Circuit-breaker, 3 pole, 2500A, 105 kA, P measurement, IEC, Withdrawable



Part no. IZMX40H3-P25W-1

183608

**EL Number** 

4398162

(Norway)

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General specifications	
Product name	Eaton Moeller series IZMX/INX circuit-breaker
Part no.	IZMX40H3-P25W-1
EAN	4015081793440
Product Length/Depth	584 millimetre
Product height	597 millimetre
Product width	521 millimetre
Product weight	69 kilogram
Compliances	IEC/EN 60947 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
Amperage Rating	2500 A
Release system	Electronic release
Features	Motor drive optional Complete device with protection unit
Special features	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.
Frame	IZMX40
Fitted with:	Switched-off indicator
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)	2500 A
Rated uninterrupted current (Iu) at 50°C	2500 A
Rated uninterrupted current (Iu) at 60°C	2500 A
Rated uninterrupted current (Iu) at 70°C	2500 A
Rated short-time withstand current (t = 1 s)	85 kA
Rated short-time with stand current at $50/60 \text{ Hz}$ (t = $3 \text{ s}$ )	66 kA
Overload release current setting - min	1000 A
Overload release current setting - max	2500 A

	40mm A
Short-circuit release delayed setting - min	1875 A
Short-circuit release delayed setting - max	25000 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	37500 A
Adjustment range short-term delayed short-circuit release - min	1500 A
Adjustment range short-term delayed short-circuit release - max	25000 A
Adjustment range undelayed short-circuit release - min	5000 A
Adjustment range undelayed short-circuit release - max	37500 A
Rated short-circuit breaking capacity at 400 V, 50 Hz	105 kA
Rated short-circuit making capacity up to 440 V, 50/60 Hz	231 kA
Rated short-circuit making capacity up to 690 V, 50/60 Hz	166 kA
Power of withdrawable switch with cassette	350 W
Closing delay via spring release	35 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)	85 kA
Actuator type	Push button
Utilization category	B
Overvoltage category	III
Pollution degree	3
Lifespan, electrical	10000 operations (switching cycles ON/OFF, with maintenance) 5000 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 IP55 with protective cover IP31 with door seals
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)	29 kg
Weight of fixed withdrawable version (3-pole)	69 kg
Lifespan, mechanical	20000 operations (switching capacity, with maintenance) 10000 switching cycles (ON/OFF)
Technical Data - Mechanical - Terminals	
Terminal capacity (copper bar)	80 mm x 10 mm (2x) for withdrawable units (black)
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	2500 A
Equipment heat dissipation, current-dependent	350 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.
10.2.3.3 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.
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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 lobserved.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must 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 (ect@ss15-27-57-04-09 [A02710010])		
Rated permanent current lu	Α	2500
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	105
Overload release current setting	Α	1000 - 2500
Adjustment range short-term delayed short-circuit release	Α	1500 - 25000
Adjustment range undelayed short-circuit release	Α	5000 - 37500
Power loss	W	350
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		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)		IP31