

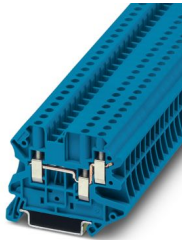
UT 4-TWIN BU - Feed-through terminal block



3044500

<https://www.phoenixcontact.com/us/products/3044500>

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Feed-through terminal block, nom. voltage: 500 V, nominal current: 32 A, number of connections: 3, connection method: Screw connection, Rated cross section: 4 mm², cross section: 0.14 mm² - 6 mm², 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
- Compact wiring of three conductors in a single terminal block

Commercial data

Item number	3044500
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE01
Product key	BE1112
GTIN	4046356055390
Weight per piece (including packing)	13.52 g
Weight per piece (excluding packing)	13.52 g
Customs tariff number	85369010
Country of origin	DE

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Technical data

Notes

General

Note	The max. load current must not be exceeded by the total current of all connected conductors.
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Product properties

Product type	Multi-conductor terminal block
Product family	UT
Area of application	Railway industry
	Machine building
	Plant engineering
	Process industry
Number of connections	3
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	1.02 W

Connection data

Number of connections per level	3
Nominal cross section	4 mm ²
Connection method	Screw connection
Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm
Stripping length	9 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	0.14 mm ² ... 6 mm ²
Cross section AWG	26 ... 10 (converted acc. to IEC)
Conductor cross-section flexible	0.14 mm ² ... 6 mm ²
Conductor cross-section, flexible [AWG]	26 ... 10 (converted acc. to IEC)
Conductor cross-section flexible ultrasound-compressed	0.34 mm ² ... 6 mm ²
Conductor cross-section, flexible [AWG] ultrasound-compressed	22 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm ² ... 4 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm ² ... 4 mm ²
2 conductors with same cross section, rigid	0.14 mm ² ... 1.5 mm ²

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2 conductors with same cross section, flexible	0.14 mm ² ... 1.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² ... 1.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 1 mm ²
Nominal cross section	4 mm ²
Nominal current	32 A
Maximum load current	41 A (In the case of a 6 mm ² conductor cross-section, the maximum load current must not be exceeded by the total current of all connected conductors)
Nominal voltage	500 V

Ex data

Rated data (ATEX/IECEx)

Identification	Ⓜ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	3047141 D-UT 2,5/4-TWIN
	3047109 DS-UT 2,5/4
	3047183 ATP-UT-TWIN
	1212587 SF-SL 0,6X3,5-100 S-VDE
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-6 / 3030336
	Plug-in bridge / FBS 3-6 / 3030242
	Plug-in bridge / FBS 4-6 / 3030255
	Plug-in bridge / FBS 5-6 / 3030349
	Plug-in bridge / FBS 10-6 / 3030271
	Plug-in bridge / FBS 20-6 / 3030365
Bridge data	27 A (4 mm ²)
Ex temperature increase	40 K (32.5 A / 4 mm ²)
for bridging with bridge	352 V
- At bridging between non-adjacent terminal blocks	352 V
- At bridging between non-adjacent terminal blocks via PE terminal block	275 V
- At cut-to-length bridging with cover	220 V
- At cut-to-length bridging with partition plate	275 V
Rated insulation voltage	320 V
output	(Permanent)

Ex level General

Rated voltage	352 V
Rated current	29 A
Maximum load current	35 A
Contact resistance	0.44 mΩ

Ex connection data General

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Torque range	0.6 Nm ... 0.8 Nm
Nominal cross section	4 mm ²
Rated cross section AWG	12
Connection capacity rigid	0.14 mm ² ... 6 mm ²
Connection capacity AWG	26 ... 10
Connection capacity flexible	0.14 mm ² ... 4 mm ²
Connection capacity AWG	26 ... 12
2 conductors with same cross section, solid	0.14 mm ² ... 1.5 mm ²
2 conductors with the same cross-section AWG rigid	26 ... 16
2 conductors with same cross section, stranded	0.14 mm ² ... 1.5 mm ²
2 conductors with the same cross-section AWG flexible	26 ... 16

Dimensions

Width	6.2 mm
End cover width	2.2 mm
Height	57.8 mm
Depth	46.9 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
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	7.3 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
	Test passed

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Short-time withstand current 4 mm ²	0.48 kA
Short-time withstand current 6 mm ²	0.72 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes
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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
Test force setpoint	1 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross-section/weight	0.14 mm ² / 0.2 kg
	4 mm ² / 0.9 kg
	6 mm ² / 1.4 kg
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	EN 50155:2021-07
Spectrum	Long life test category 2, bogie-mounted
Frequency	f ₁ = 5 Hz to f ₂ = 250 Hz
ASD level	6.12 (m/s ²) ² /Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

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Specification	DIN EN 50155 (VDE 0115-200):2008-03
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 (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 35/7,5
	NS 35/15

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Drawings

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3044500>

DNV				
Approval ID: TAE00001S9				

CB IECEE CB Scheme				
Approval ID: DE1-62912				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	500 V	-	-	-

cULus cULus Recognized				
Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	300 V	30 A	26 - 10	-
C				
	300 V	30 A	26 - 10	-

VDE VDE Zeichengenehmigung				
Approval ID: 40040772				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	500 V	32 A	-	0.14 - 6

CSA				
Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	150 V	30 A	26 - 10	-
C				
	150 V	30 A	26 - 10	-

ATEX				
Approval ID: KEMA06ATEX0017U				

cUL cUL Recognized				
Approval ID: E192998				

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	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	150 V	30 A	26 - 10	-
C				
	150 V	30 A	26 - 10	-



EAC Ex

Approval ID: KZ 7500525010101950



IECEX

Approval ID: IECEX KEM 06.0013U



UL Recognized

Approval ID: E192998

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	150 V	30 A	26 - 10	-
C				
	150 V	30 A	26 - 10	-



CCC

Approval ID: 2020322313000622



UKCA-EX

Approval ID: DEKRA 21UKEX0305U

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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
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	16672e3e-a107-42c2-b610-2ee53511e0cf

EF3.1 Climate Change

CO2e kg	0.021 kg CO2e
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