuring module required

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	1000
Equipment heat dissipation, current-dependent	P_{vid}	W	125
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 I_u		A	1000
Rated voltage		V	690 - 690
Rated short-circuit breaking capacity I_{cu} at 400 V, 50 Hz		kA	65
Overload release current setting		A	500 - 1000

Adjustment range short-term delayed short-circuit release	A	2000 - 10000
Adjustment range undelayed short-circuit release	A	2000 - 12000
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