

# UT 2,5/1P BU - Feed-through terminal block



3045020

<https://www.phoenixcontact.com/us/products/3045020>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, number of connections: 2, connection method: Screw/plug-in connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: blue

## Your advantages

- Terminal blocks that can be connected on both sides available
- Compatible with standard UT terminal blocks
- Uniform, touch-proof plug-in zone

## Commercial data

Item number	3045020
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE01
Product key	BE1141
GTIN	4017918975364
Weight per piece (including packing)	7.07 g
Weight per piece (excluding packing)	6.715 g
Customs tariff number	85369010
Country of origin	TR

# UT 2,5/1P BU - Feed-through terminal block



3045020

<https://www.phoenixcontact.com/us/products/3045020>

## Technical data

### Notes

General	Current and voltage are determined by the plug used.
---------	--

### Product properties

Product type	Plug-in 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	6 kV
Maximum power dissipation for nominal condition	0.77 W

### Connection data

Number of connections per level	2
Nominal cross section	2.5 mm <sup>2</sup>
Rated cross section AWG	12

### Level 1 above 1 below 1

Connection method	Screw/plug-in connection
Screw thread	M3
Tightening torque	0.5 ... 0.6 Nm
Stripping length	9 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 61984
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Cross section AWG	26 ... 12 (converted acc. to IEC)
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	26 ... 12 (converted acc. to IEC)
Conductor cross-section flexible ultrasound-compressed	0.34 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section, flexible [AWG] ultrasound-compressed	22 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with same cross section, rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with same cross section, flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>

# UT 2,5/1P BU - Feed-through terminal block

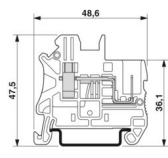


3045020

<https://www.phoenixcontact.com/us/products/3045020>

ferrule with plastic sleeve	
Nominal cross section	2.5 mm <sup>2</sup>
Nominal current	24 A
Maximum load current	24 A (with 4 mm <sup>2</sup> conductor cross-section)
Nominal voltage	500 V

## Dimensions

Dimensional drawing	
Width	5.2 mm
End cover width	2.2 mm
Height	49.1 mm
Depth on NS 35/7,5	47.5 mm
Depth on NS 35/15	55 mm

## 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

## Mechanical properties

### Mechanical data

Open side panel	Yes
-----------------	-----

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-60 °C ... 100 °C (max. operating temperature range including self-heating, see derating curve)
---------------------------------	---

# UT 2,5/1P BU - Feed-through terminal block



3045020

<https://www.phoenixcontact.com/us/products/3045020>

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 61984
----------------------------------	-----------

## Mounting

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

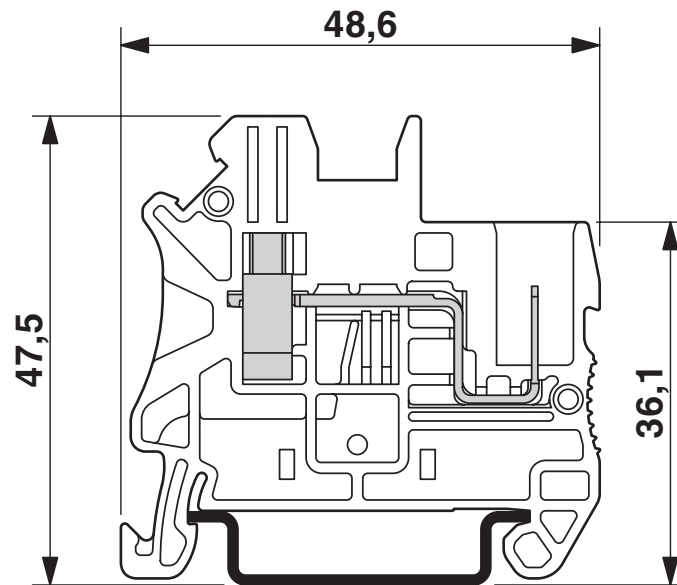
# UT 2,5/1P BU - Feed-through terminal block

