Specifications

Photo is representative

Eaton 183647

Eaton Moeller series IZMX/INX - ACB. Switch, disconnector, 4 pole, 1250A, without protection, IEC, Fixed, 16B4, 12F, 1

General specifications

PRODUCT NAME	Eaton Moeller series IZMX/INX switch-disconnector
CATALOG NUMBER	183647
EAN	4015081793839
PRODUCT LENGTH/DEPTH	584 mm
PRODUCT HEIGHT	597 mm
PRODUCT WIDTH	521 mm
PRODUCT WEIGHT	23.37 kg
COMPLIANCES	IEC IEC/EN 60947 RoHS conform
MODEL CODE	INX16B4-12F-1

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Delivery program

TYPE	• Air circuit breakers/switch-disconnector • Open switch-disconnector
FRAME	INX16
NUMBER OF POLES	Four-pole
AMPERAGE RATING	1250 A
RELEASE SYSTEM	Without releases

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 OPERATING VOLTAGE (UE) AT AC - MAX	690 V
RATED INSULATION VOLTAGE (UI)	1000 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	12 kV AC
RATED UNINTERRUPTED CURRENT (IU)	1250 A
RATED UNINTERRUPTED CURRENT (IU) AT 50°C	1250 A
RATED UNINTERRUPTED CURRENT (IU) AT 60°C	1250 A
RATED UNINTERRUPTED CURRENT (IU) AT 70°C	1250 A
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	88 kA
RATED PERMANENT CURRENT AT AC-23, 400 V	1250 A
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	42 kA
RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)	42 kA
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 OPERATING POWER AT AC-3, 400 V	0 kW
RATED OPERATING POWER AT AC-23, 400 V	0 kW
SWITCHING POWER AT 400 V	0 kW
CLOSING DELAY VIA SPRING RELEASE	25 ms
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Rail connection

NUMBER OF STANDARD MECHANICAL OPERATIONS PER HOUR - MAX	60
UTILIZATION CATEGORY	B
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
DIRECTION OF INCOMING SUPPLY	As required
LIFESPAN, ELECTRICAL	10000 operations (switching capacity) 20000 operations (switching cycles ON/OFF, with maintenance)

Technical data - mechanical

DEVICE CONSTRUCTION	Built-in device fixed built-in technique
MOUNTING METHOD	Fixed
WIDTH IN NUMBER OF MODULAR SPACINGS	18
HOUSING MATERIAL	Plastic
DEGREE OF PROTECTION	IP55 with protective cover IP31 with door seals NEMA Other
DEGREE OF PROTECTION (FRONT SIDE)	IP31
PROTECTION	None
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
WEIGHT OF FIXED MOUNTING VERSION (4-POLE)	22 kg
ACTUATOR COLOR	Green
ACTUATOR TYPE	Push button
TERMINAL CAPACITY (COPPER BAR)	5 mm x 80 mm (2x) for fixed mounting (black)
LIFESPAN, MECHANICAL	25000 operations (switching capacity, with maintenance) 12500 switching cycles (ON/OFF)

Design verification as per IEC/EN 61439 - technical data

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	1250 A
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	132 W
HEAT DISSIPATION AT RATED CURRENT WITH FIXED MOUNTING	132 W
AMBIENT OPERATING TEMPERATURE DETAILS	-20 °C - 70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °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	Version as main switch Motor drive optional Version as maintenance-/service switch
FUNCTIONS	Interlockable Voltage release optional
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 Distribution board installation Intermediate mounting
USED WITH	Air circuit breakers/switch-disconnector Open switch-disconnector

	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.

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.eps eaton-circuit-breaker-izmx-inx-mccb-dimensions-011.eps eaton-circuit-breaker-mounting-izmx-inx-mccb-dimensions-002.eps
ECAD MODEL	DA-CE-ETN.INX16B4-12F-1
INSTALLATION VIDEOS	Air Circuit Breakers Series IZMX
MANUALS AND USER GUIDES	MN013001_EN
MCAD MODEL	DA-CS-izmx16_4pol_f DA-CD-izmx16_4pol_f

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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