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Worldwide English



IZMX16H3-V08W-1 - Circuit-breaker, 3 pole, 800A, 66 kA, Selective operation, IEC, Withdraw able



183352 IZMX16H3-V08W-1

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183352 IZMX16H3-V08W-1

Circuit-breaker, 3 pole, 800A, 66 kA, Selective operation, IEC, Withdraw able

EL-Nummer (Norway)

4398026

Circuit-breaker IZMX16 (Air circuit-breakers/switch-disconnectors), 3 pole, Current Range: Up to 4000 A, Rated current = rated uninterrupted current($I_n = I_u$): 800 A, up to 440 V 50/60 Hz(I_{cu}): 66 kA, up to 440 V 50/60 Hz(I_{cs}): 50 kA, Overload release, min.(I_r): 320 A, Overload release, max.(I_r): 800 A, Installation type: Withdraw able, Standard/Approval: IEC, Protective function: Selective operation

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

Withdrawable

Cassette must be separately ordered.

Main terminals must be separately ordered.

Construction size

IZMX16

Release system

Electronic release

Standard/Approval

IEC

Number of poles

3 pole

Degree of Protection

IP31 with door seals, IP55 with protective cover

suitable for zone selectivity

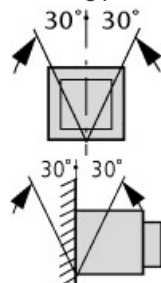
optionally fittable by user with comprehensive accessories

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

800 A
 up to 440 V 50/60 Hz [I_{cu}]
 66 kA
 up to 440 V 50/60 Hz [I_{cs}]
 50 kA
 Overload release, min. [I_r]
 320 A
 Overload release, max. [I_r]
 800 A
 Non-delayed $I_{>}$ [$I_t = I_n \times \dots$]
 2 - 15, OFF
 Delayed $I_{>}$ [$I_{sd} = I_r \times \dots$]
 1,5 - 10

Technical data

General
 Standards
 IEC/EN 60947
 Ambient temperature Storage [9]
 -20 - +70 °C
 Ambient temperature Ambient temperature
 -20 - +70 °C
 Mounting position



Utilization category
 B
 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 [$I_n = I_u$]
 800 A
 Rated uninterrupted current at 50 °C [I_u]
 800 A
 Rated uninterrupted current at 60 °C [I_u]
 800 A
 Rated uninterrupted current at 70 °C [I_u]
 800 A
 Rated impulse withstand voltage [U_{imp}]
 12000 V AC
 Rated operational voltage [U_e]
 690 V AC
 Use in IT electrical power networks up to [U]
 440 V
 Overvoltage category/pollution degree
 III/3
 Rated insulation voltage [U_i]
 1000 V
 Switching capacity
 Rated short-circuit making capacity [I_{cm}] up to 440 V 50/60 Hz [I_{cm}]
 145 kA
 Rated short-circuit making capacity [I_{cm}] up to 690 V 50/60 Hz [I_{cm}]
 88 kA
 Rated short-time withstand current 50/60 Hz $t = 1$ s [I_{cw}]
 42 kA
 Rated short-circuit breaking capacity I_{cn} [I_{cn}] IEC/EN 60947 operating sequence I_{cu} O-t-CO up to 240 V 50/60 Hz [I_{cu}]
 85 kA
 Rated short-circuit breaking capacity I_{cn} [I_{cn}] IEC/EN 60947 operating sequence I_{cu} O-t-CO up to 440 V 50/60 Hz [I_{cu}]
 66 kA

Rated short-circuit breaking capacity I_{cn} [kA] IEC/EN 60947 operating sequence I_{cu} O-t-COup to 690 V 50/60 Hz [I_{cu}] 42 kA

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

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

Rated short-circuit breaking capacity I_{cn} [kA] IEC/EN 60947 operating sequence I_{cs} O-t-CO-t-COup to 690 V 50/60 Hz [I_{cs}] 42 kA

Operating times Closing delay via spring release 30 ms

Operating times Total opening delay via shunt release 30 ms

Operating times Total opening delay via undervoltage release 50 ms

Operating times Total opening delay on non-delayed short-circuit release (up to complete arc quenching) 27 ms

Lifespan Lifespan, mechanical [Switching cycles (ON/OFF)] 12500

Lifespan Lifespan, mechanical with maintenance [Switching cycles (ON/OFF)] 25000.

Lifespan Lifespan, electrical [Switching cycles (ON/OFF)] 10000

Lifespan Lifespan, electrical with maintenance [Switching cycles (ON/OFF)] 20000.

Maximum operating frequency [Operations/h] 60

Heat dissipation at rated current I_n Withdrawable units (switch with cassette) 80 W

Weight

Withdrawable 3-pole 28 kg

Cassette 3 pole 18 kg

Terminal capacities

Copper bar Withdrawable units Black 2 x 5 x 50 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 [I_n] 800 A

Equipment heat dissipation, current-dependent [P_{ed}] 80 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 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 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 I_n
800 A

Rated voltage
690 - 690 V

Rated short-circuit breaking capacity I_{cu} at 400 V, 50 Hz
65 kA

Overload release current setting
320 - 800 A

Adjustment range short-term delayed short-circuit release
480 - 8000 A

Adjustment range undelayed short-circuit release
1600 - 12000 A

Integrated earth fault protection
No

Type of electrical connection of main circuit
Rail connection

Device construction
Built-in device slide-in technique (withdrawable)

Suitable for DIN rail (top hat rail) mounting
No

DIN rail (top hat rail) mounting optional
No

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

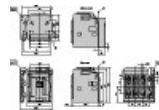
Motor drive optional

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_w](#)
File
(Web)

edz files

- [DA-CE-ETN.IZMX16H3-V08W-1](#)
File
(Web)

Step files

- [DA-CS-izmx16_3pol_w](#)
File
(Web)

Product photo

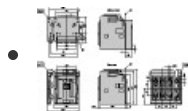


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Photo

IZMX16B, 3 pole, withdraw able units

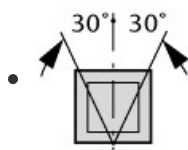
Dimensions single product



[1230DIM-384](#)

Line drawing

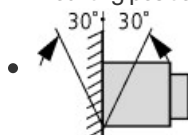
- ☐ Door
- ☐ Contact surface flange terminal



[123N098](#)

Line drawing

Mounting position



[123N099](#)

Line drawing

Mounting position

Tender text

- [Tender text ZMX16H3-V08W-1 \(TT-ZMX16H3-V08W-1-183352\)](#)
 (Microsoft Word, de)

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