

Specifications



Eaton 183553

Eaton Moeller series IZMX/INX - ACB. Circuit-breaker, 4p, 1600A, 50 kA, Selective operation, IEC, Fixed

General specifications

PRODUCT NAME	Eaton Moeller series IZMX/INX circuit-breaker
CATALOG NUMBER	183553
MODEL CODE	IZMX16N4-V16F-1
EAN	4015081792894
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
GLOBAL CATALOG	183553

Product specifications

USED WITH	Air circuit breakers/switch-disconnector Open circuit breaker
AMPERAGE RATING	1600 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	Does not apply, since the

Resources

CATALOGS	eaton-acb-izm63-catalog-ca0135003en-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-circuit-breaker-declaration-of-conformity-eu250300en.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.IZMX16N4-V16F-1
INSTALLATION VIDEOS	Air Circuit Breakers Series IZMX
MANUALS AND USER GUIDES	MN013001_EN
MCAD MODEL	DA-CD-izmx16_4pol_f DA-CS-izmx16_4pol_f

IMPACT	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.
FITTED WITH:	Switched-off indicator
FRAME	IZMX16
POLLUTION DEGREE	3
RATED UNINTERRUPTED CURRENT (IU)	1600 A
MOUNTING METHOD	Fixed
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	235 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	12 kV AC
UTILIZATION CATEGORY	B
DEVICE CONSTRUCTION	Built-in device fixed built-in technique
DIRECTION OF INCOMING SUPPLY	As required
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Rail connection

ACTUATOR TYPE	Push button
SHORT-CIRCUIT RELEASE	1.5 - 10 x I_r
NON-DELAYED SETTING	
ADJUSTMENT RANGE	
SHORT-TERM DELAYED	16000 A
SHORT-CIRCUIT RELEASE	
- MAX	
ADJUSTMENT RANGE	
SHORT-TERM DELAYED	960 A
SHORT-CIRCUIT RELEASE	
- MIN	
ADJUSTMENT RANGE	
UNDELAYED SHORT-	24000 A
CIRCUIT RELEASE - MAX	
ADJUSTMENT RANGE	
UNDELAYED SHORT-	3200 A
CIRCUIT RELEASE - MIN	
AMBIENT OPERATING	70 °C
TEMPERATURE - MAX	
AMBIENT OPERATING	-20 °C
TEMPERATURE - MIN	
AMBIENT STORAGE	70 °C
TEMPERATURE - MAX	
AMBIENT STORAGE	-20 °C
TEMPERATURE - MIN	
HEAT DISSIPATION AT	
RATED CURRENT WITH	235 W
FIXED MOUNTING	
NUMBER OF AUXILIARY	
CONTACTS (CHANGE-	2
OVER CONTACTS)	
NUMBER OF AUXILIARY	0
CONTACTS (NORMALLY	
CLOSED CONTACTS)	
NUMBER OF AUXILIARY	0
CONTACTS (NORMALLY	
OPEN CONTACTS)	
NUMBER OF STANDARD	
MECHANICAL	
OPERATIONS PER HOUR -	60
MAX	
OPERATING SEQUENCE	
UP TO 690 V, 50/60 HZ	42 kA
(IEC/EN 60947)	
OVERLOAD RELEASE	
CURRENT SETTING - MAX	1600 A
OVERLOAD RELEASE	
CURRENT SETTING - MIN	640 A
RATED INSULATION	1000 V

VOLTAGE (UI)	12500 switching cycles (ON/OFF)
LIFESPAN, MECHANICAL	25000 operations (switching capacity, with maintenance)
OVERVOLTAGE CATEGORY	III
SHORT-CIRCUIT RELEASE	
NON-DELAYED SETTING - MIN	0 A
WEIGHT OF FIXED MOUNTING VERSION (4-POLE)	24 kg
AMBIENT OPERATING TEMPERATURE DETAILS	-20 °C - 70 °C
PROTECTION	Selective operation
VOLTAGE RATING AT AC	690 V AC
SHORT-CIRCUIT RELEASE	
NON-DELAYED SETTING - MAX	24000 A
DELAYED SETTING - MAX	16000 A
NUMBER OF POLES	Four-pole
DEGREE OF PROTECTION	IP31 with door seals IP55 with protective cover IP31
CLOSING DELAY VIA SPRING RELEASE	30 ms
LIFESPAN, ELECTRICAL	10000 operations (switching capacity) 20000 operations (switching cycles ON/OFF, with maintenance)
TYPE	<ul style="list-style-type: none"> • Air circuit breakers/switch-disconnector • Open circuit breaker
SPECIAL FEATURES	<ul style="list-style-type: none"> • 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.

POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Back side
RELEASE SYSTEM	Electronic release
RATED OPERATING VOLTAGE (UE) - MAX	690 V
RATED OPERATING VOLTAGE (UE) - MIN	690 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	1600 A
RATED SHORT-CIRCUIT BREAKING CAPACITY AT 400 V, 50 HZ	50 kA
RATED SHORT-CIRCUIT MAKING CAPACITY UP TO 440 V, 50/60 HZ	105 kA
RATED SHORT-CIRCUIT MAKING CAPACITY UP TO	88 kA

690 V, 50/60 Hz

RATED SHORT-TIME

WITHSTAND CURRENT (T = 1 S) 42 kA

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

SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN

1200 A

TERMINAL CAPACITY (COPPER BAR)

5 mm x 100 mm (2x) for fixed mounting (black)

POWER LOSS

235 W

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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