3045020

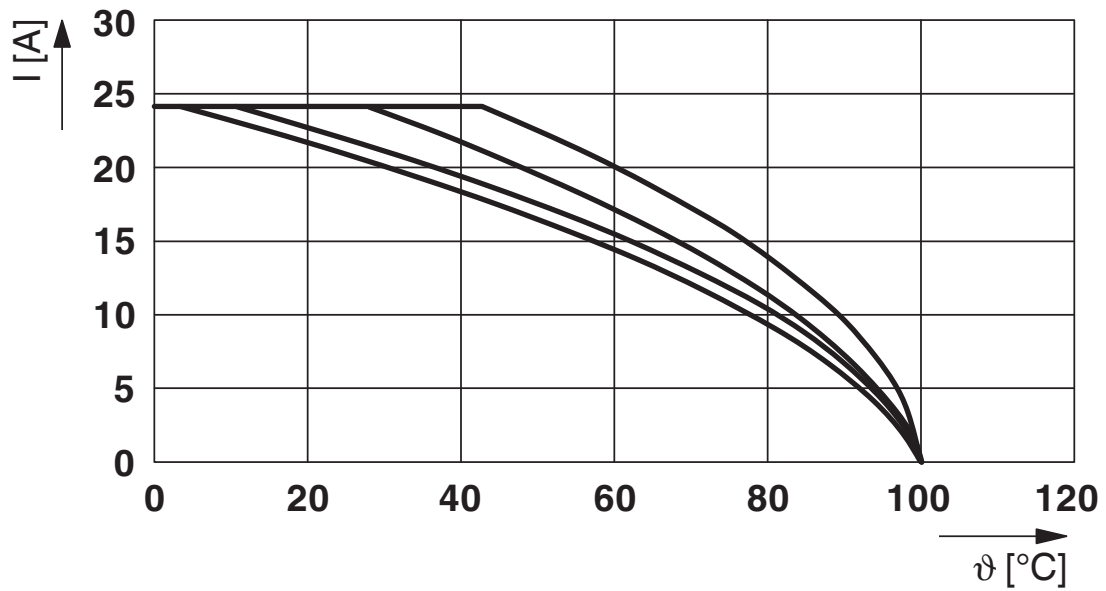
<https://www.phoenixcontact.com/us/products/3045020>

