DATASHEET - FAZ-Z40/1

Miniature circuit breaker (MCB), 40 A, 1p, characteristic: Z



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| Compliance III CSADD (with supplementary protector only) Detifications III CSADD (with supplementary protector only) Product Trademame III CSADD (with supplement | - | | | 17.7 millimetre |
| Compliances IL CSA8 (0001) supplementary protector why) Betrifications IL CSA8 (0001) CSA (022 ND 28) CSA (022 ND 28) CSA (022 ND 28) CSA (022 ND 28) Sector Annue (III CSA8) CSA (022 ND 28) Product Tradename CSA (022 ND 28) Product Tradename CSA (028 ND 27) Product Tradename CSA (028 ND 28) Product Tradename SSA (028 ND 28) Number of polos (0000000 SSA (028 ND 28) | Product weight | | | 0.116 kilogram |
| SSA C22 No. 235SSA C22 No. 23 | Compliances | | | UL CSA09 (with supplementary protector only) |
| Product Type MCB Product Sub Type None Delivery program None Application Branch circuits, not as BCPD Number of poles Switchgear for industrial and advanced commercial applications xtHeet- Switchgear for industrial and advanced commercial applications for the switchgear for industrin advanced commercia | Certifications | | | CSA-C22.2 No. 235 CSA (File No. 204453) CE marking UL (Category Control Number QVNU2, QVNU8) North America (UL recognized, CSA certified) CSA (Class No. 3215-30) UL 1077 IEC/EN 60898 UL (File No. E177451) IEC 61373 |
| Product Sub Type None Delivery program Branch circuits, not as BCPD. Application Branch circuits, not as BCPD. Number of poles Single-pole Number of poles (total) Single-pole Number of poles (protected) I Number of poles (protected) I Number of poles (protected) I Apperage Rating Z Type 40 A Type 40 A Voltage type AC Voltage rating 240 V AC / 415 V AC Voltage rating (UL CSA 13) EVECTION Rated size size (ULIMP) 240 V AC / 415 V AC Voltage rating (UL CSA 13) EVECTION Rated size size (ULIMP) 240 V AC / 415 V AC Voltage rating (UL CSA 13) EVECTION Rated size size (ULIMP) 240 V AC / 415 V AC Rated size size size size size size size size | Product Tradename | | | xEffect - FAZ |
| Delivery program Particular Application Branch circuits, not as BCPD Switchage for industrial and advanced commercial applications Switchage for industrial and advanced commercial applications Number of poles Single-pole Number of poles (total) I Release characteristic I Release characteristic Z Amparage Rating VOLA Type AQ Voltage rating AC Voltage rating at DC SUV (four pole) Rated insultand voltage (Ule) - max SUV (four pole) Rated insultan voltage (Ule) - max SUV (four pole) Rated insultan voltage (Ule) - max SUV (four pole) Rated insultan voltage (Ule) - max SUV (four pole) Rated insultan volt | Product Type | | | MCB |
| Application Branch circuits, not as BCPD Switchgear for industrial and advanced commercial applications seffect - Switchgear for industrial and advanced commercial applications setfect - Switchgear for industrial and advanced commercial applications industrial and advanced commercial applications Number of poles (total) Intel - Switchgear for industrial and advanced commercial applications Amperage Rating Intel - Switchgear for industrial and advanced commercial applications Amperage Rating Intel - Switchgear for industrial and advanced commercial applications Voltage rating Chart - Electrical Intel - Switchgear for industrial and advanced commercial applications Volt | Product Sub Type | | | None |
| Number of polesSwitchgear for industrial and advanced commercial applications skiftert - Switchgear for industrial and advanced commercial applic | Delivery program | | | |
| Number of poles (total)IINumber of poles (protected)IINumber of poles (protected)IITripping characteristicZIAmperage RatingIITypeIITochnical Data - ElectricalIIVoltage typeAIVoltage rating at DCIIVoltage rating at DCIIVoltage rating at DCIIVoltage rating (UL CSA 13)IIRated inpulse withstand voltage (Uimp)IIFrequency rating - maxIIPrequency rating - maxIIRated soutching capacity (EC 60987-2)IIQuertional switching capacity (EC 60989) at 400 VIIRated short-circuit breaking capacity (EC 60987-2) at 220 VIIRa | Application | | | Switchgear for industrial and advanced commercial applications |
