

Part no. Article no. IZMX16B4-A06W 123201



Delivery program

| Product range | | | Air circuit-breakers/switch-disconnectors |
|--|-----------------------------------|----|--|
| Product range | | | Open circuit-breakers |
| Current Range | | | Up to 4000 A |
| Protective function | | | System protection |
| Installation type | | | Withdrawable |
| Construction size | | | IZMX16 |
| Release system | | | Electronic release |
| Standard/Approval | | | IEC |
| Number of poles | | | 4 pole |
| Degree of Protection | | | IP20, IP55 with protective cover, IP41 door sealing frame |
| | | | optionally fittable by user with comprehensive accessories |
| Rated current = rated uninterrupted current | $I_n = I_u$ | А | 630 |
| Bemessungsgrenzkurzschlussausschaltvermögen bis 440V/690V 42/42 | l _{cu} | kA | 42 |
| Bemessungsbetriebskurzschlussausschaltvermögen bis 440V/690V 42/42 | I _{cs} | kA | 42 |
| Overload release, min. | l _r | А | 315 |
| Overload release, max. | l _r | А | 630 |
| Non-delayed | l _i = l _n x | | 2 - 12 |
| Notes | | | |
| Main terminals must be separately ordered. | | | |
| Note concerning the product | | | |
| Cassette needs to be ordered separately. | | | |

Technical data

| General | | | |
|---|----------------|----|---|
| Standards | | | IEC/EN 60947 |
| Ambient temperature | | | |
| Storage | 9 | °C | -40 - +70 |
| Operating (open) | | °C | -25 - +70 |
| Mounting position | | | 30° 30° |
| | | | 30° 30° |
| Utilization category | | | В |
| Degree of Protection | | | IP20, IP55 with protective cover, IP41 door sealing frame |
| Direction of incoming supply | | | as required |
| Main conducting paths | | | |
| Rated current = rated uninterrupted current | $I_n = I_u$ | А | 630 |
| Rated uninterrupted current at 50 °C | l _u | А | 630 |
| Rated uninterrupted current at 60 °C | lu | А | 630 |
| | | | |

| Rated uninterrupted current at 70 °C | l _u | A | 630 |
|--|----------------------------------|-------|--|
| Rated impulse withstand voltage | U _{imp} | V AC | 12000 |
| Rated operational voltage | U _e | V AC | 690 |
| Use in IT electrical power networks up to U = 440 V | IIT | kA | 23 |
| Overvoltage category/pollution degree | | | 111/3 |
| Rated insulation voltage | Ui | V | 1000 |
| Switching capacity | | | |
| Rated short-circuit making capacity | I _{cm} | | |
| up to 440 V 50/60 Hz | I _{cm} | kA | 88 |
| up to 690 V 50/60 Hz | I _{cm} | kA | 88 |
| Rated short-time withstand current 50/60 Hz | | | |
| t = 1 s | I _{cw} | kA | 42 |
| 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 | l _{cu} | kA | 42 |
| up to 440 V 50/60 Hz | I _{cu} | kA | 42 |
| up to 690 V 50/60 Hz | I _{cu} | kA | 42 |
| IEC/EN 60947 operating sequence I _{cs} 0-t-C0-t-C0 | ·cu | | - |
| up to 240 V 50/60 Hz | | kA | 42 |
| • | I _{cs} | | |
| up to 440 V 50/60 Hz | I _{cs} | kA | 42 |
| up to 690 V 50/60 Hz | I _{cs} | kA | 42 |
| Operating times | | | |
| Closing delay via spring release | | ms | 30 |
| Total opening delay via shunt release | | ms | 25 |
| Total opening delay via undervoltage release | | ms | 50 |
| | | | |
| Total opening delay on non-delayed short-circuit release (up to complete arc quenching) | | ms | 25 |
| Lifespan | | S | |
| Lifespan, mechanical | Switching | | 12500 |
| | cycles (ON/ OFF) | | |
| Lifespan, mechanical with maintenance | Switching cycles (ON/ OFF) | | 20000 |
| Lifespan, electrical | Switching cycles (ON/ OFF) | | 10000 |
| Lifespan, electrical with maintenance | Switching cycles (ON/ | | 10000 |
| • | OFF) | | |
| Maximum operating frequency | Operations/h | | 60 |
| Heat dissipation at rated current In | | | |
| Withdrawable units (switch with cassette) | | W | 50 |
| Weight Withdrawable | | | |
| 3-pole | | kg | 28 |
| 4-pole | | kg | 33 |
| Cassette | | 9 | |
| 3 pole | | kg | 18 |
| 4 pole | | kg | 21 |
| Terminal capacities | | ··· J | |
| Copper bar | | | |
| Fixed mounting | | | |
| Black | | mm | 2 × 5 × 50 |
| Withdrawable units | | | |
| Black | | mm | 2 x 5 x 50 |
| | | | 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 crosssectional 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

