Eaton 149988

IZMX40N4-A40W. Circuit-breaker, 4p, 4000A, withdrawable

PRODUCT NAME	Eaton Moeller series IZMX/INX circuit-breaker
CATALOG NUMBER	149988
PRODUCT LENGTH/DEPTH	584 mm
PRODUCT HEIGHT	597 mm
PRODUCT WIDTH	521 mm
PRODUCT WEIGHT	86 kg
COMPLIANCES	IEC/EN 60947 IEC

Powering Business Worldwide

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AMPERAGE RATING	4000 A
FEATURES	Motor drive optional Complete device with protection unit
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.
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.
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	Does not apply, since the entire switchgear needs to

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ASSEMBLIES	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.
FITTED WITH:	Switched-off indicator
FRAME	IZMX40
POLLUTION DEGREE	3
RATED UNINTERRUPTED CURRENT (IU)	4000 A
UTILIZATION CATEGORY	B
MOUNTING METHOD	Withdrawable
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	880 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	12 kV AC
DEVICE CONSTRUCTION	Built-in device slide-in technique (withdrawable)
DIRECTION OF INCOMING SUPPLY	As required
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Rail connection
ACTUATOR TYPE	Push button
ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MAX	0 A
ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MIN	0 A

ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MAX	48000 A
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MIN	8000 A
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	2
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF STANDARD MECHANICAL OPERATIONS PER HOUR - MAX	60
OPERATING SEQUENCE UP TO 690 V, 50/60 HZ (IEC/EN 60947)	75 kA
OVERLOAD RELEASE CURRENT SETTING - MAX	4000 A
OVERLOAD RELEASE CURRENT SETTING - MIN	2000 A
POWER OF WITHDRAWABLE SWITCH WITH CASSETTE	880 W
RATED INSULATION VOLTAGE (UI)	1000 V
OVERVOLTAGE CATEGORY	III
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	8000 A
WEIGHT OF CASSETTE VERSION (3-POLE)	27 kg
WEIGHT OF CASSETTE VERSION (4-POLE)	35 kg
WEIGHT OF FIXED WITHDRAWABLE VERSION (3-POLE)	70 kg

WEIGHT OF FIXED WITHDRAWABLE VERSION (4-POLE)	86 kg
PROTECTION	System protection
VOLTAGE RATING AT AC	690 V AC
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX	48000 A
NUMBER OF POLES	Four-pole
DEGREE OF PROTECTION	IP41 with door sealing frame IP55 with protective cover IP20
CLOSING DELAY VIA SPRING RELEASE	35 ms
TYPE	• Air circuit breakers/switch-disconnector • Open circuit breaker
SPECIAL FEATURES	• 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.
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Back side
RELEASE SYSTEM	Electronic release
SUITABLE FOR	Main conducting paths with 57.6 kA in IT electrical power networks up to U = 440 V
RATED OPERATING VOLTAGE (UE) - MAX	690 V
RATED OPERATING VOLTAGE (UE) - MIN	240 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	4000 A
RATED SHORT-CIRCUIT BREAKING CAPACITY AT 400 V, 50 HZ	85 kA
RATED SHORT-CIRCUIT MAKING CAPACITY UP TO 440 V, 50/60 HZ	187 kA
RATED SHORT-CIRCUIT MAKING CAPACITY UP TO 690 V, 50/60 HZ	166 kA
RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)	85 kA
RATED SHORT-TIME WITHSTAND CURRENT AT 50/60 HZ (T = 3 S)	66 kA
RATED UNINTERRUPTED CURRENT (IU) AT 50°C	4000 A
RATED UNINTERRUPTED CURRENT (IU) AT 60°C	3650 A
RATED UNINTERRUPTED CURRENT (IU) AT 70°C	3500 A
TERMINAL CAPACITY (COPPER BAR)	10 mm x 100 mm (4x) for withdrawable units (black)

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□□□□ Eaton House
30 Pembroke Road
Dublin 4, □□□
Eaton.com

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