

# UT 35 IB BU - Feed-through terminal block



3047730

<https://www.phoenixcontact.com/us/products/3047730>

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Feed-through terminal block, with Allen screws, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 2, connection method: Screw connection, Rated cross section: 35 mm<sup>2</sup>, cross section: 1.5 mm<sup>2</sup> - 50 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: blue

## Your advantages

- Globally recognized: Internationally proven screw connection
- Maintenance-free and vibration-resistant thanks to the patented Reakdyn principle
- Space savings and flexibility with the connection of two identical conductors
- Long-term stable connections with the use of high-quality materials
- Low self-heating due to high contact forces
- Full flexibility thanks to the standardized CLIPLINE complete bridging, marking, and testing accessories
- Vibration-resistant and maintenance-free conductor connection

## Commercial data

Item number	3047730
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE01
Product key	BE1111
GTIN	4046356178488
Weight per piece (including packing)	58.692 g
Weight per piece (excluding packing)	58.692 g
Customs tariff number	85369010
Country of origin	TR

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## Technical data

### Product properties

Product type	Feed-through terminal block
Product family	UT
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	4.06 W

### Connection data

Number of connections per level	2
Nominal cross section	35 mm <sup>2</sup>

### Level 1 above 1 below 1

Connection method	Screw connection
Screw thread	M6
Tightening torque	3.2 ... 3.7 Nm
Stripping length	18 mm
Internal cylindrical gage	B9
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	1.5 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Cross section AWG	14 ... 0 (converted acc. to IEC)
Conductor cross-section flexible	1.5 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	14 ... 0 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	1.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
2 conductors with same cross section, rigid	1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
2 conductors with same cross section, flexible	1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Nominal cross section	35 mm <sup>2</sup>
Nominal current	125 A
Maximum load current	150 A (with 50 mm <sup>2</sup> conductor cross-section)

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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	1212640 SF-THEX 4-150 3022276 CLIPFIX 35-5 3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-16 / 3005963
Bridge data	98.5 A (35 mm <sup>2</sup> )
Ex temperature increase for bridging with bridge	40 K (133.6 A / 35 mm <sup>2</sup> ) 690 V
Rated insulation voltage output	630 V (Permanent)

### Ex level General

Rated voltage	690 V
Rated current	123 A
Maximum load current	129 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	1.5 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Connection capacity AWG	16 ... 1/0
Connection capacity flexible	1.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Connection capacity AWG	16 ... 2
2 conductors with same cross section, solid	1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
2 conductors with the same cross-section AWG rigid	16 ... 6
2 conductors with same cross section, stranded	1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
2 conductors with the same cross-section AWG flexible	16 ... 8

## Dimensions

Width	16 mm
End cover width	2.2 mm
Height	61.2 mm
Depth	65.1 mm
Depth on NS 35/7,5	65.7 mm
Depth on NS 35/15	73.2 mm

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## Material specifications

Color	blue (RAL 5015)
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

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
Short-time withstand current 35 mm <sup>2</sup>	4.2 kA
Short-time withstand current 50 mm <sup>2</sup>	6 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 35
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Test force setpoint	10 N
Result	Test passed

## Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross-section/weight	1.5 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

Time of exposure	30 s
Result	Test passed

### Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Long life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	1.857 (m/s <sup>2</sup> )/Hz
Acceleration	0.8g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

### Shocks

Specification	DIN EN 50155 (VDE 0115-200):2008-03
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; 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

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

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

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## Drawings

### Circuit diagram



# UT 35 IB BU - Feed-through terminal block





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## Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3047730>

 **CSA**  
Approval ID: 13631


 **cULus Recognized**  
Approval ID: E60425

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
B	600 V	150 A	14 - 1/0	-
C	600 V	150 A	14 - 1/0	-
E	1000 V	150 A	14 - 1/0	-


 **CSA**  
Approval ID: 13631


 **ATEX**  
Approval ID: KEMA04ATEX2048U

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
Only flexible conductors	690 V	123 A	-	1.5 - 35
Only rigid conductors	690 V	129 A	-	1.5 - 50

 **cUL Recognized**  
Approval ID: E192998

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine	600 V	150 A	14 - 1/0	14

 **EAC Ex**  
Approval ID: KZ 7500525010101950

 **IECEX**  
Approval ID: IECEXKEM06.0027U

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$


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keine				
Only flexible conductors	690 V	123 A	-	1.5 - 35
Only rigid conductors	690 V	129 A	-	1.5 - 50

 <b>UL Recognized</b> Approval ID: E192998				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	150 A	14 - 1/0	-

 <b>CCC</b> Approval ID: 2020322313000622
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 <b>UKCA-EX</b> Approval ID: DEKRA 21UKEX0304U
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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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### EF3.1 Climate Change

CO2e kg	0.523 kg CO2e
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