| Number of poles (protected)Image: pole sector stateImage: pole sector stateTripping characteristicImage: pole sector stateImage: pole sector stateAmperage RatingImage: pole sector stateImage: pole sector stateTypeImage: pole sector stateImage: pole sector stateTypeImage: pole sector stateImage: pole sector stateVoltage typeImage: pole sector stateImage: pole sector stateVoltage rating at DCImage: pole sector stateImage: pole sector stateVoltage rating (UL CS 13)Image: pole sector stateImage: pole sector stateRated inpulse withstand voltage (Ulin)Image: pole sector stateImage: pole sector stateFrequency rating - maxImage: pole sector stateImage: pole sector statePrequency rating - maxImage: pole sector stateImage: pole sector state< | Number of poles | | | Single-pole |
| Tripping characteristicZRelease characteristicZAmperage Rating40 ATypeFAZ Miniature circuit breakerTothical Data - ElectricalAVoltage typeACVoltage type40 V AC / 415 V ACVoltage rating at DC240 V AC / 415 V ACVoltage rating (UL CSA 13)277 V AC; 48 V DCRated operational voltage (Uinp)400 VRated insulation voltage (Uinp)440 VFrequency rating - max60 HzRated switching capacity (IEC/EN 60947-2)10 kAOperational switching capacity (IEC 609492)0 kARated short-circuit breaking capacity (IEC 609492)0 kARated short-circuit breaking capacity (IEC 609492)200 VRated short-circuit breaking capacity (IEC 609492)0 kARated short-circuit breaking capacity (IEC 609492)0 kARated short-circuit breaking capacity (IEC 6094922)0 kARated short-circuit breaking capacity (IEC 6094922)0 kARated short-circuit breaking capacity (IEC 6094922)0 kARated short-circuit breaking capacity (IEC 609472)0 kARated short-circuit breaking capacity (IEC 6094722)0 kARated short-circuit breaking capacity (IEC 6094722) <td< td=""><td>Number of poles (total)</td><td></td><td></td><td>1</td></td<> | Number of poles (total) | | | 1 |
| Release characteristic Z Amperage Rating 40 A Type 40 A Type Amperage Rating Voltage type AC Voltage rating at DC 60 V DC (per pole) Voltage rating (UL CSA 13) 200 V AC / 415 V AC Rated operational voltage (Uip) 300 V Rated insulation voltage (Uip) 440 V Rated insulation voltage (Uip) 440 V Frequency rating - min 50 Hz Frequency rating - min 50 Hz Rated switching capacity (EC/EN 60947-2) 10 kA Querational switching capacity (EC/EN 60989) at 200 V 10 kA Rated short-circuit breaking capacity (EN 60989) at 200 V 64 A Rated short-circuit breaking capacity (EC 60947-2) at 220 V 10 kA Rated short-circuit breaking capacity (EN 60989) at 400 V 64 A Rated short-circuit breaking | Number of poles (protecte | d) | | 1 |
| Amperage Rating 40 A Type Facility Type Facility Technical Data - Electrical Facility Voltage type AC Voltage rating at DC 60 VDC (per pole) Voltage rating (UC SA 13) 60 VDC (per pole) Rated insulation voltage (Ue) - max 707 VAC; 48 V DC Rated insulation voltage (Uiny) 404 Frequency rating - max 60 HZ Rated switching capacity (EDC SM93P) at 200 VC 60 HZ Rated short-circuit breaking capacity (EDC SM93P) at 200 VC 60 HZ Rated short-circuit breaking capacity (EDC SM93P) at 200 VC 60 HZ Rated short-circuit breaking capacity (EDC SM93P) at 200 VC 60 HZ Rated short-circuit breaking capacity (EDC SM93P) at 200 VC 60 HZ Rated short-circuit breaking capacity (EDC SM93P) at 200 VC 60 HZ Rated short-circuit breaking capacity (EDC SM93P) at 200 VC 60 HZ Rated short-circuit breaking capacity (EDC SM93P) at 200 VC 60 HZ Rated short-circuit breaking capacity (EDC SM93P) at 200 VC 60 HZ Rated short-circuit breaking capacity (EDC SM93P) at 200 VC 60 HZ Rated short-circuit breaking capacity (EDC SM93P) at 200 VC 60 HZ | Tripping characteristic | | | Z |
