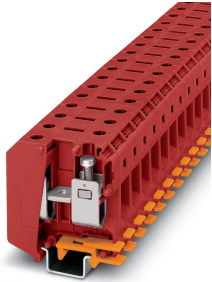**PHŒNIX CONTACT**

High-current terminal block - UKH 50 RD - 3048344

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High-current terminal block, nom. voltage: 1000 V, nominal current: 150 A, connection method: Screw connection, cross section: 16 mm² - 50 mm², mounting type: NS 35/7,5, NS 35/15, NS 32, NS 35/15-2,3, color: red

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

RoHS **Ex** COMPLETE line

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	200 pc
GTIN	4 017918 954826
GTIN	4017918954826
Weight per Piece (excluding packing)	122.000 g
Custom tariff number	85369010
Country of origin	India

Technical data

General

Number of positions	1
Number of rows	1
Number of connections	2
Potentials	1
Nominal cross section	50 mm²

PHŒNIX CONTACT

High-current terminal block - UKH 50 RD - 3048344

Technical data

General

Color	red
Insulating material	PA
Flammability rating according to UL 94	V0
Mounting type	NS 35/7,5
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum load current	150 A (with 50 mm² conductor cross section)
Nominal current I_N	150 A
Nominal voltage U_N	1000 V
Open side panel	No
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Note regarding shock protection	Finger-safe protection is not guaranteed if bridges are positioned.

Dimensions

Width	20 mm
Length	70.5 mm
Height NS 35/15	83.5 mm
Height NS 32	81 mm

Connection data

Connection method	Screw connection
Screw thread	M6
Stripping length	24 mm
Tightening torque, min	6 Nm
Tightening torque max	8 Nm
Note	Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area.
Conductor cross section solid min.	16 mm²
Conductor cross section solid max.	50 mm²
Conductor cross section AWG min.	6
Conductor cross section AWG max.	1/0
Conductor cross section flexible min.	25 mm²
Conductor cross section flexible max.	50 mm²
Min. AWG conductor cross section, flexible	3
Max. AWG conductor cross section, flexible	1/0

High-current terminal block - UKH 50 RD - 3048344

Technical data

Connection data

Conductor cross section flexible, with ferrule without plastic sleeve min.	25 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	50 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	25 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	50 mm²
2 conductors with same cross section, solid min.	10 mm²
2 conductors with same cross section, solid max.	16 mm²
2 conductors with same cross section, stranded min.	10 mm²
2 conductors with same cross section, stranded max.	16 mm²
Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, minimum	10 mm²
Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, maximum	16 mm²
Internal cylindrical gage	B10

Ambient conditions

Operating temperature	-60 °C ... 105 °C (max. short-term operating temperature 125°C)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Permissible humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C

Standards and Regulations

Connection in acc. with standard	CSA

Environmental Product Compliance
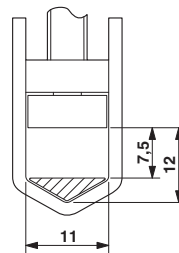
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

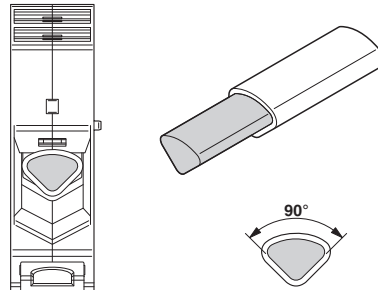## Drawings

Circuit diagram

Dimensional drawing

High-current terminal block - UKH 50 RD - 3048344

Schematic diagram

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

Classifications

eCl@ss

eCl@ss 10.0.1	27141120
eCl@ss 11.0	27141120
eCl@ss 4.0	27141100
eCl@ss 4.1	27141100
eCl@ss 5.0	27141100
eCl@ss 5.1	27141100
eCl@ss 6.0	27141100
eCl@ss 7.0	27141120
eCl@ss 9.0	27141120

ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 6.0	EC000897
ETIM 7.0	EC000897

UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410
UNSPSC 18.0	39121410
UNSPSC 19.0	39121410
UNSPSC 20.0	39121410

PHŒNIX CONTACT

High-current terminal block - UKH 50 RD - 3048344

Classifications

UNSPSC

UNSPSC 21.0	39121410

Approvals

Approvals

Approvals

DNV GL / CSA / PRS / LR / IECEE CB Scheme / EAC / VDE Zeichengenehmigung / LR / EAC / cULus Recognized

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Ex Approvals

IECEx / UL Recognized / cUL Recognized / EAC Ex / ATEX / NEPSI / CCC / cULus Recognized

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Approval details

DNV GL		https://approvalfinder.dnvgl.com/	TAE00001CT

CSA		http://www.csagroup.org/services-industries/product-listing/		13631
		B	C	
Nominal voltage UN		600 V	600 V	
Nominal current IN		150 A	150 A	
mm²/AWG/kcmil		6	6	

PRS		http://www.prs.pl/	TE/2156/880590/17

LR	Lloyd's Register	http://www.lr.org/en	LR2041789TA

High-current terminal block - UKH 50 RD - 3048344

Approvals

IECEE CB Scheme	CB scheme		http://www.iecee.org/	DE1-62936
Nominal voltage UN			1000 V	
Nominal current IN			150 A	
mm²/AWG/kcmil			50	

EAC	EAC			RU C-DE.AI30.B.01102

VDE Zeichengenehmigung	VDE	http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40036368
Nominal voltage UN		1000 V	
Nominal current IN		150 A	
mm²/AWG/kcmil		50	