## Drawings

Dimensional drawing



Diagram

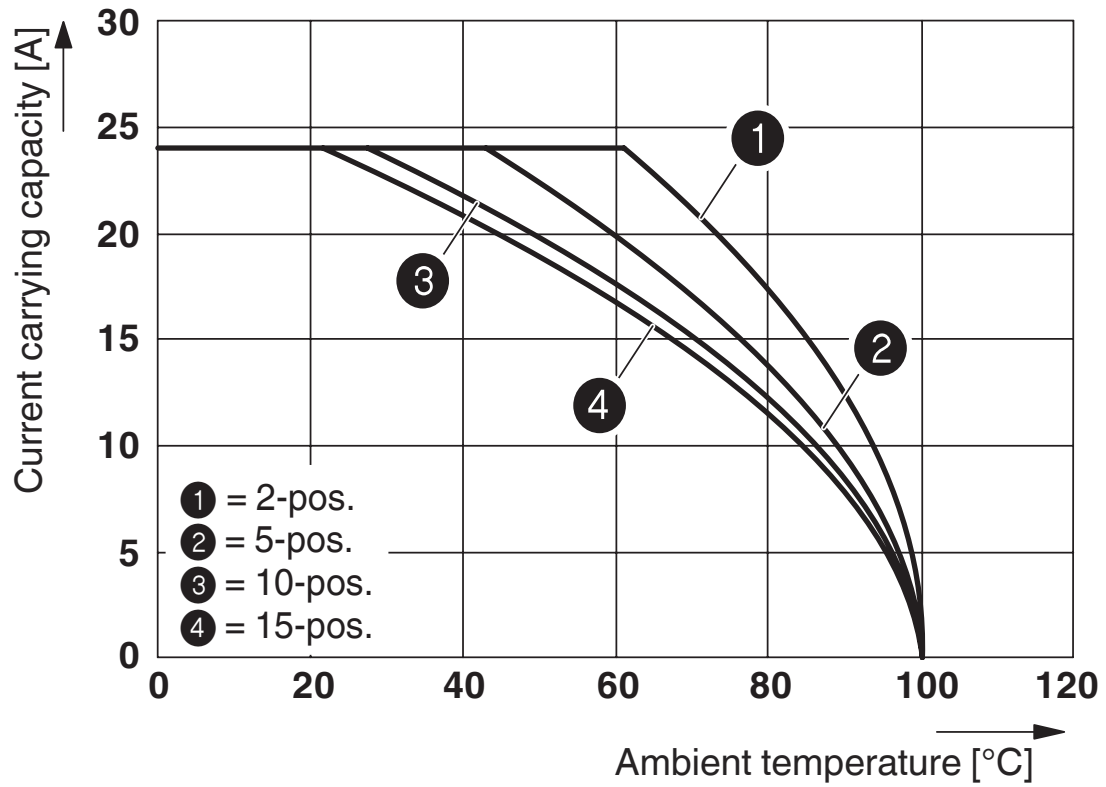


# UT 2,5/1P BU - Feed-through terminal block

3045020

<https://www.phoenixcontact.com/us/products/3045020>

Diagram



The figure shows the derating curve of the UT 2,5/1P... terminal block in connection with the UPBV 2,5 plug

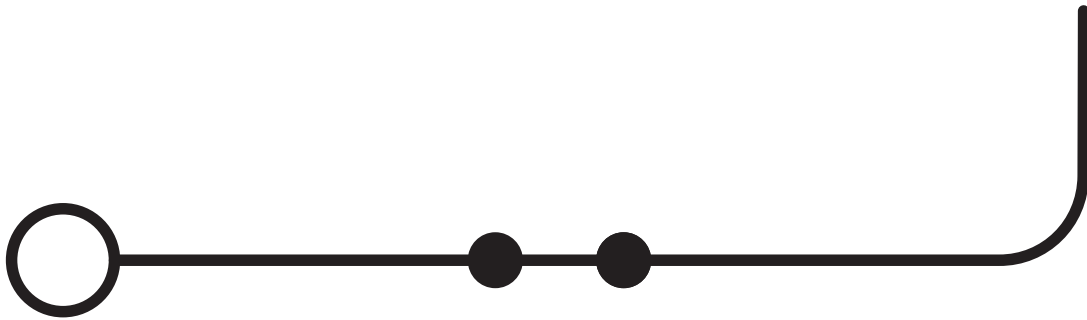
# UT 2,5/1P BU - Feed-through terminal block



3045020

<https://www.phoenixcontact.com/us/products/3045020>

Circuit diagram



# UT 2,5/1P BU - Feed-through terminal block



3045020

<https://www.phoenixcontact.com/us/products/3045020>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3045020>



**EAC**

Approval ID: KZ7500651131219505



**CSA**

Approval ID: 13631

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B				
	300 V	20 A	26 - 12	-
C				
	300 V	20 A	26 - 12	-



**cULus Recognized**

Approval ID: E60425

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B				
	300 V	20 A	26 - 12	-
Multi-conductor connection	300 V	20 A	26 - 16	-
C				
	300 V	20 A	26 - 12	-
Multi-conductor connection	300 V	20 A	26 - 16	-

# UT 2,5/1P BU - Feed-through terminal block



3045020

<https://www.phoenixcontact.com/us/products/3045020>

## Classifications

### ECLASS

ECLASS-13.0	27250117
ECLASS-15.0	27250117

### ETIM

ETIM 10.0	EC000897
-----------	----------

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------

# UT 2,5/1P BU - Feed-through terminal block



3045020

<https://www.phoenixcontact.com/us/products/3045020>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	14134f42-c002-4630-bd47-4483c93b48e4

### EF3.1 Climate Change

CO2e kg	0.043 kg CO2e
---------	---------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)