

# Specifications



## Eaton 183712

Eaton Moeller series IZMX/INX - ACB. Circuit-breaker, 3 pole, 1250A, 85 kA, Selective operation, IEC, Fixed

### General specifications

PRODUCT NAME	Eaton Moeller series IZMX/INX circuit-breaker
CATALOG NUMBER	183712
MODEL CODE	IZMX40N3-V12F-1
EAN	4015081794485
PRODUCT LENGTH/DEPTH	584 mm
PRODUCT HEIGHT	597 mm
PRODUCT WIDTH	521 mm
PRODUCT WEIGHT	45 kg
COMPLIANCES	IEC IEC/EN 60947 RoHS conform
GLOBAL CATALOG	183712

## Product specifications

<b>USED WITH</b>	Open circuit breaker Air circuit breakers/switch-disconnector
<b>AMPERAGE RATING</b>	1250 A
<b>FEATURES</b>	Complete device with protection unit Motor drive optional
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Meets the product standard's requirements.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL</b>	Does not apply, since the

## Resources

<b>CATALOGS</b>	<a href="#">eaton-acb-izm63-catalog-ca0135003en-en-us.pdf</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">eaton-circuit-breaker-declaration-of-conformity-eu250301en.pdf</a>
<b>DRAWINGS</b>	<a href="#">eaton-circuit-breaker-mounting-izmx-inx-mccb-dimensions.eps</a> <a href="#">eaton-circuit-breaker-mounting-izmx-inx-mccb-dimensions-002.eps</a> <a href="#">eaton-circuit-breaker-izmx-inx-mccb-dimensions-013.eps</a>
<b>ECAD MODEL</b>	<a href="#">DA-CE-ETN.IZMX40N3-V12F-1</a>
<b>INSTALLATION VIDEOS</b>	<a href="#">Air Circuit Breakers Series IZMX</a>
<b>MANUALS AND USER GUIDES</b>	<a href="#">MN013002_EN</a>
<b>MCAD MODEL</b>	<a href="#">DA-CS-izmx40_3pol_f</a> <a href="#">DA-CD-izmx40_3pol_f</a>

<b>IMPACT</b>	entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>FITTED WITH:</b>	Switched-off indicator
<b>FRAME</b>	IZMX40
<b>POLLUTION DEGREE</b>	3
<b>RATED UNINTERRUPTED CURRENT (IU)</b>	1250 A
<b>MOUNTING METHOD</b>	Fixed
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>	60 W
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	12 kV AC
<b>UTILIZATION CATEGORY</b>	B
<b>DEVICE CONSTRUCTION</b>	Built-in device fixed built-in technique
<b>DIRECTION OF INCOMING SUPPLY</b>	As required
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Rail connection

<b>ACTUATOR TYPE</b>	Push button
<b>SHORT-CIRCUIT RELEASE NON-DELAYED SETTING</b>	1.5 - 10 x I <sub>r</sub>
<b>ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MAX</b>	12500 A
<b>ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MIN</b>	750 A
<b>ADJUSTMENT RANGE UNDELAYED SHORT- CIRCUIT RELEASE - MAX</b>	18750 A
<b>ADJUSTMENT RANGE UNDELAYED SHORT- CIRCUIT RELEASE - MIN</b>	2500 A
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	70 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-20 °C
<b>AMBIENT STORAGE TEMPERATURE - MAX</b>	70 °C
<b>AMBIENT STORAGE TEMPERATURE - MIN</b>	-20 °C
<b>HEAT DISSIPATION AT RATED CURRENT WITH FIXED MOUNTING</b>	60 W
<b>NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS)</b>	2
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	0
<b>NUMBER OF STANDARD MECHANICAL OPERATIONS PER HOUR - MAX</b>	60
<b>OPERATING SEQUENCE UP TO 690 V, 50/60 HZ (IEC/EN 60947)</b>	75 kA
<b>OVERLOAD RELEASE CURRENT SETTING - MAX</b>	1250 A
<b>OVERLOAD RELEASE CURRENT SETTING - MIN</b>	500 A
<b>RATED INSULATION</b>	1000 V

<b>VOLTAGE (UI)</b>	
<b>LIFESPAN, MECHANICAL</b>	25000 operations (switching capacity, with maintenance) 12500 switching cycles (ON/OFF)
<b>OVERVOLTAGE CATEGORY</b>	III
<b>SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN</b>	0 A
<b>WEIGHT OF FIXED MOUNTING VERSION (3-POLE)</b>	43 kg
<b>AMBIENT OPERATING TEMPERATURE DETAILS</b>	-20 °C - 70 °C
<b>PROTECTION</b>	Selective operation
<b>VOLTAGE RATING AT AC</b>	690 V AC
<b>SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX</b>	18750 A
<b>SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX</b>	12500 A
<b>NUMBER OF POLES</b>	Three-pole
<b>DEGREE OF PROTECTION</b>	IP31 IP31 with door seals IP55 with protective cover
<b>CLOSING DELAY VIA SPRING RELEASE</b>	35 ms
<b>LIFESPAN, ELECTRICAL</b>	20000 operations (switching cycles ON/OFF, with maintenance) 10000 operations (switching capacity)
<b>TYPE</b>	<ul style="list-style-type: none"> <li>• Air circuit breakers/switch-disconnector</li> <li>• Open circuit breaker</li> </ul>
<b>SPECIAL FEATURES</b>	<ul style="list-style-type: none"> <li>• Main terminals must be separately ordered.</li> <li>• suitable for zone selectivity</li> <li>• optionally fittable by user with comprehensive accessories</li> </ul>

- 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)	1250 A
RATED SHORT-CIRCUIT BREAKING CAPACITY AT 400 V, 50 HZ	85 kA
RATED SHORT-CIRCUIT MAKING CAPACITY UP TO 440 V, 50/60 HZ	187 kA
RATED SHORT-CIRCUIT MAKING CAPACITY UP TO	166 kA

<b>690 V, 50/60 HZ</b>	
<b>RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)</b>	85 kA
<b>RATED SHORT-TIME WITHSTAND CURRENT AT 50/60 HZ (T = 3 S)</b>	66 kA
<b>RATED UNINTERRUPTED CURRENT (IU) AT 50°C</b>	1250 A
<b>RATED UNINTERRUPTED CURRENT (IU) AT 60°C</b>	1250 A
<b>RATED UNINTERRUPTED CURRENT (IU) AT 70°C</b>	1250 A
<b>SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN</b>	937.5 A
<b>TERMINAL CAPACITY (COPPER BAR)</b>	60 mm x 10 mm (1x) for fixed mounting (black)
<b>POWER LOSS</b>	60 W

<b>PROJECT NAME:</b>
<b>PROJECT NUMBER:</b>
<b>PREPARED BY:</b>
<b>DATE:</b>



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