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ZMX40H4-P32W-1 - Circuit-breaker, 4 pole, 3200A, 105 kA, P measurement, IEC, Withdraw able



#### 183801 IZMX40H4-P32W-1 Overview Specifications Resources 요요모



# 183801 IZMX40H4-P32W-1

Orcuit-breaker, 4 pole, 3200A, 105 kA, P measurement, IEC, Withdraw able EL-Nummer (Norw ay) 4398291

Circuit-breaker IZIVX40 (Air circuit-breakers/switch-disconnectors), 4 pole, Current Range: Up to 4000 A, Rated current = rated uninterrupted current(In = Iu): 3200 A, up to 440 V 50/60 Hz(Icu): 105 kA, up to 440 V 50/60 Hz(Ics): 105 kA, Overload release, min.(Ir): 1280 A, Overload release, max.(Ir): 3200 A, Installation type: Withdraw able, Standard/Approval: IEC, Protective function: P measurement

- 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 **Ourrent Range** Up to 4000 A Protective function Preasurement Installation type Withdraw able Cassette must be separately ordered. IZMX-DTP-PTM external voltage measuring module required Construction size IZMX40 Release system **Bectronic release** Standard/Approval IEC Number of poles 4 pole Degree of Protection IP31 with door seals, IP55 with protective cover suitable for zone selectivity suitable for communication with integrated systemmonitor with integrated test possibility With graphic LCD display

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optionally fittable by user with comprehensive accessories

Rated current = rated uninterrupted current [l_h = l_u]

3200 A

up to 440 V 50/60 Hz [l_{cu}]

105 kA

up to 440 V 50/60 Hz [l_{cs}]

105 kA

Overload release, min. [l_r]

1280 A

Overload release, max. [l_r]

3200 A

Non-delayed [l_r] = l_h \times ...]

2 - 15, OFF

Delayed [l_{sd} = l_r \times ...]

1.5 - 10
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### **Technical data**

General Standards IEC/EN 60947 Ambient temperatureStorage [ $\vartheta$ ] -20 - +70 °C Ambient temperatureAmbient temperature -20 - +70 °C Mounting position 30°† 30 30 30 Utilization category В 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  $[I_n = I_u]$ 3200 A Rated uninterrupted current at 50 °C [lu] 3200 A Rated uninterrupted current at 60 °C [lu] 3200 A Rated uninterrupted current at 70 °C [lu] 3200 A Rated impulse withstand voltage [U<sub>mp</sub>] 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 Ⅲ/3 Rated insulation voltage [U] 1000 V Switching capacity Rated short-circuit making capacity [Icm]up to 440 V 50/60 Hz [Icm] 231 kA Rated short-circuit making capacity [Icm]up to 690 V 50/60 Hz [Icm] 166 kA Rated short-time withstand current 50/60 Hzt = 1 s  $[I_{cw}]$ 85 kA Rated short-time withstand current 50/60 Hzt =  $3 \text{ s} [I_{cw}]$ 66 kA

Rated short-circuit breaking capacity I<sub>cn</sub> [I<sub>cn</sub>]EC/EN 60947 operating sequence I<sub>c1</sub> O-t-OOup to 240 V 50/60 Hz [I<sub>c1</sub>] 105 kA Rated short-circuit breaking capacity I<sub>cn</sub> [I<sub>cn</sub>]EC/EN 60947 operating sequence I<sub>c1</sub> O-t-COup to 440 V 50/60 Hz [I<sub>c1</sub>] 105 kA Rated short-circuit breaking capacity I<sub>cn</sub> [I<sub>cn</sub>] IEC/EN 60947 operating sequence I<sub>cu</sub> O-t-COup to 690 V 50/60 Hz [I<sub>cu</sub>] 85 kA Rated short-circuit breaking capacity Icn [Icn] IEC/EN 60947 operating sequence Ics O-t-CO-t-CO-up to 240 V 50/60 Hz [Ics 105 kA Rated short-circuit breaking capacity Icn [Icn] IEC/EN 60947 operating sequence Ics O-t-OO-t-OOup to 440 V 50/60 Hz [Ics 105 kA Rated short-circuit breaking capacity Icn [Icn] IEC/EN 60947 operating sequence Ics O-t-OO-t-OOup to 690 V 50/60 Hz [Ics 75 kA Operating timesClosing delay via spring release 35 ms Operating times Total opening delay via shunt release 35 ms Operating times Total opening delay via undervoltage release 40 ms Operating timesTotal opening delay on non-delayed short-circuit release (up to complete arc quenching) 52 ms LifespanLifespan, mechanical [Switching cycles (ONOFF)] 10000 LifespanLifespan, mechanical with maintenance [Switching cycles (OWOFF)] 20000. LifespanLifespan, electrical [Switching cycles (ONOFF)] 5000 LifespanLifespan, electrical with maintenance [Switching cycles (ONOFF)] 10000. Maximum operating frequency [Operations/h] 60 Heat dissipation at rated current InWithdraw able units (switch with cassette) 560 W Weight Withdraw able4-pole 86 kg Cassette4 pole 35 kg Terminal capacities Copper barWithdraw able unitsBlack 3 x 80 x 10 mm These are values used in separate switchgear. The actual values will depend on the temperature around the circuitbreaker, 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.

#### Notes

External IZMX-DTP-PTM-1 voltage measuring module required (1 module is suitable for 16 circuit-breakers)

### Design verification as per IEC/EN 61439

Technical data for design verification Rated operational current for specified heat dissipation [In] 3200 A Equipment heat dissipation, current-dependent [P<sub>vid</sub>] 560 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 Neets 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 parts10.2.3.2 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 parts10.2.4 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 parts10.2.7 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 Pow er-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 3200 A Rated voltage 690 - 690 V Rated short-circuit breaking capacity Icu at 400 V, 50 Hz 105 kA Overload release current setting 1280 - 3200 A Adjustment range short-term delayed short-circuit release 1920 - 32000 A Adjustment range undelayed short-circuit release 6400 - 48000 A Integrated earth fault protection Nb 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 Nh

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



□ Contact surface flange terminal

## CAD data

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

### DWG files

 DA-CD-izmx40\_4pol\_w File (Web)

### edz files

• DA-CE-ETN.IZMX40H4-P32W-1 File (Web)

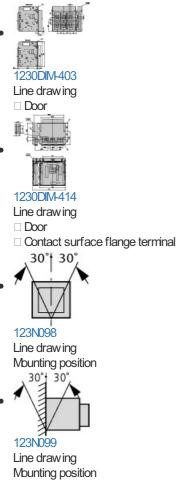
### Step files

 DA-CS-izmx40\_4pol\_w File (Web)

## Product photo



## Dimensions single product



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