

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



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

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## Your advantages

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

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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	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 1201044 E/1
List of bridges	/ KB- 15 / 0204259
Bridge data	100 A / 35 mm <sup>2</sup>
Ex temperature increase	40 K (116.5 A / 25 mm <sup>2</sup> )
Rated voltage	550 V
for bridging with bridge	550 V
Rated insulation voltage	500 V
output	(Permanent)

## Ex level General

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 mm <sup>2</sup>
Rated cross section AWG	3
Connection capacity rigid	1 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Connection capacity AWG	18 ... 2
Connection capacity flexible	1 mm <sup>2</sup> ... 25 mm <sup>2</sup>
Connection capacity AWG	18 ... 3

## Dimensions

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

## Material specifications

Color	ivory
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
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### Temperature-rise test

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

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## Power-frequency withstand voltage

Test voltage setpoint	2 kV
Result	Test passed

## Mechanical properties

### Mechanical data

Open side panel	Yes
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## Mechanical tests

### Mechanical strength

Result	Test passed
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### 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
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### Ambient conditions

Ambient temperature (operation)	-60 °C ... 180 °C
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, no longer than 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
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## Mounting

Mounting type	NS 32
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## Drawings

### Circuit diagram



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