

Part no. Article no. IZMX16N4-U12F 123504



Delivery programme

| Product range | | | Air circuit-breakers/switch-disconnectors |
|-------------------------------------------------------------|-----------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product range | | | Open circuit-breakers |
| Current Range | | | Up to 4000 A |
| Protective function | | | Universal protection |
| Installation type | | | Fixed |
| 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 |
| | | | suitable for zone selectivity suitable for communication integrated system monitor and 4-character display optionally fittable by user with comprehensive accessories |
| Rated current = rated uninterrupted current | $I_n = I_u$ | А | 1250 |
| Breaking capacity Icu = Ics to 440 V 50/60 Hz | I _{cu} | kA | 50 |
| Breaking capacity Ics to 440 V 50/60 Hz | I _{cs} | kA | 50 |
| Overload release, min. | l _r | А | 625 |
| Overload release, max. | l _r | А | 1250 |
| Non-delayed | l _i = l _n x | | 2 - 12, OFF |
| Delayed | $I_{sd} = I_r x \dots$ | | 2 - 10 |
| Notes | | | |
| Main terminals not included, need to be ordered separately. | | | |

Technical data

| General | | | |
|---------------------------------------------|-------------|----|-----------------------------------------------------------|
| Standards | | | IEC/EN 60947 |
| Ambient temperature | | | |
| Storage | 9 | °C | -25 - +70 (device with LCD-display -20 - +70) |
| Operating (open) | | °C | -25 - +70 (device with LCD-display -20 - +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 | $I_n = I_u$ | Α | 1250 |
| | | | |

