# SSK 110 KER-EX - Feed-through terminal block

0502058

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Feed-through terminal block, connection method: screw connection, cross section: 0.5 mm$^2$ - 10 mm$^2$, 20 - 8 AWG, width: 8.4 mm, color: white, mounting type: NS 32, insulation material: ceramic

## Your advantages

- Mounting on NS 32 G DIN rail
- Compact design
- Easy potential distribution thanks to chain bridging

## Commercial data

| | |
|---|---|
| Item number | 0502058 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE1211 |
| Product key | BE1211 |
| GTIN | 4017918002510 |
| Weight per piece (including packing) | 29.25 g |
| Weight per piece (excluding packing) | 26.08 g |
| Customs tariff number | 85369010 |
| Country of origin | DE |

# Technical data

## Product properties

| | |
|---|---|
| Product type | High temperature terminal block |
| Product family | SSK |
| 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

| | |
|---|---|
| Connection method | Screw connection |
| Screw thread | M4 |
| Tightening torque | 1.5 ... 1.8 Nm |
| Stripping length | 10 mm |
| Internal cylindrical gage | A4 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 0.5 mm² ... 10 mm² |
| Cross section AWG | 20 ... 8 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.5 mm² ... 6 mm² |
| Conductor cross-section, flexible [AWG] | 20 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm² ... 6 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm² ... 4 mm² |
| 2 conductors with same cross section, rigid | 0.5 mm² ... 2.5 mm² |
| 2 conductors with same cross section, flexible | 0.5 mm² ... 2.5 mm² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.5 mm² ... 2.5 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 2.5 mm² |
| Nominal cross section | 6 mm² |
| Nominal current | 41 A |
| Maximum load current | 57 A (with 10 mm² conductor cross-section) |
| Nominal voltage | 800 V |

## Ex data

Rated data (ATEX/IECEx)

| | |
|---|---|
| Identification | II 2 GD Ex eb IIC Gb |
| Operating temperature range | -60 °C ... 180 °C |
| Ex-certified accessories | 0202060 D-SSK 110 KER |
| | 1201044 E/1 |
| List of bridges | Chain bridge / KB- 8 / 0202206 |
| Bridge data | 49 A (10 mm²) |
| Ex temperature increase | 40 K (40.3 A / 6 mm²) |
| for bridging with bridge | 440 V |
| Rated insulation voltage | 400 V |
| output | (Permanent) |

Ex level General

| | |
|---|---|
| Rated voltage | 440 V |
| Rated current | 36.5 A |
| Maximum load current | 49 A |
| Contact resistance | 0.74 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 | 0.5 mm² ... 10 mm² |
| Connection capacity AWG | 20 ... 8 |
| Connection capacity flexible | 0.5 mm² ... 6 mm² |
| Connection capacity AWG | 20 ... 10 |

## Dimensions

| | |
|---|---|
| Width | 8 mm |
| End cover width | 4 mm |
| Height | 38.4 mm |
| Depth | 47.3 mm |
| Depth on NS 32 | 50.2 mm |

## Material specifications

| | |
|---|---|
| Color | ivory (RAL 1014) |
| Material | Ceramics |
| Insulating material group | I |
| Relative insulation material temperature index (Elec., UL 746 B) | 1000 °C |

## Electrical tests

Surge voltage test

| | |
|---|---|
| Test voltage setpoint | 9.8 kV |
| Result | Test passed |

Temperature-rise test

| | |
|---|---|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |
| Short-time withstand current 6 mm² | 0.72 kA |
| Short-time withstand current 10 mm² | 1.2 kA |
| Result | Test passed |

Power-frequency withstand voltage

| | |
|---|---|
| Test voltage setpoint | 2 kV |
| Result | Test passed |

## Mechanical properties

Mechanical data

| | |
|---|---|
| Open side panel | Yes |

## Mechanical tests

Mechanical strength

| | |
|---|---|
| Result | Test passed |

Attachment on the carrier

| | |
|---|---|
| DIN rail/fixing support | NS 32 |
| Test force setpoint | 5 N |
| Result | Test passed |

Test for conductor damage and slackening

| | |
|---|---|
| Rotation speed | 10 rpm |
| Revolutions | 135 |
| Conductor cross-section/weight | 0.5 mm² / 0.3 kg |
| | 6 mm² / 1.4 kg |
| | 10 mm² / 2 kg |
| Result | Test passed |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -60 °C ... 180 °C |
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Ambient temperature (assembly) | -5 °C ... 70 °C |
| Ambient temperature (actuation) | -5 °C ... 70 °C |
| Permissible humidity (operation) | 20 % ... 90 % |
| Permissible humidity (storage/transport) | 30 % ... 70 % |

## Standards and regulations

| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-1 |

## Mounting

| | |
|---|---|
| Mounting type | NS 32 |

## Drawings

Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/0502058

**CSA**
Approval ID: 13631

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| not as Ex approval | 600 V | 55 A | 26 - 8 | - |

**ATEX**
Approval ID: KIWA17ATEX0022U

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 440 V | 49 A | - | 0.5 - 10 |
| Only flexible conductors | 440 V | 36.5 A | - | 0.5 - 6 |

**EAC Ex**
Approval ID: KZ 7500525010101950

**IECEx**
Approval ID: IECExKIWA17.0009U

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 440 V | 49 A | - | 0.5 - 10 |
| Only flexible conductors | 440 V | 36.5 A | - | 0.5 - 6 |

**CCC**
Approval ID: 2020322313000628

**DNV GL-EX**
Approval ID: TAE00003K6

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| EEx e II part certificate | 440 V | 32 A | - | - 2.5 |

**ATEX**
Approval ID: KIWA17ATEX0022U

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 440 V | 64.5 A | - | - |
| Only flexible conductors | 440 V | 55 A | - | - |

**UKCA-EX**
Approval ID: CSAE 22UKEX1188U

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27250101 |
| ECLASS-15.0 | 27250101 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000897 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |


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