

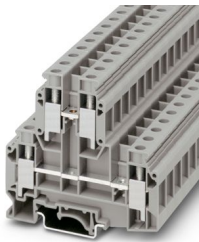
UKKB 10 - Double-level terminal block



2772077

<https://www.phoenixcontact.com/sg/products/2772077>

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Double-level terminal block, nom. voltage: 500 V, nominal current: 57 A, connection method: Screw connection, 1st and 2nd level, Rated cross section: 10 mm², cross section: 0.5 mm² - 16 mm², Rated cross section: 10 mm², cross section: 0.5 mm² - 16 mm², mounting type: NS 35/7,5, NS 35/15, NS 32, color: gray

Your advantages

- Design width of just 10.2 mm

Commercial data

Item number	2772077
Packing unit	50 pc
Minimum order quantity	1 pc
Sales key	0121*
Product key	BE1214
Catalog page	Page 474 (C-1-2019)
GTIN	4017918068240
Weight per piece (including packing)	41.544 g
Weight per piece (excluding packing)	41.544 g
Customs tariff number	85369010
Country of origin	TR

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Technical data

Product properties

Product type	Multi-level terminal block
Product family	UKKB
Number of connections	4
Number of rows	2
Potentials	2

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	1.82 W

Connection data

Number of connections per level	2
Nominal cross section	10 mm ²

1st and 2nd level

Screw thread	M4
Tightening torque	1.5 ... 1.8 Nm
Stripping length	11 mm
Internal cylindrical gage	B6
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.5 mm ² ... 16 mm ²
Cross section AWG	20 ... 6 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm ² ... 10 mm ²
Conductor cross section, flexible [AWG]	20 ... 8 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm ² ... 10 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm ² ... 6 mm ²
2 conductors with same cross section, solid	0.5 mm ² ... 6 mm ²
2 conductors with same cross section, flexible	0.5 mm ² ... 4 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm ² ... 6 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 6 mm ²
Nominal current	57 A
Maximum load current	76 A (with 16 mm ² conductor cross section)
Nominal voltage	500 V
Nominal cross section	10 mm ²
Screw thread	M4
Tightening torque	1.5 ... 1.8 Nm

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Stripping length	11 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.5 mm² ... 16 mm²
Cross section AWG	20 ... 6 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm² ... 10 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² ... 10 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm² ... 6 mm²
2 conductors with same cross section, solid	0.5 mm² ... 6 mm²
2 conductors with same cross section, flexible	0.5 mm² ... 4 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm² ... 6 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 6 mm²
Nominal current	57 A
Maximum load current	76 A (with 16 mm² conductor cross section)
Nominal cross section	10 mm²

Dimensions

Width	10.2 mm
End cover width	1.5 mm
Height	77.5 mm
Depth on NS 32	78 mm
Depth on NS 35/7,5	73 mm
Depth on NS 35/15	80.5 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

Electrical tests

Surge voltage test

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Test voltage setpoint	7.3 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 10 mm ²	1.2 kA
Short-time withstand current 16 mm ²	1.92 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/NS 35
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
	10 mm ² / 2 kg
	16 mm ² / 2.9 kg
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

Ambient conditions

Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
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

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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
	IEC 60947-7-1

Mounting

Mounting type	NS 35/7,5
	NS 35/15
	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/2772077>

 CSA Approval ID: 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	300 V	65 A	24 - 6	-

 IECEE CB Scheme Approval ID: NL-39732				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	500 V	-	-	- 10

 EAC Approval ID: EACKZ 08593				
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 KEMA-KEUR Approval ID: 71-126336 REV.1				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	500 V	-	-	0.5 - 10

 cULus Recognized Approval ID: E60425				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B	300 V	65 A	24 - 6	-
Use group C	300 V	65 A	24 - 6	-
Use group F	500 V	65 A	24 - 6	-
Use group D	600 V	5 A	24 - 6	-

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Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250102

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
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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