

Circuit-breaker 4p, 1600A, fixed

Part no. IZMX16H4-A16F Article no. 123525



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	1600
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	800
Overload release, max.	I _r	Α	1600
Non-delayed	$I_i = I_n x \dots$		2 - 12
Notes			
Main terminals must be separately ordered.			

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	$I_n = I_u$	Α	1600
Rated uninterrupted current at 50 °C	I _u	Α	1500
Rated uninterrupted current at 60 °C	Iu	Α	1400
Rated uninterrupted current at 70 °C	Iu	Α	1350
Rated impulse withstand voltage	U _{imp}	V AC	12000

V AC kA V KA	690 23 III/3 1000 136 88 42 42 65 50 42 25 50 25 12500
V kA kA kA kA kA kA kA ms ms ms	111/3 1000 136 88 42 85 65 42 65 50 42 30 25 50
kA kA kA kA kA kA ms ms ms	136 88 42 42 65 50 42 30 25 50
kA kA kA kA kA kA ms ms ms	136 88 42 85 65 42 65 50 42 30 25 50 25
kA kA kA kA kA kA ms ms ms	88 42 85 65 42 65 50 42 25 12500
kA kA kA kA kA kA ms ms ms	88 42 85 65 42 65 50 42 25 12500
kA kA kA kA kA kA ms ms ms	88 42 85 65 42 65 50 42 25 12500
kA kA kA kA ms ms ms	42 85 65 42 65 50 42 30 25 50
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kA kA kA ms ms ms	65 50 42 30 25 50
kA kA ms ms ms	50 42 30 25 50 25
kA kA ms ms ms	50 42 30 25 50 25
kA kA ms ms ms	50 42 30 25 50 25
ms ms ms	42 30 25 50 25 12500
ms ms ms	30 25 50 25 12500
ms ms	25 50 25 12500
ms ms	25 50 25 12500
ms ms	50 25 12500
ms	25 12500
	12500
S	
	20000
	10000
	10000
	60
W	235
kg	19
kg	24
mm	2 v 5 v 100
111111	2 x 5 x 100
mm	2 x 5 x 100
111111	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
	mm mm

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	1600
Equipment heat dissipation, current-dependent	P _{vid}	W	235
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 switch gear must be observed. $\label{eq:constraint}$
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])

Α	1600
V	690 - 690
kA	65
А	800 - 1600
А	0 - 0
А	3200 - 19200
	No
	Rail connection
	Built-in device fixed built-in technique
	No
	No
	0
	0
	2
	V kA A

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