

Circuit-breaker 4p, 630A, fixed

Part no. IZMX16H4-A06F Article no. 123516



Delivery programme			
Product range			Air circuit-breakers/switch-disconnectors
Product range			Open circuit-breakers
Current Range			Up to 4000 A
Protective function			System 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
			optionally fittable by user with comprehensive accessories
Rated current = rated uninterrupted current	$I_n = I_u$	Α	630
Breaking capacity Icu = Ics to 440 V 50/60 Hz	I _{cu}	kA	65
Breaking capacity Ics to 440 V 50/60 Hz	I _{cs}	kA	50
Overload release, min.	I _r	Α	315
Overload release, max.	I _r	Α	630
Non-delayed I	$I_i = I_n x \dots$		2 - 12
Notes			
Main terminals must be separately ordered.			

Technical data

Abbient temperature Storage 9 °C 40 + 70 - 25 + 70 Mounting position Mounting position Williastion category Degree of Protection Direction of incoming supply Main conducting paths Rated current = rated uninterrupted current Rated uninterrupted current at 90 °C Rated uninterrupted current at 60 °C Rated uninterrupted current at 60 °C Rated uninterrupted current at 60 °C Rated uninterrupted current at 70 °C 40 + 70 - 70 + 70 - 70	General			
Storage Operating (open) Mounting position Mounting position Utilization category Degree of Protection Direction of incoming supply Main conducting paths Rated current = rated uninterrupted current Rated uninterrupted current at 50 °C Rated uninterrupted current at 70 °C Rated uninterru	Standards			IEC/EN 60947
Operating (open) Mounting position Willization category Degree of Protection Direction of incoming supply Wain conducting paths Rated current = rated uninterrupted current In = I_u A 630 Rated uninterrupted current at 60 °C Iu A 630 Rated uninterrupted current at 70 °C Iu A 630 Rated uninterrupted current at 70 °C Iu A 630 Rated uninterrupted current at 70 °C Iu A 630 Rated uninterrupted current at 70 °C Iu A 630	Ambient temperature			
Mounting position Comparison	Storage	9	°C	-40 - +70
Utilization category Degree of Protection Direction of incoming supply Valin conducting paths Rated uninterrupted current at 50 °C Rated uninterrupted current at 60 °C Rated uninterrupted current at 60 °C Rated uninterrupted current at 70 °C	Operating (open)		°C	-25 - +70
Utilization category Degree of Protection Direction of incoming supply Main conducting paths Rated current = rated uninterrupted current Rated uninterrupted current at 50 °C Rated uninterrupted current at 60 °C Rated uninterrupted current at 60 °C Rated uninterrupted current at 70 °C	Mounting position			30° 30°
Degree of Protection Direction of incoming supply Main conducting paths Rated current = rated uninterrupted current at 50 °C Rated uninterrupted current at 60 °C Rated uninterrupted current at 70 °C				30° 30°
Direction of incoming supply Main conducting paths Rated current = rated uninterrupted current In = Iu A 630 Rated uninterrupted current at 50 °C Iu A 630 Rated uninterrupted current at 60 °C Iu A 630 Rated uninterrupted current at 70 °C Iu A 630	Utilization category			В
Main conducting paths Rated current = rated uninterrupted current In = Iu A 630 Rated uninterrupted current at 50 °C Iu A 630 Rated uninterrupted current at 60 °C Iu A 630 Rated uninterrupted current at 70 °C Iu A 630	Degree of Protection			IP20, IP55 with protective cover, IP41 door sealing frame
Rated current = rated uninterrupted current In = Iu A 630 Rated uninterrupted current at 50 °C Iu A 630 Rated uninterrupted current at 60 °C Iu A 630 Rated uninterrupted current at 70 °C Iu A 630	Direction of incoming supply			as required
Rated uninterrupted current at 50 °C Iu A 630 Rated uninterrupted current at 60 °C Iu A 630 Rated uninterrupted current at 70 °C Iu A 630	Main conducting paths			
Rated uninterrupted current at 60 °C I _u A 630 Rated uninterrupted current at 70 °C I _u A 630	Rated current = rated uninterrupted current	$I_n = I_u$	Α	630
Rated uninterrupted current at 70 °C I _u A 630	Rated uninterrupted current at 50 °C	I _u	Α	630
	Rated uninterrupted current at 60 °C	Iu	Α	630
Rated impulse withstand voltage U _{imp} V AC 12000	Rated uninterrupted current at 70 °C	Iu	Α	630
	Rated impulse withstand voltage	U_{imp}	V AC	12000

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rations/h		60
	W	36
	•	19
	kg	24
	mm	2 x 5 x 50
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	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 cross-sectional area. Temperature rise tests in the specific switchgear can provide specific and detailed information.
		W kg

Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	630
Equipment heat dissipation, current-dependent	P _{vid}	W	36
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])

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Rated permanent current lu	А	630
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	65
Overload release current setting	Α	315 - 630
Adjustment range short-term delayed short-circuit release	А	0 - 0
Adjustment range undelayed short-circuit release	Α	1260 - 7560
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