

Part no. Article no. IZMX16H4-V12F 123549



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	1250
Breaking capacity Icu = Ics to 440 V 50/60 Hz	l _{cu}	kA	65
Breaking capacity Ics to 440 V 50/60 Hz	I _{cs}	kA	50
Overload release, min.	lr	А	625
Overload release, max.	l _r	А	1250
Non-delayed	l _i = l _n 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

Anbient temperature 6 6 -0 Storage 0 - 70 -25 - 70 Mounting position 6 -25 - 70 Mounting position	General			
Storage0°C40 - 40Operating (open)°C-25 - 70Mounting position°C-30° + 30°Utilization categoryUtilization category	Standards			IEC/EN 60947
Operating (open) *C -25 - 70 Mounting position ************************************	Ambient temperature			
Mounting positionImage: Constraint of the second seco	Storage	θ	°C	-40 - +70
Utilization category B Degree of Protection P20, IP55 with protective cover, IP41 door sealing frame as required Main conducting paths required Rated current = rated uninterrupted current In= lu A 1250	Operating (open)		°C	-25 - +70
Utilization categoryModelBDegree of ProtectionModelModelDirection of incoming supplyModelModelMain conducting pathsIn = luAStated current = rated uninterrupted currentIn = luA1250IncomplexIncomplexName and the path interrupted currentIn = luA1250IncomplexIncomplex	Mounting position			30° 30°
Degree of Protection IP20, IP55 with protective cover, IP41 door sealing frame Direction of incoming supply as required Main conducting paths In = Iu A I250 IP20, IP55 with protective cover, IP41 door sealing frame				30° 30°
Direction of incoming supply as required as required as required Amain conducting paths In = Iu A 1250	Utilization category			В
Main conducting paths In = Iu A 1250	Degree of Protection			IP20, IP55 with protective cover, IP41 door sealing frame
Rated current = rated uninterrupted current In = Iu A 1250	Direction of incoming supply			as required
	Main conducting paths			
Rated uninterrupted current at 50 °C Iu A 1250	Rated current = rated uninterrupted current	$I_n = I_u$	А	1250
	Rated uninterrupted current at 50 °C	lu	А	1250

