

# UKH 95 1500V - High-current terminal block



3247419

<https://www.phoenixcontact.com/us/products/3247419>

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High-current terminal block, nom. voltage: 1500 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

## Your advantages

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

## Commercial data

Item number	3247419
Packing unit	3 pc
Minimum order quantity	3 pc
Product key	BE1311
GTIN	4055626132969
Weight per piece (including packing)	230.733 g
Weight per piece (excluding packing)	230.733 g
Country of origin	IN

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## Technical data

### Notes

#### General

Note	For a reliable contact of multi stranded conductors it is recommended to untwist multi stranded conductors.
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### 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 without plastic sleeve	16 mm <sup>2</sup> ... 35 mm <sup>2</sup>

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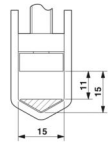


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Nominal cross section	95 mm <sup>2</sup>
Nominal current	232 A
Maximum load current	232 A
Nominal voltage	1500 V DC 1000 V AC
Note	Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area.

## Dimensions

Dimensional drawing	
Width	25 mm
Height	85.5 mm
Depth	90 mm
Depth on NS 32	95 mm
Depth on NS 35/15	97.5 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
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

Test voltage setpoint	14.8 kV
Result	Test passed

### Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 95 mm <sup>2</sup>	11.4 kA

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Result	Test passed
Power-frequency withstand voltage	
Test voltage setpoint	3.82 kV
Result	Test passed

## Mechanical properties

### 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

Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 ms

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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; 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

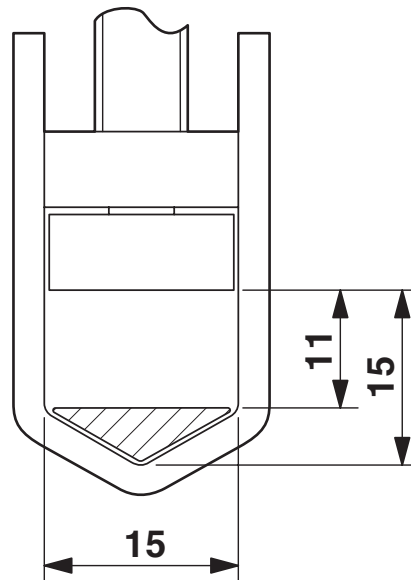
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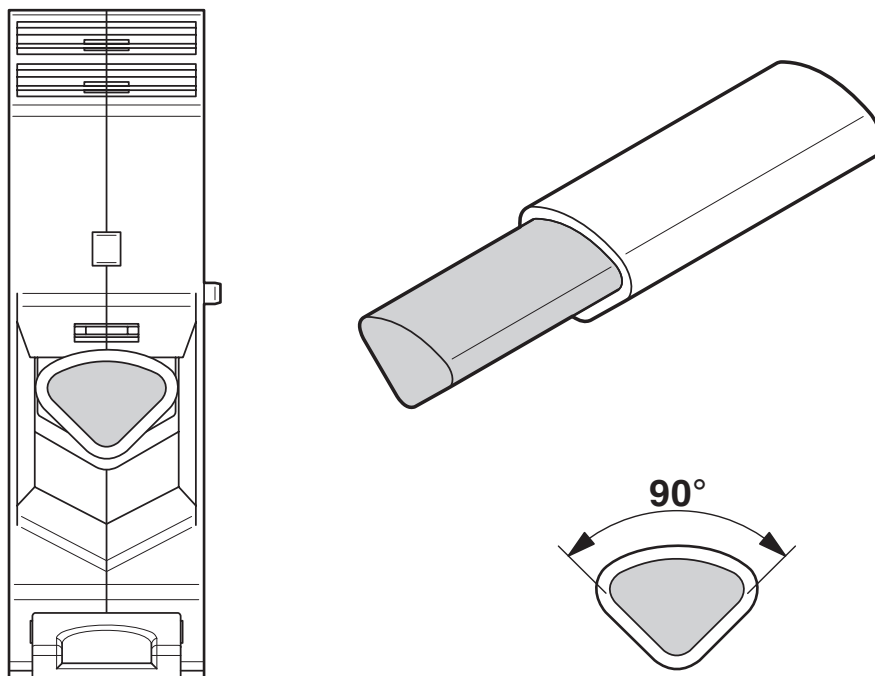
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## Drawings

Dimensional drawing



Schematic diagram



Connecting aluminum cables. Further notes can be found in the download area

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Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3247419>



**EAC**

Approval ID: KZ7500651131219505

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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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