

3004977

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 41 A, number of connections: 2, connection method: Screw connection, Rated cross section: 6 mm 2 , cross section: 0.2 mm 2 - 10 mm 2 , mounting type: NS 35/7,5, NS 35/15, color: blue

Your advantages

- All universal terminal blocks in the UK... series can also be used in the Ex e area according to IEC/EN 60079 as standard
- · The corresponding EC-type examination numbers for Ex approval can be found in the technical connection data

Commercial data

| Item number | 3004977 |
|--------------------------------------|---------------------|
| Packing unit | 50 pc |
| Sales key | BE12 |
| Product key | BE1211 |
| Catalog page | Page 460 (C-1-2019) |
| GTIN | 4017918090968 |
| Weight per piece (including packing) | 13.25 g |
| Weight per piece (excluding packing) | 12.545 g |
| Customs tariff number | 85369010 |
| Country of origin | CN |



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Technical data

Product properties

| Product type | Feed-through terminal block |
|----------------------------|-----------------------------|
| Number of connections | 2 |
| Number of rows | 1 |
| Potentials | 1 |
| Insulation characteristics | |
| Overvoltage category | III |
| Degree of pollution | 3 |

Electrical properties

| Rated surge voltage | 8 kV |
|---|--------|
| Maximum power dissipation for nominal condition | 1.31 W |

Connection data

| Number of connections per level | 2 |
|---------------------------------|-------|
| Nominal cross section | 6 mm² |

Level 1 above 1 below 1

| Level 1 above 1 below 1 | |
|---|--|
| Screw thread | M4 |
| Tightening torque | 1.5 1.8 Nm |
| Stripping length | 10 mm |
| Internal cylindrical gage | A5 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross section rigid | 0.2 mm² 10 mm² |
| Cross section AWG | 24 8 (converted acc. to IEC) |
| Conductor cross section flexible | 0.2 mm² 6 mm² |
| Conductor cross section, flexible [AWG] | 24 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm² 6 mm² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.25 mm² 6 mm² |
| Cross-section with insertion bridge, rigid | 4 mm² |
| Cross-section with insertion bridge, flexible | 4 mm² |
| 2 conductors with same cross section, solid | 0.2 mm² 2.5 mm² |
| 2 conductors with same cross section, flexible | 0.2 mm² 2.5 mm² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.25 mm² 1.5 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² 4 mm² |
| Nominal current | 41 A |
| Maximum load current | 57 A (with 10 mm² conductor cross section) |
| Nominal voltage | 800 V |
| Nominal cross section | 6 mm² |
| | |



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Ex data

| | | / A | | | - \ |
|-------|------|-----|-------|---|-----|
| Rated | data | (AI | ⊢ X / | ᄩ | -x) |

| Identification | ⓑ II 2 GD Ex eb IIC Gb |
|-----------------------------|---------------------------------------|
| Operating temperature range | -60 °C 110 °C |
| Ex-certified accessories | 3003020 D-UK 4/10 |
| | 3006027 D-UK 16 |
| | 3003224 ATP-UK |
| | 1205066 SZS 1,0X4,0 VDE |
| | 1201442 E/UK |
| List of bridges | Fixed bridge / FB 2- 8-EX / 3029224 |
| | Fixed bridge / FB 10- 8-EX / 3003185 |
| Bridge data | 37.5 A / 6 mm² |
| List of bridges | Fixed bridge / FBI 10- 8-EX / 0711700 |
| Bridge data | 39.5 A / 6 mm² |
| Ex temperature increase | 40 K (47 A / 6 mm²) |
| Rated voltage | 690 V |
| for bridging with bridge | 690 V |
| Rated insulation voltage | 630 V |
| output | (Permanent) |

Ex level General

| Rated current | 41 A |
|----------------------|---------|
| Maximum load current | 51 A |
| Contact resistance | 0.16 mΩ |

Ex connection data General

| Torque range | 1.5 Nm 1.8 Nm |
|---|-----------------|
| Nominal cross section | 6 mm² |
| Rated cross section AWG | 10 |
| Connection capacity rigid | 0.2 mm² 10 mm² |
| Connection capacity AWG | 24 8 |
| Connection capacity flexible | 0.2 mm² 6 mm² |
| Connection capacity AWG | 24 10 |
| 2 conductors with same cross section, solid | 0.2 mm² 1.5 mm² |
| 2 conductors with the same cross-section AWG rigid | 24 16 |
| 2 conductors with same cross section, stranded | 0.2 mm² 1.5 mm² |
| 2 conductors with the same cross-section AWG flexible | 24 16 |

Dimensions

| Width | 8.2 mm |
|--------------------|---------|
| End cover width | 1.8 mm |
| Height | 42.5 mm |
| Depth on NS 32 | 52 mm |
| Depth on NS 35/7,5 | 47 mm |



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| Aterial specifications Color blue Flammability rating according to UL 94 V0 Insulating material group I Insulating material group I Insulating material application in cold -60 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) 130 °C Fire protection for rail vehicles (DIN EN 45545-2) R22 HL 1 - HL 3 Fire protection for rail vehicles (DIN EN 45545-2) R24 HL 1 - HL 3 Fire protection for rail vehicles (DIN EN 45545-2) R24 HL 1 - HL 3 Fire protection for rail vehicles (DIN EN 45545-2) R24 HL 1 - HL 3 Fire protection for rail vehicles (DIN EN 45545-2) R26 HL 1 - HL 3 Calorimetric heat release NFPA 130 (ASTM E 1354) 28 MJ/kg Surface flammability NFPA 130 (ASTM E 162) passed Specific optical density of smoke NFPA 130 (ASTM E 662) passed Smoke gas toxicity NFPA 130 (SMP 800C) passed | |
|---|-------------|
| Color Flammability rating according to UL 94 V0 Insulating material group Insulating material group Insulating material Static insulating material application in cold Femperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) Fire protection for rail vehicles (DIN EN 45545-2) R22 Fire protection for rail vehicles (DIN EN 45545-2) R23 Fire protection for rail vehicles (DIN EN 45545-2) R24 Fire protection for rail vehicles (DIN EN 45545-2) R24 Fire protection for rail vehicles (DIN EN 45545-2) R26 Fire protection for rail vehicles | |
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| Smoke gas toxicity NFPA 130 (SMP 800C) passed | |
| | |
| Mechanical data Open side panel Yes | |
| vironmental and real-life conditions | |
| Ambient conditions | |
| Ambient temperature (operation) -60 °C 110 °C (Operating temperature range incl for max. short-term operating temperature, see RTI | |
| Ambient temperature (storage/transport) -25 °C 60 °C (for a short time, no longer than 24 +70°C) | h, -60°C to |
| Ambient temperature (assembly) -5 °C 70 °C | |
| | |
| Ambient temperature (actuation) -5 °C 70 °C | |
| Ambient temperature (actuation) -5 °C 70 °C Permissible humidity (operation) 20 % 90 % | |
| | |
| Permissible humidity (operation) 20 % 90 % | |
| Permissible humidity (operation) 20 % 90 % Permissible humidity (storage/transport) 30 % 70 % | |
| Permissible humidity (operation) Permissible humidity (storage/transport) andards and regulations Connection in acc. with standard IEC 60947-7-1 | |
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