

# UK 35 RD - Feed-through terminal block



3048328

<https://www.phoenixcontact.com/sg/products/3048328>

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 2, number of positions: 1, connection method: Screw connection, cross section: 0.75 mm<sup>2</sup> - 50 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, NS 32, color: red

## Your advantages

- The large wiring space enables the connection of solid and stranded conductors without ferrules, even above the nominal cross section
- As well as saving space, the compact design enables user-friendly wiring in a small amount of space
- Optimum screwdriver guidance through closed screw shafts

## Commercial data

Item number	3048328
Packing unit	50 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	BE1211
GTIN	4017918954840
Weight per piece (including packing)	57.6 g
Weight per piece (excluding packing)	55.826 g
Customs tariff number	85369010
Country of origin	DE

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## Technical data

### Product properties

Product type	Feed-through terminal block
Number of positions	1
Number of connections	2
Number of rows	1

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	0.77 W

### Connection data

Number of connections per level	2
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#### Level 1 above 1 below 1

Screw thread	M6
Tightening torque	3.2 ... 3.7 Nm
Stripping length	16 mm
Internal cylindrical gage	B9
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.75 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Cross section AWG	18 ... 2 (converted acc. to IEC)
Conductor cross section flexible	0.75 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	18 ... 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.75 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.75 mm <sup>2</sup> ... 35 mm <sup>2</sup>
2 conductors with same cross section, solid	0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup>
2 conductors with same cross section, flexible	0.75 mm <sup>2</sup> ... 10 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.75 mm <sup>2</sup> ... 10 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.75 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Nominal current	125 A
Maximum load current	150 A (with 50 mm <sup>2</sup> conductor cross section)
Nominal voltage	1000 V

### Ex data

#### Rated data (ATEX/IECEx)

Identification	⊕ II 2 GD Ex eb IIC Gb
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Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	3008096 TP-UK 35
	1205079 SZS 1,0X6,5 VDE
	1201442 E/UK
List of bridges	Fixed bridge / FBI 2-15 / 0201333
	Fixed bridge / FBI 3-15 / 0201278
Bridge data	118.5 A (35 mm <sup>2</sup> )
List of bridges	Insertion bridge / EB 2-15 K/UK 35 / 0205119
	Insertion bridge / EB 10-15 / 0205135
Bridge data	105.5 A (35 mm <sup>2</sup> )
List of bridges	Chain bridge / KBI- 15 / 0205203
Bridge data	116 A (35 mm <sup>2</sup> )
Ex temperature increase	40 K (130.5 A / 35 mm <sup>2</sup> )
Rated voltage	690 V
at bridging with insertion bridge	690 V
for bridging with bridge	690 V
Rated insulation voltage	630 V
output	(Permanent)

## Ex level General

Rated current	118.5 A
Maximum load current	147 A
Contact resistance	0.08 mΩ

## Ex connection data General

Torque range	3.2 Nm ... 3.7 Nm
Nominal cross section	35 mm <sup>2</sup>
Rated cross section AWG	2
Connection capacity rigid	0.75 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Connection capacity AWG	18 ... 1/0
Connection capacity flexible	0.75 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Connection capacity AWG	18 ... 2
2 conductors with same cross section, solid	0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup>
2 conductors with the same cross-section AWG rigid	18 ... 6
2 conductors with same cross section, stranded	0.75 mm <sup>2</sup> ... 10 mm <sup>2</sup>
2 conductors with the same cross-section AWG flexible	18 ... 8

## Dimensions

Width	15.1 mm
Height	50 mm
Depth on NS 32	67 mm
Depth on NS 35/7,5	62 mm
Depth on NS 35/15	69.5 mm

## Material specifications

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Color	red (RAL 3001)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA

## Electrical tests

### Surge voltage test

Test voltage setpoint	9.8 kV
Result	Test passed

### Temperature-rise test

Requirement temperature-rise test	Increase in temperature $\leq 45$ K
Result	Test passed
	Test passed
Short-time withstand current 35 mm <sup>2</sup>	4.2 kA
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	2.2 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
Test force setpoint	10 N
Result	Test passed

### Test for conductor damage and slackening

Rotation speed	10 (+/- 2) rpm
Revolutions	135
Conductor cross section/weight	0.75 mm <sup>2</sup> / 0.4 kg
	35 mm <sup>2</sup> / 6.8 kg
	50 mm <sup>2</sup> / 9.5 kg
Result	Test passed

## Environmental and real-life conditions

### Needle-flame test

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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	$6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$
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	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

## Ambient conditions

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 (storage/transport)	30 % ... 70 %

## Standards and regulations

Connection in acc. with standard	IEC 60947-7-1
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## Mounting

Mounting type	NS 35/7,5
	NS 35/15
	NS 32

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/3048328>

<b>DNV</b> Approval ID: TAE00001CT				
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<b>CSA</b> Approval ID: 13631				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
Use group B	600 V	150 A	18 - 1/0	-
Use group C	600 V	150 A	18 - 1/0	-
With ATP	1000 V	150 A	18 - 1/0	-

<b>CB Scheme</b> Approval ID: NL-26111				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
	1000 V	-	-	- 35

<b>cULus Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
Use group B	600 V	150 A	18 - 1/0	-
Use group C	600 V	150 A	18 - 1/0	-
Use group F	1000 V	150 A	18 - 1/0	-

<b>KEMA-KEUR</b> Approval ID: 71-119836				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
	1000 V	-	-	0.75 - 35

<b>ClassNK</b> Approval ID: 09 ME 141				
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<b>ATEX</b>				
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Approval ID: KEMA98ATEX1786U



**cUL Recognized**  
Approval ID: E192998

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	600 V	150 A	18 - 1/0	-



**EAC Ex**  
Approval ID: KZ 7500525010101950



**GL**  
Approval ID: 98876-96 HH

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
EEx e II part certificate	690 V	118.5 A	-	- 35



**IECEX**  
Approval ID: IECEX KEM 06.0029U



**UL Recognized**  
Approval ID: E192998

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	600 V	150 A	18 - 1/0	-



**CCC**  
Approval ID: 2020322313000623



**DNV GL-EX**  
Approval ID: TAE00003K6

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
EEx e II part certificate	440 V	32 A	-	- 2.5

**cULus Recognized**

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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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