

0501059

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Feed-through terminal block, connection method: screw connection, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, 24 - 12 AWG, width: 6.2 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                          | 0501059             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Sales key                            | 0100*               |
| Product key                          | BE1211              |
| Catalog page                         | Page 541 (C-1-2019) |
| GTIN                                 | 4017918002480       |
| Weight per piece (including packing) | 20.151 g            |
| Weight per piece (excluding packing) | 18.775 g            |
| Customs tariff number                | 85369010            |
| Country of origin                    | DE                  |

# SSK 0525 KER-EX - Feed-through terminal block



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## Technical data

### Product properties

|                       |                                 |
|-----------------------|---------------------------------|
| Product type          | High temperature 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 | 0.77 W |

### Connection data

|                                 |                     |
|---------------------------------|---------------------|
| Number of connections per level | 2                   |
| Nominal cross section           | 2.5 mm <sup>2</sup> |

### Level 1 above 1 below 1

|                                                                                           |                                                       |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Screw thread                                                                              | M3                                                    |
| Tightening torque                                                                         | 0.5 ... 0.6 Nm                                        |
| Stripping length                                                                          | 9 mm                                                  |
| Internal cylindrical gage                                                                 | A3                                                    |
| Connection in acc. with standard                                                          | IEC 60947-7-1                                         |
| Conductor cross section rigid                                                             | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>             |
| Cross section AWG                                                                         | 24 ... 12 (converted acc. to IEC)                     |
| Conductor cross section flexible                                                          | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>             |
| Conductor cross section, flexible [AWG]                                                   | 24 ... 12 (converted acc. to IEC)                     |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>          |
| Flexible conductor cross section (ferrule with plastic sleeve)                            | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>          |
| 2 conductors with same cross section, solid                                               | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>           |
| 2 conductors with same cross section, flexible                                            | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>           |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>          |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>           |
| Nominal current                                                                           | 24 A                                                  |
| Maximum load current                                                                      | 32 A (with 4 mm <sup>2</sup> conductor cross section) |
| Nominal voltage                                                                           | 690 V                                                 |
| Nominal cross section                                                                     | 2.5 mm <sup>2</sup>                                   |

### Ex data

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## Rated data (ATEX/IECEX)

|                             |                                       |
|-----------------------------|---------------------------------------|
| Identification              | Ex II 2 GD Ex eb IIC Gb               |
| Operating temperature range | -60 °C ... 180 °C                     |
| Ex-certified accessories    | 0201061 D-SSK 0525 KER<br>1201044 E/1 |
| List of bridges             | Chain bridge / KB- 6 / 0201472        |
| Bridge data                 | 28 A / 4 mm²                          |
| Ex temperature increase     | 40 K (31.3 A / 4 mm²)                 |
| Rated voltage               | 440 V                                 |
| for bridging with bridge    | 440 V                                 |
| Rated insulation voltage    | 400 V                                 |
| output                      | (Permanent)                           |

## Ex level General

|                      |         |
|----------------------|---------|
| Rated current        | 28 A    |
| Maximum load current | 28 A    |
| Contact resistance   | 0.94 mΩ |

## Ex connection data General

|                              |                    |
|------------------------------|--------------------|
| Torque range                 | 0.5 Nm ... 0.6 Nm  |
| Nominal cross section        | 4 mm²              |
| Rated cross section AWG      | 12                 |
| Connection capacity rigid    | 0.2 mm² ... 4 mm²  |
| Connection capacity AWG      | 24 ... 12          |
| Connection capacity flexible | 0.25 mm² ... 4 mm² |
| Connection capacity AWG      | 22 ... 12          |

## Dimensions

|                 |        |
|-----------------|--------|
| Width           | 6.2 mm |
| End cover width | 3.5 mm |
| Height          | 38 mm  |
| Depth on NS 32  | 48 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

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|                                                |                                     |
|------------------------------------------------|-------------------------------------|
| Requirement temperature-rise test              | Increase in temperature $\leq 45$ K |
| Result                                         | Test passed                         |
| Short-time withstand current 4 mm <sup>2</sup> | 0.48 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     | 1 N         |
| Result                  | Test passed |

### Test for conductor damage and slackening

|                                |                                                            |
|--------------------------------|------------------------------------------------------------|
| Rotation speed                 | 10 rpm                                                     |
| Revolutions                    | 135                                                        |
| Conductor cross section/weight | 0.2 mm <sup>2</sup> / 0.2 kg<br>4 mm <sup>2</sup> / 0.9 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 |
|---------------|-------|

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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/0501059>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                    | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| not as Ex approval                                                                                                 | 600 V                 | 20 A                  | 22 - 12           | -                           |

|  <b>ATEX</b><br>Approval ID: KIWA17ATEX0022U |                       |                       |                   |                             |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                               | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                               | 440 V                 | 28 A                  | -                 | 0.2 - 4                     |
| Only flexible conductors                                                                                                      | 440 V                 | 28 A                  | -                 | 0.25 - 4                    |

|  <b>EAC Ex</b><br>Approval ID: KZ 7500525010101950 |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  <b>IECEx</b><br>Approval ID: IECExKIWA17.0009U |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                    | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                    | 440 V                 | 28 A                  | -                 | 0.2 - 4                     |
| Only flexible conductors                                                                                                           | 440 V                 | 28 A                  | -                 | 0.2 - 4                     |

|  <b>CCC</b><br>Approval ID: 2020322313000628 |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  <b>DNV GL-EX</b><br>Approval ID: TAE00003K6 |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                 | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| EEx e II part certificate                                                                                                       | 440 V                 | 32 A                  | -                 | - 2.5                       |

|  <b>ATEX</b><br>Approval ID: KIWA17ATEX0022U |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                 | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                 | 440 V                 | 64.5 A                | -                 | -                           |
| Only flexible conductors                                                                                                        | 440 V                 | 55 A                  | -                 | -                           |

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**UKCA-EX**

Approval ID: CSAE 22UKEX1188U

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141120 |
| ECLASS-13.0 | 27250101 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000897 |
|----------|----------|

### UNSPSC

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



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## 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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