## Circuit-breaker, 3 pole, 1250A, 50 kA, P measurement, IEC, Withdrawable



Powering Business Worldwide

IZMX16N3-P12W-1 Part no.

183477

EL Number 4398091

Product name Part no. EAN A015061792139 Product Langth/Depth Product Langth/Depth Product Langth/Depth Product Langth/Depth Product width Product width Product width Product reight Product seight Product Seight Product Seight Product Seight Product Seight Product Tradename Product Sub Tipe Pro	(Norway)	
Pert no.  EAN	General specifications	
Facility Lamph Depth Product length Depth Product length Depth Product veilght Product Short Product Tardename Product Tardename Product Type Pr	Product name	
Product Length Velopith Product Velopit Product Velopit Compliances Product Velopit Compliances Product Stroke Stroke Stroke Product Stroke Stroke Product Stroke Stroke Stroke Stroke Product Stroke Stroke Stroke Stroke Product Stroke Stroke Stroke Stroke Stroke Product Stroke Str		IZMX16N3-P12W-1
Product height Product wowth Product wowth Product wowth Product wowth Product Todensme Product Todensme Product Sub Type Pro		4015081792139
Product width Product weight Compliances    Compliances	Product Length/Depth	584 millimetre
Product resignt Compliances    ECPN 80947	Product height	597 millimetre
Compliances  Product Tudename  Product Tudename  Product Sub Type	Product width	521 millimetre
Product Tradename Type Product Stan Type Product	Product weight	27.74 kilogram
Product Type Product Sub Type Product Su	Compliances	IEC
Product Sub Type    None   None	Product Tradename	IZMX/INX
Type  Number of poles  Number of poles  Three-pole  Electronic rolese  Complete device with protection unit Motor drive optional  Special features  Special	Product Type	Circuit-breaker
Air circuit breakers/switch-disconnector Open circuit breaker of poles  Ampurage Rating  Anpurage Rating  Anpurage Rating  Features  Features  Special features  Features  Cassette must be separately or derived.  External LEXON IP-PPM-1 voltage measuring module required (1 module is suitable for 10 circuit breakers)  LEXAMOUTH EVENT external voltage measuring module required (1 module is suitable for 10 circuit breakers)  LEXAMOUTH EVENT external voltage measuring module required (1 module is suitable for 10 circuit breakers)  LEXAMOUTH EVENT external voltage measuring module required (1 module is suitable for 10 circuit breakers)  LEXAMOUTH EVENT external voltage measuring module required suitable for 20 circuit preakers, which is influenced by the arabient temperature around the circuit breaker, which is influenced by the arabient temperature around the circuit breaker, which is influenced by the arabient temperature around the circuit breaker, which is influenced by the arabient temperature around the circuit breaker, which is influenced by the arabient temperature around the circuit breaker, which is influenced by the arabient temperature around the circuit breaker, which is mitternal to the subject of the circuit breaker around the circuit breaker, which is mitternal to the subject of the circuit breaker around the circuit breaker, which can the occuprent of the circuit breaker and admitted information.  Frame  Frame	Product Sub Type	None
Number of poles Amperage Rating Release system Eeatures Complete device with protection unit Motor drive optional Special features Special fea	Delivery program	
Amperage Rating Release system Features Complete device with protection unit Motor drive optional Special features Special fe	Туре	
Features	Number of poles	Three-pole
Complete device with protection unit Motor drive optional Special features   Casset must be sparately ordered. External IZMX_OTP_FTM-1 voltage neasuring module required (1 module is suitable for 16 circuit breaker) en suitable for 16 circuit breaker) en suitable for 2000 selection (1 module is suitable for 16 circuit breaker) en suitable for 2000 selection (1 module is suitable for 2000 selection for 16 circuit breaker) en suitable for 2000 selection (1 module is suitable for 2000 selection (2 module required suitable for 2000 selection) suitable for 2000 selection (2 module required suitable for 2000 selection) suitable for 2000 selection (2 module required suitable for 2000 selection) suitable for 2000 selection (2 module required suitable for 2000 selection) suitable for 2000 selection (2 module required suitable for 2000 selection) suitable for 2000 selection (2 module required (2 modul	Amperage Rating	1250 A
Special features  Special feat	Release system	Electronic release
Extramal ZMM-DTP-FTM—1 voltage measuring module required 1 module is suitable for 16 circuit breakers)  IZMV-DTP-FTM extramal voltage measuring module required suitable for 10 circuit breakers)  IZMV-DTP-FTM extramal voltage measuring module required suitable for room munication with integrated system monitor with integrated system monitor with integrated test possibility optionally fittable by user with comprehensive accessories optionally fittable by user with temperature acount of the eight optionally fittable by user with temperature accessories optionally fittable by user with temp	Features	
