

# PT 6-TWIN BU - Feed-through terminal block

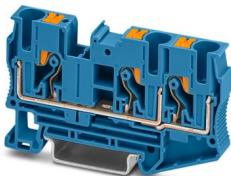
3211485

<https://www.phoenixcontact.com/us/products/3211485>



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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 3, connection method: Push-in connection, Rated cross section: 6 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: blue



## Your advantages

- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- The compact design and front connection enable wiring in a confined space<br/>
- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- Tested for railway applications

## Commercial data

Item number	3211485
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE22
Product key	BE2212
GTIN	4046356495967
Weight per piece (including packing)	20.012 g
Weight per piece (excluding packing)	18.833 g
Customs tariff number	85369010
Country of origin	CN

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## Technical data

### Product properties

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

### Connection data

Number of connections per level	3
Nominal cross section	6 mm <sup>2</sup>
Connection method	Push-in connection
Stripping length	10 mm ... 12 mm
Internal cylindrical gage	A5
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Cross section AWG	20 ... 8 (converted acc. to IEC)
Conductor cross-section flexible	0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	20 ... 8 (converted acc. to IEC)
Conductor cross-section flexible ultrasound-compressed	0.34 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Conductor cross-section, flexible [AWG] ultrasound-compressed	22 ... 8 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> When using TWIN ferrules, we recommend a minimum ferrule length of 13 mm.
Nominal current	41 A
Maximum load current	52 A (with 10 mm <sup>2</sup> conductor cross-section, rigid)
Nominal voltage	1000 V
Nominal cross section	6 mm <sup>2</sup>

### Connection cross sections directly pluggable

Conductor cross-section rigid	1 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Conductor cross-section flexible (ferrule without plastic sleeve)	1 mm <sup>2</sup> ... 6 mm <sup>2</sup>

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Flexible conductor cross-section (ferrule with plastic sleeve)

1 mm<sup>2</sup> ... 6 mm<sup>2</sup>

## Ex data

### Rated data (ATEX/IECEx)

Identification	Ex II 2 GD Ex eb IIC Gb
Operating temperature range (1)	-60 °C ... 85 °C
Operating temperature range (2)	-40 °C ... 110 °C
Ex-certified accessories	3211508 D-PT 6-TWIN 1204520 SZF 2-0,8X4,0 3022276 CLIPFIX 35-5 3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-8 / 3030284 Plug-in bridge / FBS 3-8 / 3030297 Plug-in bridge / FBS 4-8 / 3030307 Plug-in bridge / FBS 5-8 / 3030310 Plug-in bridge / FBS 6-8 / 3032470 Plug-in bridge / FBS 10-8 / 3030323
Bridge data	35 A (6 mm <sup>2</sup> )
Ex temperature increase for bridging with bridge	40 K (35.5 A / 6 mm <sup>2</sup> )
- At bridging between non-adjacent terminal blocks	550 V
- At bridging between non-adjacent terminal blocks via PE terminal block	275 V
- At cut-to-length bridging	275 V
- At cut-to-length bridging with cover	220 V
- At cut-to-length bridging with partition plate	550 V
Rated insulation voltage output	500 V (Permanent)

### Ex level General

Rated voltage	550 V
Rated current	35.5 A
Maximum load current	44.5 A
Contact resistance	0.65 mΩ

### Ex connection data General

Nominal cross section	6 mm <sup>2</sup>
Rated cross section AWG	10
Connection capacity rigid	0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Connection capacity AWG	20 ... 8
Connection capacity flexible	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Connection capacity AWG	20 ... 10

## Dimensions

Width	8.2 mm
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End cover width	2.2 mm
Height	74.2 mm
Depth	42.2 mm
Depth on NS 35/7,5	43.5 mm
Depth on NS 35/15	51 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

## Mechanical properties

Mechanical data	
Open side panel	Yes

## Environmental and real-life conditions

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/3211485>

		CSA		
		Approval ID: 2030668		
		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG
B		600 V	40 A	20 - 8
C		600 V	40 A	20 - 8
D		600 V	5 A	20 - 8

		IECEE CB Scheme		
		Approval ID: DE1-64280		

		EAC		
		Approval ID: RU C-DE.BL08.B.00644		

		cULus Recognized		
		Approval ID: E60425		
		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG
B		600 V	40 A	20 - 8
C		600 V	40 A	20 - 8
F		1000 V	40 A	20 - 8

		LR		
		Approval ID: LR2371832TA		

		NK		
		Approval ID: 22ME0007		

		VDE Zeichengenehmigung		
		Approval ID: 40035239		
		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG
keine				

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Only flexible conductors	1000 V	41 A	-	0.5 - 6
Only rigid conductors	1000 V	41 A	-	0.5 - 10



**PRS**

Approval ID: TE/2107/880590/21

**ABS**

Approval ID: 21-2192245-PDA

**DNV**

Approval ID: TAE000010T



**cUL Recognized**

Approval ID: E192998

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine	550 V	40 A	20 - 8	-



**EAC Ex**

Approval ID: RU C-DE.AB72.B.02351



**IECEx**

Approval ID: IECEx SEV13.0005U



**UL Recognized**

Approval ID: E192998

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine	550 V	40 A	20 - 8	-



**ATEX**

Approval ID: SEV13ATEX0159U



**CCC**

Approval ID: 2020322313000631

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**EAC Ex**

Approval ID: KZ 7500525010101950

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## Classifications

### ECLASS

ECLASS-13.0	27250101
ECLASS-15.0	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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