

# Specifications



## Eaton 183597

Eaton Moeller series IZMX/INX - ACB. Circuit-breaker, 3 pole, 1250A, 85 kA, P measurement, IEC, Withdrawable

### General specifications

PRODUCT NAME	Eaton Moeller series IZMX/INX circuit-breaker
CATALOG NUMBER	183597
MODEL CODE	IZMX40N3-P12W-1
EAN	4015081793334
PRODUCT LENGTH/DEPTH	584 mm
PRODUCT HEIGHT	597 mm
PRODUCT WIDTH	521 mm
PRODUCT WEIGHT	69 kg
COMPLIANCES	IEC IEC/EN 60947 RoHS conform
GLOBAL CATALOG	183597

## 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-izm-x-inx-mccb-dimensions-015.eps</a>
	<a href="#">eaton-circuit-breaker-mounting-izm-x-inx-mccb-dimensions-002.eps</a>
	<a href="#">eaton-circuit-breaker-izm-x-inx-mccb-dimensions-014.eps</a>
	<a href="#">eaton-circuit-breaker-mounting-izm-x-inx-mccb-dimensions.eps</a>
<b>ECAD MODEL</b>	<a href="#">DA-CE-ETN.IZMX40N3-P12W-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-CD-izm-x40_3pol_w</a>
	<a href="#">DA-CS-izm-x40_3pol_w</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>	Withdrawable
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>	90 W
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	12 kV AC
<b>UTILIZATION CATEGORY</b>	B
<b>DEVICE CONSTRUCTION</b>	Built-in device slide-in technique (withdrawable)
<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>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>POWER OF WITHDRAWABLE SWITCH WITH CASSETTE</b>	90 W
<b>RATED INSULATION</b>	1000 V

<b>VOLTAGE (UI)</b>	
<b>LIFESPAN, MECHANICAL</b>	12500 switching cycles (ON/OFF) 25000 operations (switching capacity, with maintenance)
<b>OVERVOLTAGE CATEGORY</b>	III
<b>SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN</b>	0 A
<b>WEIGHT OF CASSETTE VERSION (3-POLE)</b>	29 kg
<b>WEIGHT OF FIXED WITHDRAWABLE VERSION (3-POLE)</b>	69 kg
<b>AMBIENT OPERATING TEMPERATURE DETAILS</b>	-20 °C - 70 °C
<b>PROTECTION</b>	P measurement
<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>• Cassette must be separately ordered.</li> <li>• External IZMX-DTP-PTM-1 voltage measuring module required (1 module</li> </ul>

is suitable for 16  
circuit breakers)

- IZMX-DTP-PTM  
external voltage  
measuring module  
required
- suitable for zone  
selectivity
- suitable for  
communication
- with integrated  
system monitor
- with integrated test  
possibility
- With graphic LCD  
display
- 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.

<b>CURRENT CIRCUIT</b>	
<b>RELEASE SYSTEM</b>	Electronic release
<b>RATED OPERATING VOLTAGE (UE) - MAX</b>	690 V
<b>RATED OPERATING VOLTAGE (UE) - MIN</b>	690 V
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	1250 A
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY AT 400 V, 50 HZ</b>	85 kA
<b>RATED SHORT-CIRCUIT MAKING CAPACITY UP TO 440 V, 50/60 HZ</b>	187 kA
<b>RATED SHORT-CIRCUIT MAKING CAPACITY UP TO 690 V, 50/60 HZ</b>	166 kA
<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 withdrawable units (black)
<b>POWER LOSS</b>	90 W

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



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