Circuit-breaker, 4 pole, 2000A, 105 kA, Selective operation, IEC, Withdrawable



Part no. IZMX40H4-V20W-1

183806

**EL Number** 

4398295

(Norway)

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General specifications	
Product name	Eaton Moeller series IZMX/INX circuit-breaker
Part no.	IZMX40H4-V20W-1
EAN	4015081795420
Product Length/Depth	584 millimetre
Product height	597 millimetre
Product width	521 millimetre
Product weight	86 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	2000 A
Release system	Electronic release
Features	Motor drive optional Complete device with protection unit
Special features	Cassette must be separately ordered.  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 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
Used with	Air circuit breakers/switch-disconnector Open circuit breaker
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)	2000 A
Rated uninterrupted current (Iu) at 50°C	2000 A
Rated uninterrupted current (Iu) at 60°C	2000 A
Rated uninterrupted current (Iu) at 70°C	2000 A
Rated short-time withstand current (t = 1 s)	85 kA
Rated short-time with stand current at 50/60 Hz (t = $3 \text{ s}$ )	66 kA
Overload release current setting - min	800 A
Overload release current setting - max	2000 A
Short-circuit release delayed setting - min	1500 A
Short-circuit release delayed setting - max	20000 A

Short-circuit release non-delayed setting		5 - 10 x lr
Short-circuit release non-delayed setting - min	0,7	
Short-circuit release non-delayed setting - max	30	0000 A
Adjustment range short-term delayed short-circuit release - min	12	200 A
Adjustment range short-term delayed short-circuit release - max	20	0000 A
Adjustment range undelayed short-circuit release - min	40	000 A
Adjustment range undelayed short-circuit release - max	30	0000 A
Rated short-circuit breaking capacity at 400 V, 50 Hz	10	05 kA
Rated short-circuit making capacity up to 440 V, 50/60 Hz	23	31 kA
Rated short-circuit making capacity up to 690 V, 50/60 Hz	16	66 kA
Power of withdrawable switch with cassette	22	20 W
Closing delay via spring release	35	5 ms
Electrical connection type of main circuit	Ra	ail connection
Number of standard mechanical operations per hour - max	60	0
Operating sequence up to 690 V, 50/60 Hz (IEC/EN 60947)	85	5 kA
Actuator type	Pı	ush button
Utilization category	В	
Overvoltage category	III	I
Pollution degree	3	
Lifespan, electrical		000 operations (switching capacity) 6000 operations (switching cycles ON/OFF, with maintenance)
Direction of incoming supply	As	s required
Technical Data - Mechanical		
Device construction	Rı	uilt-in device slide-in technique (withdrawable)
Mounting Method		Vithdrawable
Degree of protection	IP	P31 P31 with door seals
Protection	IP	P55 with protective cover
		elective operation
Number of auxiliary contacts (change-over contacts)  Number of auxiliary contacts (normally closed contacts)	0	
Number of auxiliary contacts (normally closed contacts)	0	
Position of connection for main current circuit		ack side
Weight of cassette version (4-pole)		5 kg
Weight of fixed withdrawable version (4-pole)		6 kg
Lifespan, mechanical		0000 switching cycles (ON/OFF)
Enespui, incentanteal		0000 operations (switching capacity, with maintenance)
Technical Data - Mechanical - Terminals		
Terminal capacity (copper bar)	80	0 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)	20	000 A
Equipment heat dissipation, current-dependent		20 W
Ambient operating temperature details		20 °C - 70 °C
Ambient operating temperature - min		20 °C
Ambient operating temperature - max		0°C
Ambient operating temperature - min		20 °C
Ambient storage temperature - mini  Ambient storage temperature - max		0°C
Design verification as per IEC/EN 61439	70	
•		facts the graduat standard are surrounded.
10.2.2 Corrosion resistance		leets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures		leets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat		leets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects		leets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation		leets the product standard's requirements.
10.2.5 Lifting		oes not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact		oes not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	M	leets 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 permanent current lu	Α	2000
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	105
Overload release current setting	Α	800 - 2000
Adjustment range short-term delayed short-circuit release	Α	1200 - 20000
Adjustment range undelayed short-circuit release	Α	4000 - 30000
Power loss	W	220
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		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)		IP31