| observed. | | | | |
|---|--|------------------|----|--|
| Equipment heat dissipation, current-dependent Puese W Operating ambient temperature min. ************************************ | Technical data for design verification | | | |
| Operating ambient temperature min. C 25 Operating ambient temperature max. C 70 102.5 trength of materials and parts C 70 102.2 Corrusion resistance Meets the product standard's requirements. C 102.3.1 Verification of tremad stability of enclosures Meets the product standard's requirements. C 102.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Meets the product standard's requirements. Meets the product standard's requirements. 102.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Meets the product standard's requirements. 102.3 Verification of Assective MLES Does not apply, since the entre switchgear needs to be evaluated. 102.2 Inscriptions Meets the product standard's requirements. 103.0 Segree of protection of ASSEMBLIES Meets the product standard's requirements. 103.1 Segree of protection against electric shock Does not apply, since the entre switchgear needs to be evaluated. 104.2 Reserval a conductors E Meets the product standard's requirements. 103.0 Segree of protection of switching devices and components E Meets the product standard's requirements. | Rated operational current for specified heat dissipation | In | А | 630 |
| Interaction Constraint Constraint <thconstraint< th=""> Constraint Constra</thconstraint<> | Equipment heat dissipation, current-dependent | P _{vid} | W | 50 |
| ECCEN 6143 esign verification 102.2 Strength of materials and parts Meets the product standard's requirements. 102.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements. 102.3.2 Verification of resistance of insulating materials to abnormal heat Meets the product standard's requirements. 102.3.2 Verification of resistance of insulating materials to abnormal heat Meets the product standard's requirements. 102.3.2 Verification of resistance of insulating materials to abnormal heat Meets the product standard's requirements. 102.4 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements. 102.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 102.7 Inscriptions Meets the product standard's requirements. 103.0 Degree of protection of ASSEMBLIES Does not apply, since the entire switchgear needs to be evaluated. 104.1 Clearances and creepage distances Meets the product standard's requirements. 105.2 Protection against electric strength Is the panel builder's responsibility. 105.3 Incorporation Section of switching devices and components 105.3 Incorporation of switching devices and components Is the panel builder's responsibility. 105.3 Insulation properties Is the panel builder's responsibility. | Operating ambient temperature min. | | °C | -25 |
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| 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 abnormal heat and fire due to internal electric effects Meets the product standard's requirements. 10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated. 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 Meets the product standard's requirements. 10.8 Connections for external conductors Meets the product standard's requirements. 10.9 Insulation properties Is the panel builder's responsibility. 10.9 Insulation properties Is the panel builder's responsibility. 10.9 Insulation genetic strength Is the panel builder's responsibility. <td>IEC/EN 61439 design verification</td> <td></td> <td></td> <td></td> | IEC/EN 61439 design verification | | | |
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| | 10.12 Electromagnetic compatibility | | | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| | 10.13 Mechanical function | | | |

Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation prot. (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@ss8.1-27-37-04-09 [AJZ716010])

| Rated permanent current lu | А | 630 |
|---|----|---|
| Rated voltage | V | 690 - 690 |
| Rated short-circuit breaking capacity Icu at 400 V, 50 Hz | kA | 42 |
| Overload release current setting | А | 315 - 630 |
| Adjustment range short-term delayed short-circuit release | А | 0 - 0 |
| Adjustment range undelayed short-circuit release | А | 1260 - 7560 |
| 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 |
| Switched-off indicator available | 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) | IP20 |