Specifications

Eaton 183724



Catalog Number: 183724

Eaton Moeller series IZMX/INX - ACB. Circuit-breaker, 3p, 3200A, 105 kA, Selective operation, IEC, Fixed

General specifications

Product Name
Eaton Moeller series IZMX/INX circuit-breaker

Catalog Number
183724

EAN
4015081794607

Product Length/Depth
584 mm

Product Height
597 mm

Product Width
521 mm

Product Weight
45 kg

Compliances
IEC/EN 60947
IEC
RoHS conform

Powering Business Worldwide

Delivery program

Type

Air circuit breakers/switch-disconnector
Open circuit breaker

Frame

IZMX40

Number of poles

Three-pole

Amperage Rating

3200 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)

3200 A

Rated uninterrupted current (Iu) at 50°C

3200 A

Rated uninterrupted current (Iu) at 60°C

3200 A

Rated uninterrupted current (Iu) at 70°C

3200 A

Rated short-time withstand current (t = 1 s)

85 kA

Rated short-time withstand current at 50/60 Hz (t = 3 s)

66 kA

Overload release current setting - min

1280 A

Overload release current setting - max

3200 A

Short-circuit release delayed setting - min

2400 A

Short-circuit release delayed setting - max

32000 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

48000 A

Adjustment range short-term delayed short-circuit release - min

1920 A

Adjustment range short-term delayed short-circuit release - max

32000 A

Adjustment range undelayed short-circuit release - min

6400 A

Adjustment range undelayed short-circuit release - max

48000 A

Rated short-circuit breaking capacity at 400 V, 50 Hz

105 kA

Rated short-circuit making capacity up to 440 V, 50/60 Hz

231 kA

Rated short-circuit making capacity up to 690 V, 50/60 Hz

166 kA

Power loss

385 W

Closing delay via spring release

35 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)

85 kA

Utilization category

B

Overvoltage category

III

Pollution degree

3

Direction of incoming supply

As required

Lifespan, electrical

10000 operations (switching cycles ON/OFF, with maintenance)

5000 operations (switching capacity)

Technical data - mechanical

Device construction

Built-in device fixed built-in technique

Mounting Method

Fixed

Degree of protection

IP55 with protective cover

IP31

IP31 with door seals

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 fixed mounting version (3-pole)

43 kg

Actuator type

Push button

Terminal capacity (copper bar)

80 mm x 10 mm (3x) for fixed mounting (black)

Lifespan, mechanical

10000 switching cycles (ON/OFF)

20000 operations (switching capacity, with maintenance)

Design verification as per IEC/EN 61439 - technical data

Rated operational current for specified heat dissipation (In)

3200 A

Equipment heat dissipation, current-dependent

385 W

Heat dissipation at rated current with fixed mounting

385 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 insulating material

Is the panel builder's responsibility.

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.

Additional information

Features

Motor drive optional

Complete device with protection unit

Fitted with:

Switched-off indicator

Special features

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

Resources

Catalogs

eaton-acb-izmx-catalog-ca01305001z-en-us.pdf

Declarations of conformity

DA-DC-03_IZMX40

DA-DC-03_IZMX40_111017

Drawings

eaton-circuit-breaker-mounting-izmx-inx-mccb-dimensions.eps

eaton-circuit-breaker-mounting-izmx-inx-mccb-dimensions-002.eps

eaton-circuit-breaker-izmx-inx-mccb-dimensions-013.eps

eCAD model

DA-CE-ETN.IZMX40H3-V32F-1

Installation videos

Air Circuit Breakers Series IZMX

Manuals and user guides

MN013002_EN

mCAD model

DA-CD-izmx40_3pol_f

DA-CS-izmx40_3pol_f

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