| Type AZ Technical Data - Electrical AC Voltage type AC Voltage rating 40 V AC / 415 V AC Voltage rating at DC 60 V DC (per pole) Voltage rating (UL CSA 13) 270 V AC; 48 V DC Rated operational voltage (Ue) - max 300 V Rated insulation voltage (Uin) 400 V Frequency rating - min 50 Hz Frequency rating - min 50 Hz Rated switching capacity (EE/EN 60947-2) 60 M C Operational switching capacity (EN 60989) at 230 V 60 Hz Rated short-circuit breaking capacity (EC 60987-2) at 230 V 60 Hz Rated short-circuit breaking capacity (IEC 60987-2) at 230 V 60 Hz Rated short-circuit breaking capacity (IEC 60987-2) at 230 V 60 Hz Rated short-circuit breaking capacity (IEC 60987-2) at 230 V 60 Hz Rated short-circuit breaking capacity (IEC 60987-2) at 230 V 60 Hz Rated short-circuit breaking capacity (IEC 60987-2) at 230 V 60 Hz Rated short-circuit breaking capacity (IEC 60987-2) at 230 V 60 Hz Rated short-circuit breaking capacity (IEC 60987-2) at 230 V 60 Hz Rated short-circuit breaking capacity (IEC 60987-2) at 230 V 60 Hz </td <td>Release characteristic</td> <td></td> <td></td> <td>Z</td> | Release characteristic | | | Z |
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| Voltage typeACVoltage rating240 V AC / 415 V ACVoltage rating at DC240 V AC / 415 V ACVoltage rating (UL CSA 13)60 V DC (per pole)Rated operational voltage (Ue) - max270 V AC; 48 V DCRated insulation voltage (Uin)440 VRated insulation voltage (Uinp)60 V DC (per pole)Frequency rating - min60 V DC (per pole)Rated switching capacity (EC/EN 60947-2)60 V DC (per pole)Operational switching capacity (EN 60989) at 230 V60 V DC (per pole)Rated short-circuit breaking capacity (EN 60989) at 230 V60 V DC (per pole)Rated short-circuit breaking capacity (EN 60989) at 230 V60 V DC (per pole)Rated short-circuit breaking capacity (EN 60989) at 230 V60 V DC (per pole)Rated short-circuit breaking capacity (EN 60989) at 230 V60 V DC (per pole)Rated short-circuit breaking capacity (EN 60989) at 230 V60 V DC (per pole)Rated short-circuit breaking capacity (EN 60989) at 230 V60 V DC (per pole)Rated short-circuit breaking capacity (EN 60989) at 230 V60 V DC (per pole)Rated short-circuit breaking capacity (EN 60989) at 230 V60 K ARated short-circuit breaking capacity (EN 60989) at 230 V60 K ARated short-circuit breaking capacity (EN 60989) at 230 V60 K ARated short-circuit breaking capacity (EN 60989) at 230 V60 K ARated short-circuit breaking capacity (EN 60989) at 400 V60 K ARated short-circuit breaking capacity (EN 60987-2) at 230 V60 K ARated short-circuit breaking capacity (EN 60989 At 00 V60 K A< | Туре | | | |
| Voltage rating 240 V AC / 415 V AC Voltage rating at DC 60 V DC (per pole) Voltage rating (UL CSA 13) 277 V AC; 48 V DC Rated operational voltage (Ue) - max 230 V Rated insulation voltage (Uinp) 440 V Frequency rating - min 50 Hz Frequency rating - max 60 Hz Prequency rating - max 60 Hz Operational switching capacity (IEC/EN 60947-2) 10 kA Rated short-circuit breaking capacity (IEC 60947-2) at 230 V 60 Hz Rated short-circuit breaking capacity (IEC 60947-2) at 230 V 60 Hz Rated short-circuit breaking capacity (IEC 60947-2) at 230 V 60 Hz Rated short-circuit breaking capacity (IEC 60947-2) at 230 V 60 Hz Rated short-circuit breaking capacity (IEC 60947-2) at 230 V 60 Hz Rated short-circuit breaking capacity (IEC 60947-2) at 230 V 60 Hz | Technical Data - Electri | ical | | |
| Voltage rating at DC60 V DC (per pole)Voltage rating (UL CSA 13)277 V AC; 48 V DCRated operational voltage (Ue) - max230 VRated insulation voltage (Ui)440 VRated inpulse withstand voltage (Uimp)460 V DC (per pole)Frequency rating - min50 HzFrequency rating - max60 HzRated switching capacity (IEC/EN 60947-2)60 HzOperational switching capacity (EN 60989) at 230 V60 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V60 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V60 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V60 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V60 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V60 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V60 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V60 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V60 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V60 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V60 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V60 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V60 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V60 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V60 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V60 HzRated short-circuit breaking capacity (| Voltage type | | | AC |
