

SSK 110 KER-EX - Feed-through terminal block



0502058

<https://www.phoenixcontact.com/sg/products/0502058>

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Feed-through terminal block, connection method: screw connection, cross section: 0.5 mm² - 10 mm², 20 - 8 AWG, width: 8.4 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	0502058
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	0100*
Product key	BE1211
Catalog page	Page 542 (C-1-2019)
GTIN	4017918002510
Weight per piece (including packing)	28.78 g
Weight per piece (excluding packing)	26.08 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	1.31 W

Connection data

Number of connections per level	2
Nominal cross section	6 mm ²

Level 1 above 1 below 1

Screw thread	M4
Tightening torque	1.5 ... 1.8 Nm
Stripping length	10 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.5 mm ² ... 10 mm ²
Cross section AWG	20 ... 8 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm ² ... 6 mm ²
Conductor cross section, flexible [AWG]	20 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm ² ... 6 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm ² ... 4 mm ²
2 conductors with same cross section, solid	0.5 mm ² ... 2.5 mm ²
2 conductors with same cross section, flexible	0.5 mm ² ... 2.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm ² ... 2.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 2.5 mm ²
Nominal current	41 A
Maximum load current	57 A (with 10 mm ² conductor cross section)
Nominal voltage	800 V
Nominal cross section	6 mm ²

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	0202060 D-SSK 110 KER 1201044 E/1
List of bridges	Chain bridge / KB- 8 / 0202206
Bridge data	49 A / 10 mm²
Ex temperature increase	40 K (40.3 A / 6 mm²)
Rated voltage	440 V
for bridging with bridge	440 V
Rated insulation voltage	400 V
output	(Permanent)

Ex level General

Rated current	36.5 A
Maximum load current	49 A
Contact resistance	0.74 mΩ

Ex connection data General

Torque range	1.5 Nm ... 1.8 Nm
Nominal cross section	6 mm²
Rated cross section AWG	10
Connection capacity rigid	0.5 mm² ... 10 mm²
Connection capacity AWG	20 ... 8
Connection capacity flexible	0.5 mm² ... 6 mm²
Connection capacity AWG	20 ... 10

Dimensions

Width	8 mm
End cover width	4 mm
Height	38.4 mm
Depth	47.3 mm
Depth on NS 32	50.2 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

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Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 6 mm ²	0.72 kA
Short-time withstand current 10 mm ²	1.2 kA
Result	Test passed

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
Test force setpoint	5 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.5 mm ² / 0.3 kg
	6 mm ² / 1.4 kg
	10 mm ² / 2 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/sg/products/0502058>

 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	55 A	26 - 8	-

 ATEX Approval ID: KIWA17ATEX0022U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	440 V	49 A	-	0.5 - 10
Only flexible conductors	440 V	36.5 A	-	0.5 - 6

 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
	440 V	49 A	-	0.5 - 10
Only flexible conductors	440 V	36.5 A	-	0.5 - 6

 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
	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
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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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