Circuit-breaker, 4 pole, 630A, 50 kA, P measurement, IEC, Withdrawable



Part no. IZMX16N4-P06W-1

183462

EL Number 4398076

(Norway)

General specifications	
•	E. A. H. CHANGAN C. C. L.
Product name	Eaton Moeller series IZMX/INX circuit-breaker
Part no.	IZMX16N4-P06W-1
EAN	4015081791989
Product Length/Depth	584 millimetre
Product height	597 millimetre
Product width	521 millimetre
Product weight	32.49 kilogram
Compliances	IEC IEC/EN 60947 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	Four-pole
Amperage Rating	630 A
Release system	Electronic release
Features	Motor drive optional Complete device with protection unit
Special features Frame	Cassette must be separately ordered. 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 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.
Fitted with:	Switched-off indicator
Used with	Open circuit breaker
osed with	Air circuit breakers/switch-disconnector
Technical Data - Electrical	
Voltage rating at AC	690 V AC
Rated operating voltage (Ue) - min	690 V
Rated operating voltage (Ue) - max	690 V
Rated insulation voltage (Ui)	1000 V
Rated impulse withstand voltage (Uimp)	12 kV AC
Rated uninterrupted current (Iu)	630 A
Rated uninterrupted current (Iu) at 50°C	630 A
Rated uninterrupted current (Iu) at 60°C	630 A
Rated uninterrupted current (Iu) at 70°C	630 A
Rated short-time withstand current (t = 1 s)	42 kA
Overload release current setting - min	252 A
Overload release current setting - min	630 A
Overload release current setting - max	WV A

Short-circuit release delayed setting - min	472.5 A
Short-circuit release delayed setting - max	6300 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	9450 A
Adjustment range short-term delayed short-circuit release - min	378 A
Adjustment range short-term delayed short-circuit release - max	6300 A
Adjustment range undelayed short-circuit release - min	1260 A
Adjustment range undelayed short-circuit release - max	9450 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	50 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	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 slide-in technique (withdrawable)
Mounting Method	Withdrawable
Degree of protection	IP55 with protective cover IP31 with door seals IP31
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 (4-pole)	21 kg
Weight of fixed withdrawable version (4-pole)	33 kg
Lifespan, mechanical	25000 operations (switching capacity, with maintenance) 12500 switching cycles (ON/OFF)
Technical Data - Mechanical - Terminals	
Terminal capacity (copper bar)	5 mm x 50 mm (2x) for withdrawable units (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	50 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 resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements. Meets the product standard's requirements.

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 V 690 - 690 Rated short-circuit breaking capacity lou at 400 V, 50 Hz kA 50 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 50 Device construction W 50 Integrated earth fault protection No Rail connection Type of electrical connection of main circuit No No Suitable for DIN rail (top hat rail) mounting optional No No Number of auxiliary contacts as normally closed contact No No Number of auxiliary contacts as normally open contact P 2 With integrated under voltage release P Yes With integrated under voltage release P 4 With integrated under voltage release P 4 Vita per of control element P 4 Type of control element P 4 Type of control element P	protection (eci@ss13-21-31-04-09 [AJZ/16018])		
Rated short-circuit breaking capacity lou at 400 V, 50 Hz kA 50 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 50 Device construction W 50 Integrated earth fault protection Mo No Type of electrical connection of main circuit No No Suitable for DIN rail (top hat rail) mounting No No Number of auxiliary contacts as normally closed contact No No Number of auxiliary contacts as normally open contact 2 0 With switched-off indicator Yes Yes With integrated under voltage release No No Number of poles Back side Back side Position of connection for main current circuit Yes Push button Complete device with protection unit Yes No Motor drive integrated Yes No	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 50 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 Number of auxiliary contacts as normally closed contact No Number of auxiliary contacts as normally open contact 0 With switched-off indicator Yes With integrated 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 Integrated No Motor drive integrated Yes	Rated voltage	V	690 - 690
Adjustment range short-term delayed short-circuit release Adjustment range undelayed short-circuit release Built-in device slide-in technique (withdrawable) Abjustment range undelayed short-circuit Avail (top hat rail) protection Type of electrical connection of main circuit Author of auxiliary contacts an ormally closed contact Availiary contacts as normally closed contact Availiary contacts as change-over contact Availiary contacts as normally closed contact Availiary contacts as normally	Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	50
Adjustment range undelayed short-circuit release Power loss 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 With switched-off indicator With integrated under voltage release Number of poles Vith integrated under voltage release Number of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive integrated Motor drive optional A 1260 - 9450 W 50 Sultable for DIN rail (top interchinique (withdrawable) No	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 Number of control element Complete device with protection unit Motor drive integrated Motor drive integrated Motor drive optional With switched-off indicator Wes No	Adjustment range short-term delayed short-circuit release	А	378 - 6300
Device construction Integrated earth fault protection of main circuit Integrated earth fault protection of main circuit Integrated earth fault protection of main circuit Integrated integrated integrated integrated Integrated earth fault protection of main circuit Integrated earth fault protection intic Integrated earth fault protection Integrated earth fault protection intic Integrated earth fault protection Integrated earth fault prote	Adjustment range undelayed short-circuit release	А	1260 - 9450
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 Vith switched-off indicator Vith integrated under voltage release Vith integrated under voltage release Vith integrated under voltage release Vith oconnection for main current circuit Type of control element Complete device with protection unit Vitor drive integrated Motor drive optional No No No No No No No No No N	Power loss	W	50
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 With switched-off indicator 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	Device construction		Built-in device slide-in technique (withdrawable)
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 Vith switched-off indicator Vith switched-off indicator Vith integrated under voltage release No Number of poles Position of connection for main current circuit Vith of connection for main current circuit	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 change-over contact Number of auxiliary contacts as change-over contact Vith switched-off indicator With integrated under voltage release With integrated under voltage release 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 indicator Number of indicator Number of poles No No Number of poles Position of connection for main current circuit Number of control element Complete device with protection unit Notor drive integrated No No No Yes Motor drive optional	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 Motor 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 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 Motor drive integrated Motor drive optional 2 Yes According to the device with protection unit No Motor drive optional	Number of auxiliary contacts as normally closed contact		0
With switched-off indicator With integrated under voltage release With integrated under voltage release No Number of poles A Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional Yes Yes Yes No No Yes	Number of auxiliary contacts as normally open contact		0
With integrated under voltage release No Number of poles 4 Position of connection for main current circuit Type of control element Complete device with protection unit Wotor drive optional No	Number of auxiliary contacts as change-over contact		2
Number of poles Position of connection for main current circuit Back side Type of control element Complete device with protection unit Motor drive optional 4 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 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		4
Complete device with protection unit Yes Motor drive integrated No Motor drive optional Yes	Position of connection for main current circuit		Back side
Motor drive integrated No 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) IP31	Motor drive optional		Yes
	Degree of protection (IP)		IP31