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| Rated operational voltage (Ue) - max230 VRated insulation voltage (Ui)440 VRated inpulse withstand voltage (Uimp)440 VFrequency rating - min50 HzFrequency rating - max60 HzRated switching capacity (IEC/EN 60947-2)10 kAOperational switching capacity (EN 60989) at 230 V6 HzRated short-circuit breaking capacity (IEC 60987) at 400 V6 HzRated short-circuit breaking capacity (IEC 60987) at 400 V6 HzRated short-circuit breaking capacity (IEC 60987) at 430 V6 HzRated short-circuit breaking capacity (IEC 60987) at 430 V6 HzRated short-circuit breaking capacity (IEC 60987) at 430 V6 HzRated short-circuit breaking capacity (IEC 60987) at 430 V6 HzRated short-circuit breaking capacity (IEC 60987) at 430 V6 HzRated short-circuit breaking capacity (IEC 60987) at 430 V6 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V6 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V6 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V6 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V6 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V6 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V6 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V6 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V6 HzRated short-circuit breaking capacity (IEC 60947-2) at 230 V6 HzRated short-circuit breaking capacity | Voltage rating at DC | | | 60 V DC (per pole) |
| Rated insulation voltage (Ui)440 VRated inpulse withstand voltage (Uimp)4 kVFrequency rating - min50 HzFrequency rating - max60 HzRated switching capacity (IEC/EN 60947-2)10 kAOperational switching capacity (EN 60989) at 230 V0 kARated short-circuit breaking capacity (IEC 60947-2) at 230 V0 kARated short-circuit breaking capacity (IEC 60947-2) at 230 V0 kA | Voltage rating (UL CSA 13) | | | 277 V AC; 48 V DC |
| Rated impulse withstand voltage (Uimp)4 kVFrequency rating - min50 HzFrequency rating - max60 HzRated switching capacity (IEC/EN 60947-2)10 kAOperational switching capacity (EN 60989) at 230 V0 kARated short-circuit breaking capacity (IEC 60947-2) at 230 V0 kARated short-circuit breaking capacity (IEC 60947-2) at 230 V0 kA | Rated operational voltage | (Ue) - max | | 230 V |
| Frequency rating - min50 HzFrequency rating - max60 HzRated switching capacity (IEC/EN 60947-2)10 kAOperational switching capacity7.5 kARated short-circuit breaking capacity (EN 60898) at 230 V0 kARated short-circuit breaking capacity (EN 60898) at 400 V0 kARated short-circuit breaking capacity (IEC 60947-2) at 230 V0 kA | Rated insulation voltage (U | Ji) | | 440 V |
| Frequency rating - max60 HzRated switching capacity (IEC/EN 60947-2)10 kAOperational switching capacity (EN 60988) at 230 V7.5 kARated short-circuit breaking capacity (EN 60898) at 230 V0 kARated short-circuit breaking capacity (IEC 60947-2) at 230 V0 kARated short-circuit breaking capacity (IEC 60947-2) at 230 V0 kA | Rated impulse withstand v | roltage (Uimp) | | 4 kV |
| Rated switching capacity (IEC/EN 60947-2)10 kAOperational switching capacity10 kARated short-circuit breaking capacity (EN 60898) at 230 V0 kARated short-circuit breaking capacity (EN 60898) at 400 V0 kARated short-circuit breaking capacity (IEC 60947-2) at 230 V0 kA | Frequency rating - min | | | 50 Hz |
| Operational switching capacityCompared by a capacity7.5 kARated short-circuit breaking capacity (EN 60898) at 230 V0 kARated short-circuit breaking capacity (EN 60898) at 400 V0 kARated short-circuit breaking capacity (IEC 60947-2) at 230 V0 kA | Frequency rating - max | | | 60 Hz |
