

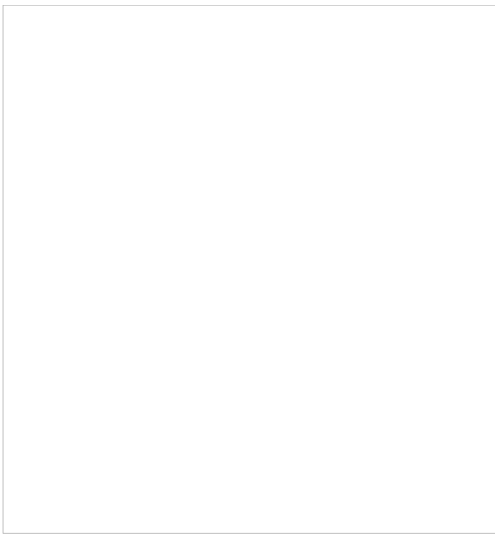
**AIR CIRCUIT BREAKER - IZMX/INX
SERIES**
183410


Overview


Specifications


Resources

Technical



183410

Eaton Moeller series IZMX/INX - ACB. Circuit-breaker with current measurement, IEC, Withdrawable

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184274
Eaton Moeller series IZMX/INX - ACB.
Shunt release 220-240 VAC/DC, 1

184254
Eaton Moeller series IZMX/INX - ACB.
Motor operator 208-240 VAC/DC, 16

184289
Eaton Moeller series IZMX/INX - ACB.
Closing release 220-240 VAC/DC, 1

183971
Eaton Moeller series IZMX/INX - ACB.
Connection 4p horizontal/vertical

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GENERAL SPECIFICATIONS

General specifications	>	PRODUCT NAME	Eaton Moeller series IZMX/INX circuit-breaker
		CATALOG NUMBER	183410
Product specifications	>	MODEL CODE	IZMX16N4-P12W-1
		EAN	4015081791460
		PRODUCT LENGTH/DEPTH	584 mm
		PRODUCT HEIGHT	597 mm
		PRODUCT WIDTH	521 mm
		PRODUCT WEIGHT	32.49 kg
		COMPLIANCES	IEC IEC/EN 60947 RoHS conform

PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	1250 A
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications must be observed.
POWER OF WITHDRAWABLE SWITCH WITH CASSETTE	180 W
NUMBER OF STANDARD MECHANICAL OPERATIONS PER HOUR - MAX	60
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications must be observed.
MOUNTING METHOD	Withdrawable
AMPERAGE RATING	1250 A
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be lifted.
ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MAX	12500 A
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
AMBIENT STORAGE TEMPERATURE - MIN	-20 °C
FITTED WITH:	Switched-off indicator
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MAX	18750 A
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.

ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MIN	750 A
PROTECTION	P measurement
ACTUATOR TYPE	Push button
SPECIAL FEATURES	<ul style="list-style-type: none"> • Cassette must be separately ordered. • External IZMX-DTP-PTM-1 voltage measuring module is suitable for 16 circuit breakers) • IZMX-DTP-PTM external voltage measuring module • 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 the design of the switchgear. The actual values will depend on the temperature of the switchgear, the circuit breaker, which is influenced by the ambient temperature, the protection (IP), the mounting height, the partitioning, the ventilation. Depending on the specific switchgear configuration, derating may result in derating, which can then be compensated by increasing the cross-sectional area. Temperature rise tests in accordance with IEC 60480-1 switchgear can provide specific and detailed information.
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING	1.5 - 10 x Ir
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Back side
DEVICE CONSTRUCTION	Built-in device slide-in technique (withdrawable)
WEIGHT OF CASSETTE VERSION (4-POLE)	21 kg
FEATURES	Motor drive optional Complete device with protection unit
LIFESPAN, ELECTRICAL	10000 operations (switching capacity) 20000 operations (switching cycles ON/OFF, with 100% duty cycle)
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Rail connection
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
UTILIZATION CATEGORY	B
NUMBER OF POLES	Four-pole
AMBIENT OPERATING TEMPERATURE - MIN	-20 °C
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be tested.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be tested.
RATED UNINTERRUPTED CURRENT (IU)	1250 A
USED WITH	Air circuit breakers/switch-disconnector Open circuit breaker
OPERATING SEQUENCE UP TO 690 V, 50/60 HZ (IEC/EN 60480-1)

60947)	42 kA
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	180 W
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the instruction leaflet (IL) is observed.
WEIGHT OF FIXED WITHDRAWABLE VERSION (4-POLE)	33 kg
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to
RATED UNINTERRUPTED CURRENT (IU) AT 60°C	1250 A
CLOSING DELAY VIA SPRING RELEASE	30 ms
RATED OPERATING VOLTAGE (UE) - MIN	690 V
FRAME	IZMX16
OVERLOAD RELEASE CURRENT SETTING - MIN	500 A
SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX	12500 A
TERMINAL CAPACITY (COPPER BAR)	5 mm x 80 mm (2x) for withdrawable units (black)
VOLTAGE RATING AT AC	690 V AC
RATED SHORT-CIRCUIT MAKING CAPACITY UP TO 690 V, 50/60 HZ	88 kA
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
RATED SHORT-CIRCUIT MAKING CAPACITY UP TO 440 V, 50/60 HZ	105 kA
POWER LOSS	180 W
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.
LIFESPAN, MECHANICAL	25000 operations (switching capacity, with maintenance) 12500 switching cycles (ON/OFF)
OVERLOAD RELEASE CURRENT SETTING - MAX	1250 A
SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN	937.5 A
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	0 A
OVERVOLTAGE CATEGORY	III

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DEGREE OF PROTECTION	IP55 with protective cover IP31 IP31 with door seals
RATED SHORT-TIME WITHSTAND CURRENT (T= 1 S)	42 kA
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	2
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MIN	2500 A
RELEASE SYSTEM	Electronic release
POLLUTION DEGREE	3
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	12 kV AC
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the device
RATED SHORT-CIRCUIT BREAKING CAPACITY AT 400 V, 50 HZ	50 kA
AMBIENT OPERATING TEMPERATURE DETAILS	-20 °C - 70 °C
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX	18750 A
TYPE	<ul style="list-style-type: none"> • Air circuit breakers/switch-disconnector • Open circuit breaker
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
RATED OPERATING VOLTAGE (UE) - MAX	690 V
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
DIRECTION OF INCOMING SUPPLY	As required
RATED UNINTERRUPTED CURRENT (IU) AT 50°C	1250 A
RATED UNINTERRUPTED CURRENT (IU) AT 70°C	1250 A
RATED INSULATION VOLTAGE (UI)	1000 V

Certification reports

Drawings

eCAD model

Installation videos

Manuals and user guides

mCAD model



Technical support

183410



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