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Net of operational outque4VAC5000000000000000000000000000000000000			A	1250
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Switching capacity Image show the stand capacity in the show that and capacity show the show that and capacity in the show the	Overvoltage category/pollution degree			111/3
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t - 1 sIIIIIRated Suff George parating sequences I0 - CO </td <td>up to 690 V 50/60 Hz</td> <td>I_{cm}</td> <td>kA</td> <td>88</td>	up to 690 V 50/60 Hz	I _{cm}	kA	88
Reted short-circult breaking capacity L _m L _m Interference of the second sequence L _m 0+CO IFECCK MERAT operating sequence L _m 0+CO L _m M B up to 240 V 5000 Hz L _m M B up to 2600 V 5000 Hz L _m M B int 5000 Hz L _m M B up to 2600 V 5000 Hz L _m M B int 5000 Hz L _m M B up to 2600 V 5000 Hz L _m M B up to 2600 V 5000 Hz L _m M B up to 2600 V 5000 Hz L _m M B up to 2600 V 5000 Hz L _m M B Up to 2600 V 5000 Hz L _m M B Up to 2600 V 5000 Hz L _m M B Ober sing infines L _m M B Closing delay via spring reliase m B B Total coening delay via unindervitago reliase m m B Total coening delay via unindervitago reliase m m B Utespan, mechanical Switching Ories (SW) M B Lifespan, mechanical with maintenance Switching Ories (SW) M B Lifespan, electrical with maintenan	Rated short-time withstand current 50/60 Hz			
EECEN 80847 aperating sequence 1 _{se} 0-+C0 in in<	t = 1 s	I _{cw}	kA	42
up to 240 Y 5000 HzInInIA8up to 360 Y 5000 HzFuKuA6up to 260 Y 5000 HzFuKuA6up to 260 Y 5000 HzFuKu56up to 460 Y 5000 HzFuKu56Up to 860 Y 5000 HzFuKu56Up to 860 Y 5000 HzFuKu56Up to 860 Y 5000 HzFuFu66Up to 860 Y 5000 HzFuFu66Up to 860 Y 5000 HzFuFu66Chaing dialy via pring releaseFuFu6Total opening delay via shurt releaseFuFu5Total opening delay via non-delayed short-cicul release (up to complete at comp	Rated short-circuit breaking capacity I _{cn}	I _{cn}		
up to 440 Y 506 Hz ku A 6 up to 580 Y 505 Hz ku A 2 up to 460 Y 505 Hz ku A 2 up to 460 Y 506 Hz ku A 30 up to 460 Y 506 Hz ku A 30 up to 460 Y 506 Hz ku Ku 2 Operating sequence ku ot -000 Hz ku 40 2 Operating intes Ku 30 2 Total opening delay via stunt release ms 30 2 Total opening delay via stunt release ms 30 2 Total opening delay via stunt release ms 30 2 Total opening delay via stunt release ms 30 2 Utespan, mechanical Soutching ms 30 Utespan, mechanical Soutching ms 300 Utespan, electrical Soutching ms 300 Utespan, electrical Soutching ms 4000 Utespan, electrical with maintenance Soutching	IEC/EN 60947 operating sequence I _{cu} O-t-CO			
up to 440 Y 500 Hz Inu IA 6 up to 880 Y 500 Hz Inu IA 2 up to 480 Y 500 Hz Inu IA 2 up to 480 Y 500 Hz Inu IA 5 up to 480 Y 500 Hz Inu IA 5 up to 480 Y 500 Hz Inu IA 5 up to 480 Y 500 Hz Inu IA 5 Operating insegrations Inu IA 2 Obising delay via shurt release Inu IA 5 Total opening delay via shurt release Inu Inu IA Total opening delay via shurt release Inu Inu IA Utespan, mechanical Southing Inu Inu IA Utespan, mechanical Southing Inu Inu IA Utespan, mechanical Southing Inu Inu Inu Utespan, mechanical with maintenance Southing Inu Inu Inu Inu Inu Inu Inu Inu Inu <	up to 240 V 50/60 Hz	I _{cu}	kA	85
up to 580 V 50,80 Hz Lu KA Z IECEN 61947 operating sequence Lg 0+C0+C0	up to 440 V 50/60 Hz		kA	65
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up to 890 V9000 Hz rs Ka 4 Operating times Image: Solution of Galaxy via spring release Solution of Galaxy via undervoltage release Solution				
Operating times Image: Construct of the set of t				
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Heat dissipation at rated current In Image: Constraint of the second	Lifespan, electrical with maintenance	cycles (ON/		10000
Fixed mounting W 132 Weight Image: State of the sta	Maximum operating frequency	Operations/h		60
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4-pole kg 24 Terminal capacities Copper bar Image: Copper date of the second date of the se	Fixed mounting			
Terminal capacities Copper bar Image: Copper bar Fixed mounting Image: Copper bar Black mm 2 x 5 x 80 Withdrawable units mm 2 x 5 x 80 Black mm 2 x 5 x 80 These are values used in separate switchgear. The actual values will dependent	3-pole		kg	19
Copper bar Fixed mounting Fixed mounting mm Black mm 2 x 5 x 80 Withdrawable units mm 2 x 5 x 80 Black mm 2 x 5 x 80 Black mm 2 x 5 x 80	4-pole		kg	24
Fixed mounting mm 2 x 5 x 80 Black mm 2 x 5 x 80 Withdrawable units mm 2 x 5 x 80 Black mm 2 x 5 x 80 These are values used in separate switchgear. The actual values will depend	-			
Black mm 2 x 5 x 80 Withdrawable units mm 2 x 5 x 80 Black mm 2 x 5 x 80 These are values used in separate switchgear. The actual values will depend	Copper bar			
Withdrawable units mm 2 x 5 x 80 Black mm These are values used in separate switchgear. The actual values will depend	Fixed mounting			
Black mm 2 x 5 x 80 These are values used in separate switchgear. The actual values will depend	Black		mm	2 × 5 × 80
These are values used in separate switchgear. The actual values will depend	Withdrawable units			
	Black		mm	2 × 5 × 80
temperature, the degree of protection (IP), the mounting height, the partitions any external ventilation. Depending on the specific switchgear design, this m				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.

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	1250
Equipment heat dissipation, current-dependent	P _{vid}	W	132
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	1250
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	65
Overload release current setting	А	625 - 1250
Adjustment range short-term delayed short-circuit release	А	2500 - 12500
Adjustment range undelayed short-circuit release	А	2500 - 15000
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

250

Dimensions

