Circuit-breaker, 3 pole, 630A, 66 kA, Selective operation, IEC, Fixed



Part no. IZMX16H3-V06F-1

183336

EL Number 4398010

(Norway)

General specifications	
Product name	Eaton Moeller series IZMX/INX circuit-breaker
Part no.	IZMX16H3-V06F-1
EAN	4015081789245
Product Length/Depth	584 millimetre
Product height	597 millimetre
Product width	521 millimetre
Product weight	18.715 kilogram
Compliances	IEC/EN 60947
Compilation	IEC RoHS conform
Product Tradename	IZMX/INX
Product Type	Circuit-breaker
Product Sub Type	None
Delivery program	
Туре	Air circuit breakers/switch-disconnector Open circuit breaker
Number of poles	Three-pole Three-pole
Amperage Rating	630 A
Release system	Electronic release
Features	Complete device with protection unit Motor drive optional
Special features	Main terminals must be separately ordered. suitable for zone selectivity 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 specif switchgear can provide specific and detailed information.
Frame	IZMX16
Fitted with:	Switched-off indicator
Used with	Open circuit breaker
Tachmical Data Electrical	Air circuit breakers/switch-disconnector
recimical Data - Electrical	
Technical Data - Electrical Voltage rating at AC	
	Air circuit breakers/switch-disconnector
Voltage rating at AC	Air circuit breakers/switch-disconnector
Voltage rating at AC Rated operating voltage (Ue) - min	Air circuit breakers/switch-disconnector 690 V AC 690 V
Voltage rating at AC Rated operating voltage (Ue) - min Rated operating voltage (Ue) - max	Air circuit breakers/switch-disconnector 690 V AC 690 V 690 V
Voltage rating at AC Rated operating voltage (Ue) - min Rated operating voltage (Ue) - max Rated insulation voltage (Ui)	Air circuit breakers/switch-disconnector 690 V AC 690 V 690 V 1000 V
Voltage rating at AC Rated operating voltage (Ue) - min Rated operating voltage (Ue) - max Rated insulation voltage (Ui) Rated impulse withstand voltage (Uimp)	Air circuit breakers/switch-disconnector 690 V AC 690 V 690 V 1000 V 12 kV AC
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)	Air circuit breakers/switch-disconnector 690 V AC 690 V 690 V 1000 V 12 kV AC 630 A
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	Air circuit breakers/switch-disconnector 690 V AC 690 V 690 V 1000 V 12 kV AC 630 A 630 A
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	Air circuit breakers/switch-disconnector 690 V AC 690 V 690 V 1000 V 12 kV AC 630 A 630 A
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	Air circuit breakers/switch-disconnector 690 V AC 690 V 690 V 1000 V 12 kV AC 630 A 630 A 630 A
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)	Air circuit breakers/switch-disconnector 690 V AC 690 V 690 V 1000 V 12 kV AC 630 A 630 A 630 A 630 A
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	Air circuit breakers/switch-disconnector 690 V AC 690 V 690 V 1000 V 12 kV AC 630 A 630 A 630 A 630 A 630 A
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 Overload release current setting - max Short-circuit release delayed setting - min	Air circuit breakers/switch-disconnector 690 V AC 690 V 690 V 1000 V 12 kV AC 630 A 630 A 630 A 630 A 630 A 630 A
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 Overload release current setting - max	Air circuit breakers/switch-disconnector 690 V AC 690 V 690 V 1000 V 12 kV AC 630 A 630 A 630 A 630 A 42 kA 252 A 630 A 472.5 A

Short-circuit release non-delayed setting - max	9450 A
Adjustment range short-term delayed short-circuit release - min	378 A
, , ,	6300 A
Adjustment range short-term delayed short-circuit release - max Adjustment range undelayed short-circuit release - min	1260 A
	9450 A
Adjustment range undelayed short-circuit release - max	
Rated short-circuit breaking capacity at 400 V, 50 Hz	65 kA
Rated short-circuit making capacity up to 440 V, 50/60 Hz	145 kA
Rated short-circuit making capacity up to 690 V, 50/60 Hz	88 kA
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	10000 operations (switching capacity) 20000 operations (switching cycles ON/OFF, with maintenance)
Direction of incoming supply	As required
Technical Data - Mechanical	
Device construction	Built-in device fixed built-in technique
Mounting Method	Fixed
Degree of protection	IP31 with door seals
	IP31 IP55 with protective cover
Protection	Selective operation
	2
Number of auxiliary contacts (change-over contacts)	
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Position of connection for main current circuit	Backside
Weight of fixed mounting version (3-pole) Lifespan, mechanical	19 kg 12500 switching cycles (ON/OFF)
	25000 operations (switching capacity, with maintenance)
Technical Data - Mechanical - Terminals	
Terminal capacity (copper bar)	5 mm x 50 mm (2x) for fixed mounting (black)
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	630 A
Equipment heat dissipation, current-dependent	36 W
Heat dissipation at rated current with fixed mounting	36 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	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 definal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
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10.2.3.3 Resist. 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])

