

Specificații



Eaton 183707

Eaton Moeller series IZMX/INX - ACB. Circuit-breaker, 3p, 2500A, 66 kA, Selective operation, IEC, Fixed

General specifications

PRODUCT NAME	Eaton Moeller series IZMX/INX circuit-breaker
CATALOG NUMBER	183707
EAN	4015081794430
PRODUCT LENGTH/DEPTH	584 mm
PRODUCT HEIGHT	597 mm
PRODUCT WIDTH	521 mm
PRODUCT WEIGHT	45 kg
COMPLIANCES	IEC/EN 60947 IEC RoHS conform
MODEL CODE	IZMX40B3-V25F-1



Powering Business Worldwide

Delivery program

TYPE

- Air circuit breakers/switch-disconnector
- Open circuit breaker

FRAME	IZMX40
NUMBER OF POLES	Three-pole
AMPERAGE RATING	2500 A
RELEASE SYSTEM	Electronic release

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	2280 A
RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)	66 kA
RATED SHORT-TIME WITHSTAND CURRENT AT 50/60 HZ (T = 3 S)	53 kA
OVERLOAD RELEASE CURRENT SETTING - MIN	1000 A
OVERLOAD RELEASE CURRENT SETTING - MAX	2500 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 I _r
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	5000 A

UNDELAYED SHORT-CIRCUIT RELEASE - MIN	
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MAX	37500 A
RATED SHORT-CIRCUIT BREAKING CAPACITY AT 400 V, 50 HZ	66 kA
RATED SHORT-CIRCUIT MAKING CAPACITY UP TO 440 V, 50/60 HZ	145 kA
RATED SHORT-CIRCUIT MAKING CAPACITY UP TO 690 V, 50/60 HZ	145 kA
POWER LOSS	345 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)	66 kA
UTILIZATION CATEGORY	B
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
DIRECTION OF INCOMING SUPPLY	As required
LIFESPAN, ELECTRICAL	5000 operations (switching capacity) 10000 operations (switching cycles ON/OFF, with maintenance)

Technical data - mechanical

DEVICE CONSTRUCTION	Built-in device fixed built-in technique
MOUNTING METHOD	Fixed
DEGREE OF PROTECTION	IP31 with door seals IP31 IP55 with protective cover
PROTECTION	Selective operation
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 FIXED MOUNTING VERSION (3-POLE)	43 kg
ACTUATOR TYPE	Push button
TERMINAL CAPACITY (COPPER BAR)	80 mm x 10 mm (2x) for fixed mounting (black)
LIFESPAN, MECHANICAL	10000 switching cycles (ON/OFF) 20000 operations (switching capacity, with maintenance)

Design verification as per IEC/EN 61439 - technical data

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	2500 A
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	345 W
HEAT DISSIPATION AT RATED CURRENT WITH FIXED MOUNTING	345 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.
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

Additional information

FEATURES	Motor drive optional Complete device with protection unit
FITTED WITH:	Switched-off indicator

- 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.

SPECIAL FEATURES

	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.

Resurse

	eaton-circuit-breaker-mounting-izmx-inx-mccb-dimensions.eps
DESENE	eaton-circuit-breaker-izmx-inx-mccb-dimensions-013.eps
	eaton-circuit-breaker-mounting-izmx-inx-mccb-dimensions-002.eps

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATA:



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