

0505055  
<https://www.phoenixcontact.com/us/products/0505055>

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Feed-through terminal block, connection method: screw connection, cross section: 1 mm<sup>2</sup> - 35 mm<sup>2</sup>, 18 - 2 AWG, 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                          | 0505055             |
| Packing unit                         | 10 pc               |
| Minimum order quantity               | 10 pc               |
| Sales key                            | BE12                |
| Product key                          | BE1211              |
| Catalog page                         | Page 543 (C-1-2019) |
| GTIN                                 | 4017918002596       |
| Weight per piece (including packing) | 98.62 g             |
| Weight per piece (excluding packing) | 90.88 g             |
| Customs tariff number                | 85369010            |
| Country of origin                    | DE                  |

# SSK 135 KER-EX - Feed-through terminal block



0505055

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## 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 | 4.06 W |

### Connection data

|                                 |                    |
|---------------------------------|--------------------|
| Number of connections per level | 2                  |
| Nominal cross section           | 35 mm <sup>2</sup> |

### Level 1 above 1 below 1

|                                                                                           |                                                         |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Screw thread                                                                              | M6                                                      |
| Tightening torque                                                                         | 3.2 ... 3.7 Nm                                          |
| Stripping length                                                                          | 16 mm                                                   |
| Internal cylindrical gage                                                                 | B7                                                      |
| Connection in acc. with standard                                                          | IEC 60947-7-1                                           |
| Conductor cross section rigid                                                             | 1 mm <sup>2</sup> ... 35 mm <sup>2</sup>                |
| Cross section AWG                                                                         | 18 ... 2 (converted acc. to IEC)                        |
| Conductor cross section flexible                                                          | 1 mm <sup>2</sup> ... 25 mm <sup>2</sup>                |
| Conductor cross section, flexible [AWG]                                                   | 18 ... 4 (converted acc. to IEC)                        |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.75 mm <sup>2</sup> ... 25 mm <sup>2</sup>             |
| Flexible conductor cross section (ferrule with plastic sleeve)                            | 0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup>             |
| 2 conductors with same cross section, solid                                               | 0.75 mm <sup>2</sup> ... 10 mm <sup>2</sup>             |
| 2 conductors with same cross section, flexible                                            | 0.75 mm <sup>2</sup> ... 10 mm <sup>2</sup>             |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.75 mm <sup>2</sup> ... 10 mm <sup>2</sup>             |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.75 mm <sup>2</sup> ... 10 mm <sup>2</sup>             |
| Nominal current                                                                           | 101 A (with 25 mm <sup>2</sup> conductor cross section) |
| Maximum load current                                                                      | 125 A (with 35 mm <sup>2</sup> conductor cross section) |
| Nominal voltage                                                                           | 800 V                                                   |
| Nominal cross section                                                                     | 35 mm <sup>2</sup>                                      |

### Ex data

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## Rated data (ATEX/IECEX)

|                                                     |                                      |
|-----------------------------------------------------|--------------------------------------|
| Identification                                      | II 2 GD Ex eb IIC Gb                 |
| Operating temperature range                         | -60 °C ... 180 °C                    |
| Ex-certified accessories                            | 0205067 D-SSK 135 KER<br>1201044 E/1 |
| List of bridges                                     | / KB- 15 / 0204259                   |
| Bridge data                                         | 100 A (35 mm²)                       |
| Ex temperature increase<br>for bridging with bridge | 40 K (116.5 A / 25 mm²)<br>550 V     |
| Rated insulation voltage                            | 500 V                                |
| output                                              | (Permanent)                          |

## Ex level General

|                      |        |
|----------------------|--------|
| Rated voltage        | 550 V  |
| Rated current        | 101 A  |
| Maximum load current | 113 A  |
| Contact resistance   | 0.2 mΩ |

## Ex connection data General

|                              |                   |
|------------------------------|-------------------|
| Torque range                 | 3.2 Nm ... 3.7 Nm |
| Nominal cross section        | 25 mm²            |
| Rated cross section AWG      | 3                 |
| Connection capacity rigid    | 1 mm² ... 35 mm²  |
| Connection capacity AWG      | 18 ... 2          |
| Connection capacity flexible | 1 mm² ... 25 mm²  |
| Connection capacity AWG      | 18 ... 3          |

## Dimensions

|                |         |
|----------------|---------|
| Width          | 15.3 mm |
| Height         | 53 mm   |
| Depth on NS 32 | 67 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

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

### Temperature-rise test

|                                   |                                |
|-----------------------------------|--------------------------------|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result                            | Test passed                    |

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0505055

<https://www.phoenixcontact.com/us/products/0505055>

## 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       |
| Result                  | Test passed |

## Environmental and real-life conditions

### Needle-flame test

|                  |      |
|------------------|------|
| Time of exposure | 30 s |
|------------------|------|

### 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



# SSK 135 KER-EX - Feed-through terminal block



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/0505055>

|  <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                 | 140 A                 | 14 - 2            | -                           |

|  <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                  | -                 | -                           |

|  <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 $\text{mm}^2$ |
|                                                                                                                                    | 550 V                 | 113 A                 | -                 | 1 - 35                      |
| Only flexible conductors                                                                                                           | 550 V                 | 101 A                 | -                 | 1 - 25                      |

|  <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 $\text{mm}^2$ |
|                                                                                                                                 | 550 V                 | 113 A                 | -                 | -                           |
| Only flexible conductors                                                                                                        | 550 V                 | 101 A                 | -                 | -                           |

# SSK 135 KER-EX - Feed-through terminal block

0505055

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**UKCA-EX**

Approval ID: CSAE 22UKEX1188U

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0505055

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## Classifications

### ECLASS

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