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| Read evaluation study and starting starti | • | | | |
| Image: space s | | | | |
| Rank production largerUVADSecond production largerUse information largerUVVRecent production largerUVV< | | | | |
| Use IT alcosed approvemented way U-449InInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInInIn< | | | | |
| Non-whate states when the set of the se | Rated operational voltage | U _e | V AC | 690 |
| initial bank consistionuvvvShifter capacityIIIinitial bank constants questionIIIIinitial bank constant questionIIIIinitial bank constant questionIIIIinitial bank constant questionIIIIinitial bank constant questionIIIIinitial bank constan | Use in IT electrical power networks up to U = 440 V | IIT | kA | 23 |
| Note intervalue specifyRand and capacity specifyIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII </td <td>Overvoltage category/pollution degree</td> <td></td> <td></td> <td>III/3</td> | Overvoltage category/pollution degree | | | III/3 |
| Rever contracting regardsNoteNoteNotein the VSBM inNoteNoteNotein the VSBM in the VSBM inNoteNotein the VSBM in the VSBM inNo | | Ui | V | 1000 |
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| up to 500 V 5000 /rImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImpImp <t< td=""><td>Rated short-circuit making capacity</td><td>I_{cm}</td><td></td><td></td></t<> | Rated short-circuit making capacity | I _{cm} | | |
| Attachan-sine withstand carent 5000 fV Image: space spac | up to 440 V 50/60 Hz | I _{cm} | kA | 105 |
| i = 1 aiveiveiRied short pircular shapen sequence in a thort pircular shapen | up to 690 V 50/60 Hz | I _{cm} | kA | 88 |
| Rate data-circuit braking capacity log Main Main <td>Rated short-time withstand current 50/60 Hz</td> <td></td> <td></td> <td></td> | Rated short-time withstand current 50/60 Hz | | | |
| EICEN 80047 joerating sequence lg, 04-00IgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnIgnI | t = 1 s | I _{cw} | kA | 42 |
| up to 240 Y 0000 hz kg Ka Second | Rated short-circuit breaking capacity I _{cn} | I _{cn} | | |
| up to 440 Y 3000 Hz ka ka A up to 500 Y 5000 Hz Hz Ka 4 up to 500 Y 5000 Hz Hz Ka 5 up to 400 Y 3000 Hz Hz Ka 6 up to 400 Y 3000 Hz Hz Ka 6 up to 400 Y 3000 Hz Hz Ka 6 Up to 500 Y 5000 Hz Hz Ka 6 Up to 500 Y 5000 Hz Hz Ka 6 Checking imms Ka 6 6 Up span, mechanical Sketching imms 6 6 Uf span, mechanical with maintenance Sketching imms 6 6 | IEC/EN 60947 operating sequence I _{cu} O-t-CO | | | |
| up to 40 Y 390 HzNuNuNuSequenceup to 30 Y 390 HzNuSequenceSequenceUp 10 24 Y 390 HzNuSequenceSequenceup to 30 Y 390 HzNuSequenceSequenceup to 30 Y 390 HzNuSequenceSequenceup to 30 Y 390 HzNuSequenceSequenceClaim delay is principal escNuSequenceSequenceClaim delay is principal escNuSequenceSequenceTotal opening delay on and elay at antir classeNuSequenceSequenceTotal opening delay on and elay at antir classeNuSequenceSequenceTotal opening delay on and elay at antir classeNuSequenceSequenceUsegan, mechanicalNuNuSequenceSequenceUsegan, mechanical with maintenanceNuNuSequenceUsegan, nechanical with maintenanceNuNuSequenceSequenceNu </td <td>up to 240 V 50/60 Hz</td> <td>I_{cu}</td> <td>kA</td> <td>85</td> | up to 240 V 50/60 Hz | I _{cu} | kA | 85 |
| up to 600 V 5060 ht/rImage of a sequence leg 0+CO-LGOImage of a sequence leg 0+CO-LG | up to 440 V 50/60 Hz | | kA | 50 |
| Interpretation sequence I = 0 C - C - C - C - C - C - C - C - C | | | | |
| up to 240 Y50/60 H2 Is Ka Ka Solution up to 440 Y50/60 H2 Is Ka Solution Solution up to 850 Y50/60 H2 Is Ka Solution Solution Operating times Is Solution Solution Solution Closing delay via shurt rolesse Is Solution Solution Solution Total opening delay via undervoltage relesse Is Solution Solution Solution Total opening delay via undervoltage relesse Is Is Solution Solution Urbspan, mechanical Solution Is Solution So | | UU . | | |
| up to 440 YS060 Hz Ks Ks Ka Solution up to 550 YS060 Hz Ls Ka 42 Oberation times | | | k۸ | 50 |
| up to 890 V30/60 Hz rs Ka Ka <td></td> <td></td> <td></td> <td></td> | | | | |
| Operating times Image: Section of the sec | | | | |
| Closing delay via shurt release 1 3 Total opening delay via shurt release 5 Total opening delay via undervotage release 5 Total opening delay v | | I _{cs} | kA | 42 |
| Total opening delay via undervoltage release mms 5 Total opening delay via undervoltage release mms 50 Total opening delay on non-delayed short-circuit release (up to complete argumenthing) mms 25 Lifespan, mechanical Switching 2000 Lifespan, mechanical with maintenance Switching 2000 Lifespan, electrical Switching 2000 Lifespan, electrical with maintenance Switching 2000 Vergles (OW OFF) 0000 0000 Aminum operating frequency Operationsh 0000 Heat dissipation at rated current In W 132 Fixed mounting 24 24 Synole M 24 Terminal capacities M 25 Fixed mounting M M 25 Fixed mounting M <td></td> <td></td> <td></td> <td></td> | | | | |
| Total opening delay via undervoltage roleose Image: Solution of the second of the | | | ms | 30 |
| Idea and a constraint of a cons | | | ms | |
| quenching s Itegan s Lifespan, mechanical Svitching orpersion s s Lifespan, mechanical with maintenance Svitching orpersion s s Lifespan, mechanical with maintenance Svitching orpersion s s Lifespan, electrical Svitching orpersion s s Lifespan, electrical with maintenance Svitching orpersion s s Maximum operating frequency Operations/ orpersions/ orpersions/ orpersions/ orpersions/ orpersions/ orpersions/ orpersions/ orpersions/ orpersions/ s s Fixed mounting Wait Itemation s s 3-pole kg 19 s s 4-pole kg 19 s s s Biack mm 2x 5 x 80 s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s <td< td=""><td>Total opening delay via undervoltage release</td><td></td><td>ms</td><td>50</td></td<> | Total opening delay via undervoltage release | | ms | 50 |
| quenching s Itegan s Lifespan, mechanical Svitching orpersion s s Lifespan, mechanical with maintenance Svitching orpersion s s Lifespan, mechanical with maintenance Svitching orpersion s s Lifespan, electrical Svitching orpersion s s Lifespan, electrical with maintenance Svitching orpersion s s Maximum operating frequency Operations/ orpersions/ orpersions/ orpersions/ orpersions/ orpersions/ orpersions/ orpersions/ orpersions/ orpersions/ s s Fixed mounting Wait Itemation s s 3-pole kg 19 s s 4-pole kg 19 s s s Biack mm 2x 5 x 80 s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s <td< td=""><td></td><td></td><td></td><td></td></td<> | | | | |
| Lifespan, mechanical Switching cycles (ON cycles | | | ms | 25 |
| Lifespan, mechanical Switching cycles (ON cycles | Lifespan | | S | |
| Cycles (OV OFF) Cycles (OV OFF) Lifespan, mechanical with maintenance Switching cycles (OV OFF) 2000 Lifespan, electrical Switching cycles (OV OFF) 000 Lifespan, electrical with maintenance Switching cycles (OV Cycles (OV OFF) 10000 Maximum operating frequency Operationsh cycles (OV Cycles | • | Switching | | 12500 |
| Lifespan, mechanical with maintenance Switching cycles (0N) OFF 2000 Lifespan, electrical Switching cycles (0N) OFF 0000 Lifespan, electrical with maintenance Switching cycles (0N) OFF 0000 Maximum operating frequency Operationsh 0 0 Heat dissipation at rated current In OP 0 0 Fixed mounting V 13 0 Spole Kg 1000 0 0 Spole V 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | |
| if espan, electrical cycles (DV) cycles (DV) | Lifespan, mechanical with maintenance | | | 20000 |
| system system< | | cycles (ON/ | | |
| OFF OFF Lifespan, electrical with maintenance Switching cycles (DN, | Lifespan, electrical | | | 10000 |
| Lifespan, electrical with maintenance Switching cycles (0Ny OFF) 1000 Maximum operating frequency Operations/h 6 Heat dissipation at rated current I _n Maximum operating frequency 6 Fixed mounting V 132 Weight Fixed mounting Image: Space Spa | | | | |
| cycles (0N/ OFF off Maximum operating frequency Operations/H 6 Heat dissipation at rated current In V 132 Fixed mounting V 132 Weight V 132 Fixed mounting V 19 3-pole kg 19 4-pole kg 19 Fixed mounting Kg 19 Fixed mounting Kg 10 Fixed mounting Kg 10 Fixed mounting Kg 10 Fixed mounting Kg 10 Back Kg 10 Fixed mounting Kg 10 Black Kg 10 Black Kg 10 Black Kg 10 Fixed mounting Kg 10 Fixed mounting Kg 10 Fixed mou | Lifespan, electrical with maintenance | Switching | | 10000 |
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| Heat dissipation at rated current In Image: Second constraints Fixed mounting W 32 Weight | Maximum operating frequency | | | 60 |
| Fixed mounting W 132 Weight Fixed mounting 3-pole Mg I 4-pole Mg 19 Copper bar Fixed mounting Mg 24 Black Mm Withdrawable units Mm 2x 5x 80 Black Mm 2x 5x 80 Mithdrawable units Mm 2x 5x 80 | | oporutiona/II | | |
| Weight Key mounting Image: Second secon | | | ۱۸/ | 199 |
| Fixed mountingImage: second secon | | | | 102 |
| 3-pole kg 9 4-pole kg 24 Terminal capacities Copper bar Marcolspan="2">Fixed mounting Black mm 2x 5x 80 Withdrawable units mm 2x 5x 80 Black mm 2x 5x 80 Black mm 2x 5x 80 Black mm 2x 5x 80 | | | | |
| 4-pole kg 4-pole kg 24 Terminal capacities Copper bar Image: Company of the second of th | - | | kg | 19 |
| Terminal capacities Copper bar Image: Copper bar Fixed mounting Image: Copper bar Black mm 2x 5 x 80 Withdrawable units Image: Copper bar 2x 5 x 80 Black mm 2x 5 x 80 Black mm 2x 5 x 80 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 | | | | |
| Fixed mounting Image: Constraint of the second of the se | Terminal capacities | | | |
| Black mm 2 x 5 x 80 Withdrawable units mm 2 x 5 x 80 Black mm 2 x 5 x 80 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 | Copper bar | | | |
| Withdrawable units Image: Constraint of the second secon | Fixed mounting | | | |
| Black mm 2 x 5 x 80 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 | Black | | mm | 2 x 5 x 80 |
| 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 | Withdrawable units | | | |
| the temperature around the circuit-breaker, which is influenced by the ambient | Black | | mm | 2 x 5 x 80 |
| | | | | |

