Select your language

- German
- English
- Spanish
- French
- Dutch
- Italian
- Polish
- Czech
- Russian
- Norw egian Bokmål

Worldwide English



ZIXX16B3-V10F-1 - Circuit-breaker, 3 pole, 1000A, 42 kA, Selective operation, IEC, Fixed



183328 IZMX16B3-V10F-1

Overview Specifications Resources



183328 IZMX16B3-V10F-1

Orcuit-breaker, 3 pole, 1000A, 42 kA, Selective operation, IEC, Fixed EL-Nummer (Norway) 4398002

Circuit-breaker IZIVX16 (Air circuit-breakers/switch-disconnectors), 3 pole, Current Range: Up to 4000 A, Rated current = rated uninterrupted current (In = Iu): 1000 A, up to 440 V 50/60 Hz (Icu): 42 kA, up to 440 V 50/60 Hz (Ics): 42 kA, Overload release, min.(Ir): 400 A, Overload release, max.(Ir): 1000 A, Installation type: Fixed, Standard/Approval: IEC, Protective function: Selective operation

- Delivery program
- Technical data
- Design verification as per IEC/EN 61439
- Technical data ETIM 7.0
- Dimensions

Delivery program

Product range

Air circuit-breakers/switch-disconnectors

Product range

Open circuit-breakers

Current Range

Up to 4000 A

Protective function

Selective operation

Installation type

Fixed

Main terminals must be separately ordered.

Construction size

IZMX16

Release system

Bectronic release

Standard/Approval

IEC

Number of poles

3 pole

Degree of Protection

IP31 with door seals, IP55 with protective cover

suitable for zone selectivity

optionally fittable by user with comprehensive accessories

Rated current = rated uninterrupted current [$I_n = I_u$]

1000 A

up to 440 V 50/60 Hz [l_{cu}] 42 kA up to 440 V 50/60 Hz [I_{cs}] 42 kA Overload release, min. [l_r] 400 A Overload release, max. [I_r] 1000 A Non-delayed $[I_i = I_n \times ...]$ 2 - 15, OFF Delayed $||\mathbf{l}|| = ||\mathbf{l}|| \times \dots = ||\mathbf{l}||$ 1.5 - 10

Technical data

General

Standards

IEC/EN 60947

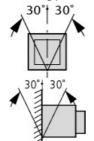
Ambient temperatureStorage [θ]

-20 - +70 °C

Ambient temperatureAmbient temperature

-20 - +70 °C

Mounting position



Utilization category

Degree of Protection

IP31 with door seals, IP55 with protective cover

Direction of incoming supply

as required

Main conducting paths

Rated current = rated uninterrupted current $[I_n = I_u]$

1000 A

Rated uninterrupted current at 50 °C [lu]

1000 A

Rated uninterrupted current at 60 °C [lu]

1000 A

Rated uninterrupted current at 70 °C [lu]

1000 A

Rated impulse withstand voltage [U_{mp}]

12000 V AC

Rated operational voltage [Ue]

690 V AC

Use in IT electrical power networks up to [U]

440 V

Overvoltage category/pollution degree

Rated insulation voltage [U]

1000 V

Switching capacity

Rated short-circuit making capacity [l_{cm}]up to 440 V 50/60 Hz [l_{cm}]

Rated short-circuit making capacity [l_{cm}]up to 690 V 50/60 Hz [l_{cm}]

88 kA

Rated short-time withstand current 50/60 Hzt = 1 s $[l_{cw}]$

42 kA

Rated short-circuit breaking capacity I_{cn} [I_{cn}] IEO/EN 60947 operating sequence I_{cu} O-t-COup to 240 V 50/60 Hz [I_{cu}]

42 kA

Rated short-circuit breaking capacity I_{cn} [I_{cn}] IEC/EN 60947 operating sequence I_{cu} O-t-OOup to 440 V 50/60 Hz [I_{cn}]

Rated short-circuit breaking capacity l_{cn} [l_{cn}] IEC/EN 60947 operating sequence l_{cu} O-t-OOup to 690 V 50/60 Hz [l_{cu}] $^{2/6}$

42 kA

Rated short-circuit breaking capacity l_{cn} [l_{cn}] IEC/EN 60947 operating sequence l_{cs} O-t-CO-t-COup to 240 V 50/60 Hz [l_{cs}]