Fitted with: Used with  Used with  Open circuit breaker Air circuit breakers/switch-disconnector  Fechnical Data - Electrical  Voltage rating at AC  Rated operating voltage (Ue) - min  Rated operating voltage (Ue) - max  Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp)  Rated uninterrupted current (Iu)  Rated uninterrupted current (Iu) at 50°C  Rated uninterrupted current (Iu) at 60°C  Rated uninterrupted current (Iu) at 70°C  Rated short-time withstand current (t = 1 s)  Overload release current setting - min  Switched-off indicator  Open circuit breakers/switch-disconnector  690 V  690 V  690 V  1000 V  1250 A  1250 A  1250 A  1250 A  1250 A		External IZMX-DTP-PTM-1 voltage measuring module required (1 module is suitable for 16 circuit breakers) IZMX-DTP-PTM external voltage measuring module required suitable for zone selectivity suitable for communication with integrated system monitor with integrated test possibility With graphic LCD display optionally fittable by user with comprehensive accessories Terminal capacity hint: These are values used in separate switchgear. The act values will depend on the temperature around the circuit breaker, which is influenced by the ambient temperature, the degree of protection (IP), the mour height, the partitions, and any external ventilation. Depending on the specific switchgear design, this may result in derating, which can then be compensate for by increasing the cross-sectional area. Temperature rise tests in the specific switchgear can provide specific and detailed information.
Used with  Open circuit breaker Air circuit breaker Air circuit breakers/switch-disconnector  Fechnical Data - Electrical  Voltage rating at AC  Rated operating voltage (Ue) - min  Rated operating voltage (Ue) - max  Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp)  Rated impulse withstand voltage (Uimp)  Rated uninterrupted current (Iu)  Rated uninterrupted current (Iu) at 50°C  Rated uninterrupted current (Iu) at 60°C  Rated uninterrupted current (Iu) at 70°C  Rated uninterrupted current (Iu) at 70°C  Rated uninterrupted current (Iu) at 70°C  Rated short-time withstand current (t = 1 s)  Overload release current setting - min		
Air circuit breakers/switch-disconnector  Fechnical Data - Electrical  Voltage rating at AC  Rated operating voltage (Ue) - min  Rated operating voltage (Ue) - max  Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp)  Rated uninterrupted current (Iu)  Rated uninterrupted current (Iu) at 50°C  Rated uninterrupted current (Iu) at 60°C  Rated uninterrupted current (Iu) at 70°C  Rated withstand current (Iu) at 70°C  Rated short-time withstand current (I = 1 s)  Overload release current setting - min		
Voltage rating at AC Rated operating voltage (Ue) - min Rated operating voltage (Ue) - max Rated insulation voltage (Ui) Rated impulse withstand voltage (Uimp) Rated uninterrupted current (Iu) at 50°C Rated uninterrupted current (Iu) at 60°C Rated uninterrupted current (Iu) at 70°C Son A Rated short-time withstand current (I = 1 s) Overload release current setting - min	Used with	
Rated operating voltage (Ue) - min  Rated operating voltage (Ue) - max  690 V  Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp)  Rated uninterrupted current (Iu)  Rated uninterrupted current (Iu) at 50°C  Rated uninterrupted current (Iu) at 60°C  Rated uninterrupted current (Iu) at 70°C  Rated uninterrupted current (Iu) at 70°C  Rated short-time withstand current (t = 1 s)  Overload release current setting - min  690 V  690 V	Technical Data - Electrical	
Rated operating voltage (Ue) - max  Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp)  Rated uninterrupted current (Iu)  Rated uninterrupted current (Iu) at 50°C  Rated uninterrupted current (Iu) at 60°C  Rated uninterrupted current (Iu) at 70°C  Rated uninterrupted current (Iu) at 70°C  Rated short-time withstand current (t = 1 s)  Overload release current setting - min  690 V  1000 V  1260 A  1250 A  1250 A  1250 A  1250 A  1250 A  1250 A	Voltage rating at AC	690 V AC
Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp)  12 kV AC  Rated uninterrupted current (Iu)  Rated uninterrupted current (Iu) at 50°C  Rated uninterrupted current (Iu) at 60°C  Rated uninterrupted current (Iu) at 70°C  Rated uninterrupted current (Iu) at 70°C  Rated short-time withstand current (t = 1 s)  Overload release current setting - min  1000 V  1250 A  1250 A  1250 A  1250 A  842 kA  500 A	Rated operating voltage (Ue) - min	690 V
Rated impulse withstand voltage (Uimp)  Rated uninterrupted current (Iu)  Rated uninterrupted current (Iu) at 50°C  Rated uninterrupted current (Iu) at 60°C  Rated uninterrupted current (Iu) at 60°C  Rated uninterrupted current (Iu) at 70°C  Rated short-time withstand current (t = 1 s)  Overload release current setting - min  12 kV AC  1250 A  1250 A  1250 A  1250 A  500 A	Rated operating voltage (Ue) - max	690 V
Rated uninterrupted current (Iu)  Rated uninterrupted current (Iu) at 50°C  1250 A  Rated uninterrupted current (Iu) at 60°C  Rated uninterrupted current (Iu) at 70°C  1250 A  Rated uninterrupted current (Iu) at 70°C  1250 A  Rated short-time withstand current (t = 1 s)  Overload release current setting - min  1250 A  500 A	Rated insulation voltage (Ui)	1000 V
Rated uninterrupted current (Iu) at 50°C  Rated uninterrupted current (Iu) at 60°C  1250 A  Rated uninterrupted current (Iu) at 70°C  1250 A  Rated short-time withstand current (t = 1 s)  42 kA  Overload release current setting - min  500 A	Rated impulse withstand voltage (Uimp)	12 kV AC
Rated uninterrupted current (Iu) at 60°C  Rated uninterrupted current (Iu) at 70°C  1250 A  Rated short-time withstand current (t = 1 s)  Overload release current setting - min  1250 A  1250 A  1250 A  1250 A  1250 A	Rated uninterrupted current (Iu)	1250 A
Rated uninterrupted current (Iu) at 70°C 1250 A  Rated short-time withstand current (t = 1 s) 42 kA  Overload release current setting - min 500 A	Rated uninterrupted current (Iu) at 50°C	1250 A
Rated short-time withstand current (t = 1 s)  42 kA  Overload release current setting - min  500 A	Rated uninterrupted current (Iu) at 60°C	1250 A
Overload release current setting - min 500 A	Rated uninterrupted current (Iu) at 70°C	1250 A
Overload release current setting - min 500 A	Rated short-time withstand current (t = 1 s)	42 kA
	Overload release current setting - min	500 A
	Overload release current setting - max	1250 A

