

Specifications



Photo is representative

Eaton 183451

Eaton Moeller series IZMX/INX - ACB. Switch, disconnecter, 3 pole, 1600A, without protection, IEC, Fixed, 16B3, 16F, 1

General specifications

PRODUCT NAME	Eaton Moeller series
	IZMX/INX switch-disconnector
CATALOG NUMBER	183451
MODEL CODE	INX16B3-16F-1
EAN	4015081791873
PRODUCT LENGTH/DEPTH	584 mm
PRODUCT HEIGHT	597 mm
PRODUCT WIDTH	521 mm
PRODUCT WEIGHT	18.715 kg
COMPLIANCES	IEC/EN 60947
	IEC
	RoHS conform



Powering Business Worldwide

Additional information

FUNCTIONS

Voltage release optional
Interlockable

Delivery programme

AMPERAGE RATING

1600 A

FEATURES

Motor drive optional
Version as main switch
Version as maintenance-
/service switch

FRAME

INX16

NUMBER OF POLES

Three-pole

RELEASE SYSTEM

Without releases

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.

SUITABLE FOR

Ground mounting
Intermediate mounting
Distribution board
installation

TYPE

- Air circuit breakers/switch-disconnector

	• Open switch-disconnector
USED WITH	Air circuit breakers/switch-disconnector Open switch-disconnector

Design verification to IEC/EN 61439

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 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	Does not apply, since the

Design verification to IEC/EN 61439 - technical data

AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE DETAILS	-20 °C - 70 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	235 W
HEAT DISSIPATION AT RATED CURRENT WITH FIXED MOUNTING	235 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	1600 A

AGAINST ELECTRIC SHOCK	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.

Technical data - electrical

ACTUATOR TYPE	Push button
CLOSING DELAY VIA SPRING RELEASE	25 ms
DIRECTION OF INCOMING SUPPLY	As required
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Rail connection
LIFESPAN, ELECTRICAL	10000 operations (switching capacity) 20000 operations (switching cycles ON/OFF, with maintenance)
NUMBER OF STANDARD MECHANICAL OPERATIONS PER HOUR - MAX	60
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	88 kA
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	12 kV AC
RATED INSULATION VOLTAGE (UI)	1000 V
RATED OPERATING VOLTAGE (UE) - MAX	690 V
RATED OPERATING VOLTAGE (UE) - MIN	690 V
RATED OPERATING VOLTAGE (UE) AT AC - MAX	690 V
RATED PERMANENT CURRENT AT AC-23, 400 V	1600 A
RATED SHORT-CIRCUIT MAKING CAPACITY UP TO 440 V, 50/60 HZ	88 kA
RATED SHORT-CIRCUIT MAKING CAPACITY UP TO 690 V, 50/60 HZ	88 kA
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	42 kA
RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)	42 kA
RATED UNINTERRUPTED	1600 A

Technical data - mechanical

ACTUATOR COLOR	Green
DEGREE OF PROTECTION	IP31 with door seals IP55 with protective cover NEMA Other
DEGREE OF PROTECTION (FRONT SIDE)	IP31
DEVICE CONSTRUCTION	Built-in device fixed built-in technique
HOUSING MATERIAL	Plastic
LIFESPAN, MECHANICAL	12500 switching cycles (ON/OFF) 25000 operations (switching capacity, with maintenance)
MOUNTING METHOD	Fixed
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 SWITCHES	1
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Back side
PROTECTION	None

CURRENT (IU)	
RATED UNINTERRUPTED CURRENT (IU) AT 50°C	1500 A
RATED UNINTERRUPTED CURRENT (IU) AT 60°C	1400 A
RATED UNINTERRUPTED CURRENT (IU) AT 70°C	1350 A
UTILIZATION CATEGORY	B
VOLTAGE RATING AT AC	690 V AC

Technical data - mechanical - terminals

TERMINAL CAPACITY (COPPER BAR)	5 mm x 100 mm (2x) for fixed mounting (black)
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Resources

CATALOGUES	eaton-acb-izm63-catalog-ca0135003en-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-switch-disconnector-declaration-of-conformity-eu250302en.pdf
DRAWINGS	eaton-circuit-breaker-mounting-izmx-inx-mccb-dimensions-002.eps
	eaton-circuit-breaker-izmx-inx-mccb-dimensions-011.eps
	eaton-circuit-breaker-mounting-izmx-inx-mccb-dimensions.eps
ECAD MODEL	DA-CE-ETN.INX16B3-16F-1
INSTALLATION VIDEOS	Air Circuit Breakers Series IZMX
MANUALS AND USER GUIDES	MN013001_EN
MCAD MODEL	eaton-air-circuit-breakers-mcad-drawings-izmx16-3pol-f.dwg
	DA-CS-izmx16_3pol_f

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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