

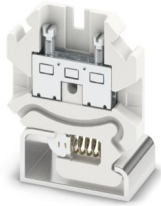
# SSK 0525 KER-EX - Feed-through terminal block



0501059

<https://www.phoenixcontact.com/us/products/0501059>

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Feed-through terminal block, connection method: screw connection, cross section:  $0.2 \text{ mm}^2 - 4 \text{ mm}^2$ , 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	BE12
Product key	BE1211
GTIN	4017918002480
Weight per piece (including packing)	19.99 g
Weight per piece (excluding packing)	19.964 g
Customs tariff number	85369010
Country of origin	DE

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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	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

Connection method	Screw connection
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, rigid	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 cross section	2.5 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

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## Ex data

### Rated data (ATEX/IECEX)

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

### Ex level General

Rated voltage	440 V
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 mm <sup>2</sup>
Rated cross section AWG	12
Connection capacity rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Connection capacity AWG	24 ... 12
Connection capacity flexible	0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>
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
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Result	Test passed
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## Temperature-rise test

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
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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
Test force setpoint	1 N
Result	Test passed

### Test for conductor damage and slacking

Rotation speed	10 rpm
Revolutions	135
Conductor cross-section/weight	0.2 mm <sup>2</sup> / 0.2 kg 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
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## 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/us/products/0501059>


 <b>CSA</b> 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	20 A	22 - 12	-

 <b>EAC Ex</b> Approval ID: KZ 7500525010101950				
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 <b>IECEx</b> Approval ID: IECExKIWA17.0009U				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	440 V	28 A	-	0.2 - 4
Only flexible conductors	440 V	28 A	-	0.2 - 4

 <b>ATEX</b> Approval ID: KIWA17ATEX0022U				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	440 V	28 A	-	-
Only flexible conductors	440 V	28 A	-	-

 <b>CCC</b> Approval ID: 2020322313000628				
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 <b>DNV GL-EX</b> 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

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



**UKCA-EX**

Approval ID: CSAE 22UKEX1188U

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## Classifications

### ECLASS

ECLASS-13.0	27250101
ECLASS-15.0	27250101

### ETIM

ETIM 10.0	EC000897
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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### EF3.1 Climate Change

CO2e kg	0.831 kg CO2e
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