Object singuitable and delegated authorization and	007 F A
Short-circuit release delayed setting - min	937.5 A
Short-circuit release delayed setting - max	12500 A
Short-circuit release non-delayed setting	1.5 - 10 x lr
Short-circuit release non-delayed setting - min	0 A
Short-circuit release non-delayed setting - max	18750 A
Adjustment range short-term delayed short-circuit release - min	750 A
Adjustment range short-term delayed short-circuit release - max	12500 A
Adjustment range undelayed short-circuit release - min	2500 A
Adjustment range undelayed short-circuit release - max	18750 A
Rated short-circuit breaking capacity at 400 V, 50 Hz	50 kA
Rated short-circuit making capacity up to 440 V, 50/60 Hz	105 kA
Rated short-circuit making capacity up to 690 V, 50/60 Hz	88 kA
Power of withdrawable switch with cassette	180 W
Closing delay via spring release	30 ms
Electrical connection type of main circuit	Rail connection
Number of standard mechanical operations per hour - max	60
Operating sequence up to 690 V, 50/60 Hz (IEC/EN 60947)	42 kA
Actuator type	Push button
Utilization category	В
Overvoltage category	III
Pollution degree	3
Lifespan, electrical	20000 operations (switching cycles ON/OFF, with maintenance) 10000 operations (switching capacity)
Direction of incoming supply	As required
Technical Data - Mechanical	
Device construction	Built-in device slide-in technique (withdrawable)
Mounting Method	Withdrawable
Degree of protection	IP31 with door seals IP31 IP55 with protective cover
Protection	P measurement
Number of auxiliary contacts (change-over contacts)	2
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Position of connection for main current circuit	Back side
Weight of cassette version (3-pole)	18 kg
Weight of fixed withdrawable version (3-pole)	28 kg
Lifespan, mechanical	12500 switching cycles (ON/OFF) 25000 operations (switching capacity, with maintenance)
Technical Data - Mechanical - Terminals	
Terminal capacity (copper bar)	5 mm x 80 mm (2x) for withdrawable units (black)
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	1250 A
Equipment heat dissipation, current-dependent	180 W
Ambient operating temperature details	-20 °C - 70 °C
Ambient operating temperature - min	-20 °C
Ambient operating temperature - max	70 °C
Ambient storage temperature - min	-20 °C
Ambient storage temperature - max	70 °C
Design verification as per IEC/EN 61439	
10.2.2 Corrosion resistance	Meats the product standard's requirements
	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 Resists of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 9.0**

Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (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@ss13-27-37-04-09 [AJZ716018])

protection (cci@3310 27 07 04 03 [A02710010])		
Rated permanent current lu	А	1250
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	50
Overload release current setting	Α	500 - 1250
Adjustment range short-term delayed short-circuit release	Α	750 - 12500
Adjustment range undelayed short-circuit release	Α	2500 - 18750
Power loss	W	180
Device construction		Built-in device slide-in technique (withdrawable)
Integrated earth fault protection		No
Type of electrical connection of main circuit		Rail connection
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
With switched-off indicator		Yes
With integrated under voltage release		No
Number of poles		3
Position of connection for main current circuit		Backside
Type of control element		Push button
Complete device with protection unit		Yes
Motor drive integrated		No
Motor drive optional		Yes
Degree of protection (IP)		IP31