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

| Technical data for design verification | | | |
|------------------------------------------------------------------------------------------------------------------------|------------------|----|----------------------------------------------------------------------------------------------------------------------------------|
| Rated operational current for specified heat dissipation | In | А | 1250 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 132 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 70 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures | | | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | | | Meets the product standard's requirements. |
| 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. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | | | Meets the product standard's requirements. |
| 10.2.5 Lifting | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 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. |
| 10.9.3 Impulse withstand voltage | | | Is the panel builder's responsibility. |
| 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 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 A Rated voltage V Rated short-circuit breaking capacity lcu at 400 V, 50 Hz kk | 1 | 1250 |
|--------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------|
| | | 1230 |
| Bated short-circuit breaking capacity Icu at 400 V 50 Hz | 6 | 590 - 690 |
| | A 5 | 50 |
| Overload release current setting A | 6 | 525 - 1250 |
| Adjustment range short-term delayed short-circuit release A | 2 | 2500 - 12500 |
| Adjustment range undelayed short-circuit release A | 2 | 2500 - 15000 |
| Integrated earth fault protection | N | No |
| Type of electrical connection of main circuit | R | Rail connection |
| Device construction | В | Built-in device fixed built-in technique |
| Suitable for DIN rail (top hat rail) mounting | N | No |
| DIN rail (top hat rail) mounting optional | N | No |

| Number of conditions contacts as many all sales of contact | |
|------------------------------------------------------------|-------------|
| 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 |

Dimensions

