

SSK 135 KER-EX - Feed-through terminal block



0505055

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

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Feed-through terminal block, connection method: screw connection, cross section: 1 mm² - 35 mm², 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	0100*
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

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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 ²

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 ² ... 35 mm ²
Cross section AWG	18 ... 2 (converted acc. to IEC)
Conductor cross section flexible	1 mm ² ... 25 mm ²
Conductor cross section, flexible [AWG]	18 ... 4 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.75 mm ² ... 25 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.75 mm ² ... 16 mm ²
2 conductors with same cross section, solid	0.75 mm ² ... 10 mm ²
2 conductors with same cross section, flexible	0.75 mm ² ... 10 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.75 mm ² ... 10 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.75 mm ² ... 10 mm ²
Nominal current	101 A (with 25 mm ² conductor cross section)
Maximum load current	125 A (with 35 mm ² conductor cross section)
Nominal voltage	800 V
Nominal cross section	35 mm ²

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	0205067 D-SSK 135 KER 1201044 E/1
List of bridges	/ KB- 15 / 0204259
Bridge data	100 A / 35 mm ²
Ex temperature increase	40 K (116.5 A / 25 mm ²)
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 ²
Rated cross section AWG	3
Connection capacity rigid	1 mm ² ... 35 mm ²
Connection capacity AWG	18 ... 2
Connection capacity flexible	1 mm ² ... 25 mm ²
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
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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, 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/sg/products/0505055>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
not as Ex approval	600 V	140 A	14 - 2	-

 ATEX Approval ID: KIWA17ATEX0022U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	440 V	64.5 A	-	-
Only flexible conductors	440 V	55 A	-	-

 EAC Ex Approval ID: KZ 7500525010101950				
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 IECEx Approval ID: IECExKIWA17.0009U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	550 V	113 A	-	1 - 35
Only flexible conductors	550 V	101 A	-	1 - 25

 CCC Approval ID: 2020322313000628				
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 DNV GL-EX Approval ID: TAE00003K6				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
EEx e II part certificate	440 V	32 A	-	- 2.5

 ATEX Approval ID: KIWA17ATEX0022U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	550 V	113 A	-	-
Only flexible conductors	550 V	101 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
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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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