]

42 kA

Rated short-circuit breaking capacity I_{cn} [I_{cn}] IEC/EN 60947 operating sequence I_{cs} O-t-OO-t-OOup to 440 V 50/60 Hz [I_{cs}

]

42 kA

Rated short-circuit breaking capacity l_{cn} [l_{cn}] IEC/EN 60947 operating sequence l_{cs} O-t-CO-t-COup to 690 V 50/60 Hz [l_{cs}]

i

42 kA

Operating timesClosing delay via spring release

30 ms

Operating times Total opening delay via shunt release

30 ms

Operating timesTotal opening delay via undervoltage release

50 ms

Operating timesTotal opening delay on non-delayed short-circuit release (up to complete arc quenching)

27 ms

LifespanLifespan, mechanical [Switching cycles (ONOFF)]

12500

LifespanLifespan, mechanical with maintenance [Switching cycles (ONOFF)]

25000

LifespanLifespan, electrical [Switching cycles (ONOFF)]

10000

LifespanLifespan, electrical with maintenance [Switching cycles (ONOFF)]

20000

Maximum operating frequency [Operations/h]

60

Heat dissipation at rated current InFixed mounting

92 W

Weight

Fixed mounting3-pole

19 kg

Terminal capacities

Copper barFixed mountingBlack

2 x 5 x 60 mm

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.

Permissible continuous current for circuit-breakers operating in switchboards at various internal ambient temperatures. The switchboard's internal ambient temperature should be estimated using the calculation methods of IEC regulation.

Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [In]

1000 A

Equipment heat dissipation, current-dependent [Pvid]

92 W

Operating ambient temperature min.

-20 °C

Operating ambient temperature max.

+70 °C

IEC/EN 61439 design verification

10.2 Strength of materials and parts 10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.2 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 10.2.7 Inscriptions

Meets the product standard's requirements.

10.3 Degree of protection of ASSEVBLIES

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 Insulation properties 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

10.9 Insulation properties 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.9 Insulation properties 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.

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss10.0.1-27-37-04-09 [AJZ716013])

Rated permanent current lu

1000 A

Rated voltage

690 - 690 V

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

42 kA

Overload release current setting

400 - 1000 A

Adjustment range short-term delayed short-circuit release

600 - 10000 A

Adjustment range undelayed short-circuit release

2000 - 15000 A

Integrated earth fault protection

No

Type of electrical connection of main circuit

Rail connection

Device construction

Built-in device fixed built-in technique

Suitable for DIN rail (top hat rail) mounting

Nh

DIN rail (top hat rail) mounting optional

Nh

Number of auxiliary contacts as normally closed contact

0

Number of auxiliary contacts as normally open contact

0

Number of auxiliary contacts as change-over contact

2

With switched-off indicator

Yes

With under voltage release

No

Number of poles

3

Position of connection for main current circuit

Back side

Type of control element

Push button

Complete device with protection unit

Yes

Motor drive integrated

No

Motor drive optional

Yes

Degree of protection (IP)

IP31

Dimensions



□ Door

☐ Contact surface flange terminal

CAD data

- Product-specific CAD data (Web)
- 3D Preview (Web)

DWG files

DA-CD-izmx16_3pol_f File (Web)

edz files

DA-CE-ETN.IZMX16B3-V10F-1
File
(Web)

Step files

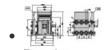
DA-CS-izmx16_3pol_f File (Web)

Product photo



sg05016 Photo IZMX16B, 3 pole, fixed mounting

Dimensions single product



1230DIM-382 Line drawing

□ Door

☐ Contact surface flange terminal



123N098

Line drawing Mounting position



Line drawing Mounting position

Tender text

• Tender text ZMX16B3-V10F-1 (TT-IZMX16B3-V10F-1-183328) (Microsoft Word)

Download-Center

• Download-Center (this item) Eaton EVEA Download-Center - download data for this item

 Download-Center Eaton EVEA Download-Center

Generate data sheet in PDF format

Generate data sheet in Excel format

 \Box Write a comment

Imprint Privacy Policy Legal Disclaimer Terms and Conditions © 2022 by Eaton Industries GmbH