Specifications

Photo is representative

Eaton 183355

Eaton Moeller series IZMX/INX - ACB. IZMX16, 3p, 1600 A, Icu (<= 440V 50/60 Hz): 66 kA, Ics (<= 440V 50/60 Hz): 50 kA, Ir 640 A - 1600 A, Withdrawable, Selective operation

General specifications

PRODUCT NAME	Eaton Moeller series IZMX/INX circuit-breaker
CATALOG NUMBER	183355
MODEL CODE	IZMX16H3-V16W-1
EAN	4015081789436
PRODUCT LENGTH/DEPTH	584 mm
PRODUCT HEIGHT	597 mm
PRODUCT WIDTH	521 mm
PRODUCT WEIGHT	27.74 kg
COMPLIANCES	IEC/EN 60947 IEC RoHS conform

Powering Business Worldwide

Delivery program

TYPE	• Air circuit breakers/switch-disconnector • Open circuit breaker
FRAME	IZMX16
NUMBER OF POLES	Three-pole
AMPERAGE RATING	1600 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)	1600 A
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
RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)	42 kA
OVERLOAD RELEASE CURRENT SETTING - MIN	640 A
OVERLOAD RELEASE CURRENT SETTING - MAX	1600 A
SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN	1200 A
SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX	16000 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING	1.5 - 10 x Ir
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	0 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX	24000 A
ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MIN	960 A
ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MAX	16000 A
ADJUSTMENT RANGE UNDELAYED SHORT-	3200 A

CIRCUIT RELEASE - MIN	
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MAX	24000 A
RATED SHORT-CIRCUIT BREAKING CAPACITY AT 400 V, 50 HZ	65 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	88 kA
POWER OF WITHDRAWABLE SWITCH WITH CASSETTE	320 W
POWER LOSS	320 W
CLOSING DELAY VIA SPRING RELEASE	30 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)	42 kA
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 slide-in technique (withdrawable)
MOUNTING METHOD	Withdrawable
DEGREE OF PROTECTION	IP55 with protective cover IP31 with door seals IP31
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 CASSETTE VERSION (3-POLE)	18 kg
WEIGHT OF FIXED WITHDRAWABLE VERSION (3-POLE)	28 kg
ACTUATOR TYPE	Push button
TERMINAL CAPACITY (COPPER BAR)	5 mm x 100 mm (2x) for withdrawable units (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)	1600 A
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	320 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	Is the panel builder's responsibility.

Additional information

FEATURES	Complete device with protection unit Motor drive optional
FITTED WITH:	Switched-off indicator
SPECIAL FEATURES	• Cassette must be separately ordered. • 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.
USED WITH	Open circuit breaker Air circuit breakers/switch-disconnector

INSULATING MATERIAL	
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.

Resources

CATALOGUES	eaton-acb-izm63-catalog-ca0135003en-en-us.pdf
DRAWINGS	eaton-circuit-breaker-mounting-izmx-inx-mccb-dimensions.eps eaton-circuit-breaker-izmx-inx-mccb-dimensions-012.eps eaton-circuit-breaker-mounting-izmx-inx-mccb-dimensions-002.eps
ECAD MODEL	ETN.IZMX16H3-V16W-1
INSTALLATION VIDEOS	Air Circuit Breakers Series IZMX
MANUALS AND USER GUIDES	MN013001_EN
MCAD MODEL	DA-CS-izmx16_3pol_w DA-CD-izmx16_3pol_w

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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