| Rated short-circuit breaking capacity (EN 60898) at 230 V0 kARated short-circuit breaking capacity (EN 60898) at 400 V0 kARated short-circuit breaking capacity (IEC 60947-2) at 230 V0 kA | Rated switching capacity (| (IEC/EN 60947-2) | | 10 kA |
| Rated short-circuit breaking capacity (EN 60898) at 400 V 0 kA Rated short-circuit breaking capacity (IEC 60947-2) at 230 V 10 kA | Operational switching cap | acity | | 7.5 kA |
| Rated short-circuit breaking capacity (IEC 60947-2) at 230 V | Rated short-circuit breakin | ng capacity (EN 60898) at 230 V | | 0 kA |
| Rated short-circuit breaking capacity (IEC 60947-2) at 230 V | Rated short-circuit breakin | ng capacity (EN 60898) at 400 V | | 0 kA |
| | | | | 10 kA |
| | | | | |

Admissible back-up fuse - max

125 A gL/gG

| Calasti itti alasa | 2 |
|---|---|
| Selectivity class | 3 |
| Lifespan, electrical | 10000 operations |
| Overvoltage category | |
| Pollution degree | 2 Association |
| Direction of incoming supply | As required |
| Technical Data - Mechanical | |
| Frame | 45 mm |
| Enclosure width | 80 mm |
| Width in number of modular spacings | 1 |
| Built-in depth | 70.5 mm |
| Mounting width per pole | 17.5 mm |
| Mounting width | 17.5 mm |
| Mounting Method | Top-hat rail IEC/EN 60715 |
| Mounting position | As required |
| Degree of protection | UL/CSA Type: - IP20 (IEC) IP20 IP40 (when fitted) |
| Terminals (top and bottom) | Twin-purpose terminals |
| Connectable conductor cross section (solid-core) - min | 1 mm ² |
| Connectable conductor cross section (solid-core) - max | 25 mm ² |
| Connectable conductor cross section (multi-wired) - min | 1 mm ² |
| Connectable conductor cross section (multi-wired) - max | 25 mm ² |
| Terminal capacity of screw terminals for main cable | 10 mm² (2x) |
| Terminal capacity (control cable) | 25 mm² (1x) |
| Terminal protection | Finger and hand touch safe, DGUV VS3, EN 50274 |
| Busbar material thickness | 0.8 mm - 2 mm |
| Design verification as per IEC/EN 61439 - technical data | |
| Rated operational current for specified heat dissipation (In) | 40 A |
| Heat dissipation per pole, current-dependent | 0 W |
| Equipment heat dissipation, current-dependent | 4.5 W |
| Static heat dissipation, non-current-dependent | 0 W |
| Heat dissipation capacity | 0 W |
| Ambient operating temperature - min | -25 °C |
| Ambient operating temperature - max | 75 °C |
| Design verification as per IEC/EN 61439 | |
| 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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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. |
| 10.9.2 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. |
| 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise | Is the panel builder's responsibility. The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |

| 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. |
| Additional information | |
| Current limiting class | 3 |
| Features | Additional equipment possible |
| Special features | Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity |
| Used with | FAZ Miniature circuit breaker |

Technical data ETIM 9.0

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042) Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss13-27-14-19-01 [AAB905019]) Built-in depth mm 70.5 Release characteristic Ζ Number of poles (total) 1 Number of protected poles 1 Rated current 40 А v Rated voltage 230 440 Rated insulation voltage Ui v Rated impulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V kΑ 0 Voltage type AC Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V kΑ 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 10 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 10 Frequency Hz 50 - 60 w Power loss 4.5 Current limiting class 3 Flush-mounted installation No Concurrently switching neutral conductor No Over voltage category 3 Pollution degree 2 Additional equipment possible Yes Width in number of modular spacings 1 Degree of protection (IP) IP20 Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25 Explosion-proof No