

SSK 116 KER-EX - Feed-through terminal block



0503057

<https://www.phoenixcontact.com/us/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 mm² - 16 mm², 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 | BE12 |
| 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 |

SSK 116 KER-EX - Feed-through terminal block



0503057

<https://www.phoenixcontact.com/us/products/0503057>

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 mm ² |

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 mm ² ... 16 mm ² |
| Cross section AWG | 20 ... 6 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.5 mm ² ... 10 mm ² |
| Conductor cross-section, flexible [AWG] | 20 ... 8 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm ² ... 10 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm ² ... 6 mm ² |
| 2 conductors with same cross section, rigid | 0.5 mm ² ... 4 mm ² |
| 2 conductors with same cross section, flexible | 0.5 mm ² ... 4 mm ² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.5 mm ² ... 4 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 6 mm ² |
| Nominal cross section | 10 mm ² |
| Nominal current | 57 A |
| Maximum load current | 76 A (with 16 mm ² conductor cross-section) |
| Nominal voltage | 630 V (up to 800 V with a conductor cross-section of 16 mm ²) |

SSK 116 KER-EX - Feed-through terminal block



0503057

<https://www.phoenixcontact.com/us/products/0503057>

Ex data

Rated data (ATEX/IECEX)

| | |
|---|--|
| Identification | ⊕ 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 mm ²) |
| Ex temperature increase for bridging with bridge | 40 K (60.9 A / 10 mm ²) 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 mm ² |
| Rated cross section AWG | 8 |
| Connection capacity rigid | 0.5 mm ² ... 16 mm ² |
| Connection capacity AWG | 20 ... 6 |
| Connection capacity flexible | 0.5 mm ² ... 10 mm ² |
| 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

SSK 116 KER-EX - Feed-through terminal block



0503057

<https://www.phoenixcontact.com/us/products/0503057>

| | |
|---|-------------------------------------|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |
| Short-time withstand current 10 mm ² | 1.2 kA |
| Short-time withstand current 16 mm ² | 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 mm ² / 0.3 kg |
| | 10 mm ² / 2 kg |
| | 16 mm ² / 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/s ²) ² /Hz |
| Acceleration | 0.8g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

SSK 116 KER-EX - Feed-through terminal block



0503057

<https://www.phoenixcontact.com/us/products/0503057>

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 |
|---------------|-------|

SSK 116 KER-EX - Feed-through terminal block



0503057

<https://www.phoenixcontact.com/us/products/0503057>

Drawings

Circuit diagram



SSK 116 KER-EX - Feed-through terminal block





0503057

<https://www.phoenixcontact.com/us/products/0503057>


Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/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 | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

SSK 116 KER-EX - Feed-through terminal block



0503057

<https://www.phoenixcontact.com/us/products/0503057>

| | 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

SSK 116 KER-EX - Feed-through terminal block



0503057

<https://www.phoenixcontact.com/us/products/0503057>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

SSK 116 KER-EX - Feed-through terminal block



0503057

<https://www.phoenixcontact.com/us/products/0503057>

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 USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com