

# UKH 95 - High-current terminal block

3010013

<https://www.phoenixcontact.com/ie/products/3010013>



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High-current terminal block, nom. voltage: 1000 V, nominal current: 232 A, number of connections: 2, connection method: Screw connection, Rated cross section: 95 mm<sup>2</sup>, cross section: 25 mm<sup>2</sup> - 95 mm<sup>2</sup>, mounting type: NS 35/15, NS 32, color: gray

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## Your advantages

- Reliable cable connection is ensured by three-point centering of the conductor in the prismatic sleeve base
- Low contact resistance of the contact surface due to ribbing
- Screw locking by means of spring-loaded elements in the clamping part

## Technical data

### Notes

General	Screws with hexagonal socket
General	
Note	For a reliable contact of multi stranded conductors it is recommended to untwist multi stranded conductors.

### Product properties

Product type	High current 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	7.54 W

### Connection data

Number of connections per level	2
Nominal cross section	95 mm <sup>2</sup>

#### Level 1 above 1 below 1

Connection method	Screw connection
Screw thread	M8
Note	Screws with hexagonal socket
Tightening torque	15 ... 20 Nm
Stripping length	33 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	25 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Cross section AWG	2 ... 3/0 (converted acc. to IEC)
Conductor cross-section flexible	35 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	1/0 ... 3/0 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	35 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	35 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Cross-section with insertion bridge, rigid	95 mm <sup>2</sup>
Cross-section with insertion bridge, flexible	70 mm <sup>2</sup>
2 conductors with same cross section, rigid	25 mm <sup>2</sup> ... 35 mm <sup>2</sup>
2 conductors with same cross section, flexible	25 mm <sup>2</sup> ... 35 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule	16 mm <sup>2</sup> ... 35 mm <sup>2</sup>

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without plastic sleeve	
Nominal cross section	95 mm <sup>2</sup>
Nominal current	232 A
Maximum load current	232 A
Nominal voltage	1000 V
Note	Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area.

## Ex data

### Rated data (ATEX/IECEx)

Identification	Ⓜ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	1201934 VDE-ISS 6 1201659 E/AL-NS 32 1201662 E/AL-NS 35
List of bridges	Insertion bridge / EB 2-25/UKH / 0201362 Insertion bridge / EB 3-25/UKH / 0201375
Bridge data	177 A (95 mm <sup>2</sup> )
Ex temperature increase	40 K (238.1 A / 95 mm <sup>2</sup> )
at bridging with insertion bridge	690 V
Rated insulation voltage	800 V
output	(Permanent)

### Ex level General

Rated voltage	880 V
Rated current	216 A
Maximum load current	216 A
Contact resistance	0.06 mΩ

### Ex connection data General

Torque range	15 Nm ... 20 Nm
Nominal cross section	95 mm <sup>2</sup>
Rated cross section AWG	3/0
Connection capacity rigid	25 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Connection capacity AWG	4 ... 3/0
Connection capacity flexible	35 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Connection capacity AWG	2 ... 3/0
2 conductors with same cross section, solid	25 mm <sup>2</sup> ... 35 mm <sup>2</sup>
2 conductors with the same cross-section AWG rigid	4 ... 2
2 conductors with same cross section, stranded	25 mm <sup>2</sup> ... 35 mm <sup>2</sup>
2 conductors with the same cross-section AWG flexible	4 ... 2

## Dimensions

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Dimensional drawing	
Width	25 mm
Height	83 mm
Depth	90 mm
Depth on NS 32	95.5 mm
Depth on NS 35/7,5	90.1 mm
Depth on NS 35/15	97.6 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
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
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

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 95 mm <sup>2</sup>	11.4 kA
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

## Mechanical properties

### General

Terminal block mounting	15 Nm ... 20 Nm
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## Mechanical data

Open side panel	No
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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
Result	Test passed

### Test for conductor damage and slackening

Rotation speed	10 (+/- 2) rpm
Revolutions	135
Conductor cross-section/weight	25 mm <sup>2</sup> / 4.5 kg
	35 mm <sup>2</sup> / 6.8 kg
	95 mm <sup>2</sup> /14 kg
Result	Test passed

## Environmental and real-life conditions

### Needle-flame test

Time of exposure	30 s
Result	Test passed

### Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2022-06
Spectrum	Long life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

### Shocks

Specification	DIN EN 50155 (VDE 0115-200):2022-06
Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

### Ambient conditions

Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating;
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	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
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 35/15
	NS 32
Terminal block mounting	15 Nm ... 20 Nm

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