# SSK 116 KER-EX - Feed-through terminal block

0503057

https://www.phoenixcontact.com/gb/products/0503057

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

Feed-through terminal block, connection method: screw connection, cross section: 0.5 $mm^2$ - 16 $mm^2$, 20 - 6 AWG, width: 10.4 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 | 0503057 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE1211 |
| Product key | BE1211 |
| GTIN | 4017918002541 |
| Weight per piece (including packing) | 36.68 g |
| Weight per piece (excluding packing) | 34.78 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 | 1.82 W |

## Connection data

| | |
|---|---|
| Number of connections per level | 2 |
| Nominal cross section | 10 mm² |

Level 1 above 1 below 1

| | |
|---|---|
| Connection method | Screw connection |
| Screw thread | M4 |
| Tightening torque | 1.5 ... 1.8 Nm |
| Stripping length | 11 mm |
| Internal cylindrical gage | B6 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 0.5 mm² ... 16 mm² |
| Cross section AWG | 20 ... 6 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.5 mm² ... 10 mm² |
| Conductor cross-section, flexible [AWG] | 20 ... 8 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm² ... 10 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm² ... 6 mm² |
| 2 conductors with same cross section, rigid | 0.5 mm² ... 4 mm² |
| 2 conductors with same cross section, flexible | 0.5 mm² ... 4 mm² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.5 mm² ... 4 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 6 mm² |
| Nominal cross section | 10 mm² |
| Nominal current | 57 A |
| Maximum load current | 76 A (with 16 mm² conductor cross-section) |
| Nominal voltage | 630 V (up to 800 V with a conductor cross-section of 16 mm²) |

## Ex data

Rated data (ATEX/IECEx)

| | |
|---|---|
| Identification | Ⓔx II 2 GD Ex eb IIC Gb |
| Operating temperature range | -60 °C ... 180 °C |
| Ex-certified accessories | 0203069 D-SSK 116 KER |
| | 1201044 E/1 |
| List of bridges | Chain bridge / KB- 10 / 0203205 |
| Bridge data | 55 A (10 mm²) |
| Ex temperature increase | 40 K (60.9 A / 10 mm²) |
| for bridging with bridge | 440 V |
| Rated insulation voltage | 400 V |
| output | (Permanent) |

Ex level General

| | |
|---|---|
| Rated voltage | 440 V |
| Rated current | 55 A |
| Maximum load current | 64.5 A |
| Contact resistance | 0.23 mΩ |

Ex connection data General

| | |
|---|---|
| Torque range | 1.5 Nm ... 1.8 Nm |
| Nominal cross section | 10 mm² |
| Rated cross section AWG | 8 |
| Connection capacity rigid | 0.5 mm² ... 16 mm² |
| Connection capacity AWG | 20 ... 6 |
| Connection capacity flexible | 0.5 mm² ... 10 mm² |
| Connection capacity AWG | 20 ... 8 |

## Dimensions

| | |
|---|---|
| Width | 10.4 mm |
| End cover width | 4 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 10 mm² | 1.2 kA |
| Short-time withstand current 16 mm² | 1.92 kA |
| Result | Test passed |

Power-frequency withstand voltage

| | |
|---|---|
| Test voltage setpoint | 1.89 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 |
| | 10 mm² / 2 kg |
| | 16 mm² / 2.9 kg |
| Result | Test passed |

## Environmental and real-life conditions

Needle-flame test

| | |
|---|---|
| Time of exposure | 30 s |
| Result | Test passed |

Oscillation/broadband noise

| | |
|---|---|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Spectrum | Long life test category 1, class B, body mounted |
| Frequency | $f_1$ = 5 Hz to $f_2$ = 150 Hz |
| ASD level | 1.857 (m/s²)²/Hz |
| Acceleration | 0.8g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

| | |
|---|---|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Pulse shape | Half-sine |
| Acceleration | 5g |
| Shock duration | 30 ms |
| Number of shocks per direction | 3 |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |
| Result | Test passed |

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/0503057

**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 | 80 A | 24 - 6 | - |

**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 | - | 0.5 - 16 |
| Only flexible conductors | 440 V | 55 A | - | 0.5 - 10 |

**EAC Ex**
Approval ID: KZ 7500525010101950

**GL**
Approval ID: 98876-96 HH

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| EEx e II part certificate | 440 V | 57 A | - | - 10 |

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

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 440 V | 64.5 A | - | 0.5 - 16 |
| Only flexible conductors | 440 V | 55 A | - | 0.5 - 10 |

**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 |

**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% |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 0.722 kg CO2e |

Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk