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Worldwide English



Powering Business Worldwide

IZMX16H4-V08W-1 - Circuit-breaker, 4 pole, 800A, 66 kA, Selective operation, IEC, Withdraw able



183570 IZMX16H4-V08W-1

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183570 IZMX16H4-V08W-1

Circuit-breaker, 4 pole, 800A, 66 kA, Selective operation, IEC, Withdraw able

EL-Nummer (Norway)

4398124

Circuit-breaker IZMX16 (Air circuit-breakers/switch-disconnectors), 4 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

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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

Withdraw able

Cassette must be separately ordered.

Main terminals must be separately ordered.

Construction size

IZMX16

Release system

Electronic release

Standard/Approval

IEC

Number of poles

4 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}]

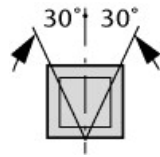
66 kA

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 $I_r > I_n$ [$I_r = I_n \times \dots$]
 2 - 15, OFF
 Delayed $I_r > I_{sd}$ [$I_{sd} = I_r \times \dots$]
 1,5 - 10

Technical data

General
 Standards
 IEC/EN 60947
 Ambient temperatureStorage [9]
 -20 - +70 °C
 Ambient temperatureAmbient 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_b]
 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} [I_{cn}] IEC/EN 60947 operating sequence I_{cu} O-t-CO up to 690 V 50/60 Hz [I_{cu}]
 42 kA
 Rated short-circuit breaking capacity I_{cn} [I_{cn}] IEC/EN 60947 operating sequence I_{cs} O-t-CO-t-CO up to 240 V 50/60 Hz [I_{cs}]
 50 kA
 Rated short-circuit breaking capacity I_{cn} [I_{cn}] IEC/EN 60947 operating sequence I_{cs} O-t-CO-t-CO up to 440 V 50/60 Hz [I_{cs}]
]

50 kA
 Rated short-circuit breaking capacity I_{cn} [I_{cn}] IEC/EN 60947 operating sequence I_{cs} O-t-CO-t-CO up 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 4-pole
 33 kg
 Cassette 4 pole
 21 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

4
 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_4pol_w](#)
 File
 (Web)

edz files

- [DA-CE-ETN.IZMX16H4-V08W-1](#)
 File
 (Web)

Step files

- [DA-CS-izmx16_4pol_w](#)
 File
 (Web)

Product photo



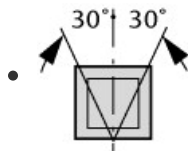
[sg04716](#)

Photo

IZMX16B, 4 pole, withdraw able units

Dimensions single product

- ☐ [1230DIM-384](#)
 Line drawing
☐ Door
☐ Contact surface flange terminal



[123N098](#)

Line drawing

Mbunting position



[123N099](#)

Line drawing

Mbunting position

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