LR	Lloyd's Register	http://www.lr.org/en	LR2004271TA

EAC	EAC		RU C-DE.BL08.B.00534

cULus Recognized	ᶜ🆄🆄ᵁˢ	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		E60425
		B	C	
Nominal voltage UN		600 V	600 V	
Nominal current IN		150 A	150 A	
mm²/AWG/kcmil		6	6	

Accessories

Accessories

High-current terminal block - UKH 50 RD - 3048344

Accessories

DIN rail

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733

DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681

DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

DIN rail perforated - NS 35/ 7,5 WH PERF 2000MM - 1204119

DIN rail perforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver

DIN rail, unperforated - NS 35/ 7,5 WH UNPERF 2000MM - 1204122

DIN rail, unperforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver

DIN rail, unperforated - NS 35/ 7,5 AL UNPERF 2000MM - 0801704

DIN rail, unperforated, acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

PHŒNIX CONTACT

High-current terminal block - UKH 50 RD - 3048344

Accessories

DIN rail perforated - NS 35/ 7,5 ZN PERF 2000MM - 1206421

DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver

DIN rail, unperforated - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434

DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver

DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM - 0801762

DIN rail, unperforated, acc. to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored

End cap - NS 35/ 7,5 CAP - 1206560

DIN rail end piece, for DIN rail NS 35/7.5

DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM - 1201798

DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile 2.3 mm, color: silver

PHŒNIX CONTACT

High-current terminal block - UKH 50 RD - 3048344

Accessories

DIN rail perforated - NS 32 PERF 2000MM - 1201002

DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, G profile, color: silver

DIN rail, unperforated - NS 32 UNPERF 2000MM - 1201015

DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, G profile, color: silver

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730

DIN rail perforated, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714

DIN rail, unperforated, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602

DIN rail perforated, similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver

High-current terminal block - UKH 50 RD - 3048344

Accessories

DIN rail, unperforated - NS 35/15 WH UNPERF 2000MM - 1204135

DIN rail, unperforated, similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756

DIN rail, unperforated, similar to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599

DIN rail perforated, similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586

DIN rail, unperforated, similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895

DIN rail, unperforated, similar to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored

High-current terminal block - UKH 50 RD - 3048344

Accessories

End cap - NS 35/15 CAP - 1206573

DIN rail end piece, for DIN rail NS 35/15

End block

End clamp - E/AL-NS 32 - 1201659

End clamp, for end support of UKH 50 - UKH 240, is pushed onto DIN rail NS 32 and fixed with 2 screws, width: 10 mm, color: Aluminum

End clamp - E/AL-NS 35 - 1201662

End clamp, for end support of UKH 50 to UKH 240, is pushed onto DIN rail NS 35 and fixed with 2 screws, width: 10 mm, color: aluminum

Labeled terminal marker

Warning label - WS-2K - 1004513

Adhesive warning plate, self-adhesive, black print: lightning flash with mixed verson - "Vorsicht Spannung - Attention Danger" size of label: 32 x 26 mm

Warning label - WS-4K - 1004584

Adhesive warning plate, self-adhesive, black print: lightning flash with mixed verson - "Vorsicht Spannung - Attention Danger" size of label: 13 x 23.5 mm

High-current terminal block - UKH 50 RD - 3048344

Accessories

Zack marker strip - ZB 10 CUS - 0824941

Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Zack marker strip - ZB10,LGS:FORTL.ZAHLEN - 1053014

Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Zack marker strip - ZB10,QR:FORTL.ZAHLEN - 1053027

Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Marker for terminal blocks - ZB10,LGS:L1-N,PE - 1053412

Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Marker for terminal blocks - ZB10,LGS:U-N - 1053438

Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: U, V, W, N, GND, U, V, W, N, GND, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

PHŒNIX CONTACT

High-current terminal block - UKH 50 RD - 3048344

Accessories

Marker for terminal blocks - UC-TM 10 CUS - 0824605

Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

Marker for terminal blocks - UCT-TM 10 CUS - 0829623

Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

Marker pen

Marker pen - X-PEN 0,35 - 0811228

Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

Mounting material

Insertion profile - UKH 50 EP - 3009228

Insertion profile, color: silver

Pick-off terminal block

PHŒNIX CONTACT

High-current terminal block - UKH 50 RD - 3048344

Accessories

Pick-off terminal block - AGK 10-UKH 50 - 3001763

Pick-off terminal block, Can only be used in conjunction with UKH 50/70, nom. voltage: 1000 V, nominal current: 57 A, connection method: Screw connection, Rated cross section: 10 mm², cross section: 0.5 mm² - 10 mm², color: gray

Screw bridge

Fixed bridge - FBI 2-20 - 0201346

Fixed bridge, pitch: 20 mm, color: silver

Fixed bridge - FBI 3-20 - 0201317

Fixed bridge, pitch: 20 mm, color: silver

Fixed bridge - FBI 2-20-EX - 0201113

Fixed bridge, color: silver

Fixed bridge - FBI 3-20-EX - 0201812

Fixed bridge, color: silver

PHŒNIX CONTACT

High-current terminal block - UKH 50 RD - 3048344

Accessories

Screwdriver tools

Screwdriver - SZS 1,2X8,0 VDE - 1205082

Screwdriver, slot-headed, VDE insulated, size: 1.2 x 8.0 x 175 mm, 2-component grip, with non-slip grip

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Terminal marking

Zack marker strip - ZB 10:UNBEDRUCKT - 1053001

Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.5 x 10.15 mm, Number of individual labels: 10

Marker for terminal blocks - UC-TM 10 - 0818069

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

Marker for terminal blocks - UCT-TM 10 - 0829142

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

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