Rated voltage Rated short-circuit breaking capacity lou at 400 V, 50 Hz Avious Separating Control Release current setting Avious Separating Short-term delayed short-circuit release Adjustment range short-term delayed short-circuit release Adjustment range undelayed short-circuit release Avious Separating S			
Rated short-circuit breaking capacity lou at 400 V, 50 Hz Overload release current setting Adjustment range short-term delayed short-circuit release Adjustment range undelayed short-circuit release Will sall connection No Rail connection No No No No No No No No Number of auxiliary contacts as normally closed contact With switched-off indicator With switched-off indicator With switched-off indicator With integrated under voltage release No No No No No No No No No N	Rated permanent current lu	Α	630
Overload release current setting A 252 - 630 Adjustment range short-term delayed short-circuit release A 378 - 6300 Adjustment range undelayed short-circuit release A 1260 - 9450 Power loss W 36 Device construction Built-in device fixed built-in technique Integrated earth fault protection No Type of electrical connection of main circuit Rail connection Suitable for DIN rail (top hat rail) mounting optional No Number of auxiliary contacts as normally closed contact No Number of auxiliary contacts as normally open contact 2 With switched-off indicator Yes With integrated under voltage release No Number of poles 3 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	Rated voltage	V	690 - 690
Adjustment range short-term delayed short-circuit release Adjustment range undelayed short-circuit release Adjustment range undelayed short-circuit release Power loss Built-in device fixed built-in technique Built-in device fixed built-in tec	Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	65
Adjustment range undelayed short-circuit release A 1260 - 9450 Power loss Device construction Untegrated earth fault protection Type of electrical connection of main circuit Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact With integrated under voltage release With integrated under voltage release Nounder of poles Position of connection for main current circuit Supple of control element Complete device with protection unit Motor drive optional Motor drive optional A 1260 - 9450 Built-in device fixed built-in technique Built-in technique Rail connection R	Overload release current setting	Α	252 - 630
Power loss Device construction Device construction Integrated earth fault protection Type of electrical connection of main circuit Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact With switched-off indicator With integrated under voltage release With integrated under voltage release Nounber of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional With control element Motor drive optional With orderive optional	Adjustment range short-term delayed short-circuit release	Α	378 - 6300
Device construction Integrated earth fault protection Type of electrical connection of main circuit Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact With switched-off indicator With integrated under voltage release No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional Built-in device fixed built-in technique No Rail connection No No Rail connection No Rail connection No Rail connection No Rail connection Rail connection Rail connection Rail connection No Rail connection Rail connection Rail connection No Rail connection Rail connection Rail connection Rail connection Rail connection No Rail connection Rai	Adjustment range undelayed short-circuit release	Α	1260 - 9450
Integrated earth fault protection No Type of electrical connection of main circuit Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional No No Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact With switched-off indicator With integrated under voltage release No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional No Rail connection Roil connection No Sea Sea Sea Sea Sea Sea Sea Se	Power loss	W	36
Type of electrical connection of main circuit Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Ves With integrated under voltage release No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional	Device construction		Built-in device fixed built-in technique
Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Ves With switched-off indicator Ves With integrated under voltage release No Number of poles Position of connection for main current circuit Back side Type of control element Complete device with protection unit Motor drive integrated Motor drive optional Ves Motor drive optional	Integrated earth fault protection		No
DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact With switched-off indicator With integrated under voltage release With integrated under voltage release No Number of poles 3 Position of connection for main current circuit Back side Type of control element Complete device with protection unit Motor drive integrated Motor drive optional No No No No No No No No No N	Type of electrical connection of main circuit		Rail connection
Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Yes With switched-off indicator With switched-off indicator With integrated under voltage release No Number of poles Back side Type of control element Complete device with protection unit Yes Motor drive integrated Motor drive optional Yes	Suitable for DIN rail (top hat rail) mounting		No
Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact With switched-off indicator With integrated under voltage release With integrated under voltage release No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Wotor drive integrated Motor drive optional O O O O O O O O O O O O O	DIN rail (top hat rail) mounting optional		No
Number of auxiliary contacts as change-over contact With switched-off indicator Yes With integrated under voltage release No Number of poles Position of connection for main current circuit Back side Type of control element Complete device with protection unit Motor drive integrated Motor drive optional 2 Yes Yes No No Yes	Number of auxiliary contacts as normally closed contact		0
With switched-off indicator With switched-off indicator With integrated under voltage release No Number of poles 3 Position of connection for main current circuit Back side Type of control element Complete device with protection unit Wotor drive integrated Motor drive optional Yes Motor drive optional	Number of auxiliary contacts as normally open contact		0
With integrated under voltage release No Number of poles 3 Position of connection for main current circuit Back side Type of control element Complete device with protection unit Yes Motor drive integrated No Motor drive optional No	Number of auxiliary contacts as change-over contact		2
Number of poles 3 Position of connection for main current circuit Back side Type of control element Complete device with protection unit Motor drive integrated Motor drive optional 3 Back side Push button Yes No Yes	With switched-off indicator		Yes
Position of connection for main current circuit Type of control element Complete device with protection unit Wood drive integrated Motor drive optional Back side Push button Yes No Yes	With integrated under voltage release		No
Type of control element Complete device with protection unit Motor drive optional Push button Yes No Yes	Number of poles		3
Complete device with protection unit Yes Motor drive integrated Motor drive optional Yes	Position of connection for main current circuit		Back side
Motor drive integrated No Motor drive optional Yes	Type of control element		Push button
Motor drive optional Yes	Complete device with protection unit		Yes
	Motor drive integrated		No
Degree of protection (IP)	Motor drive optional		Yes
	Degree of protection (IP)		IP31