

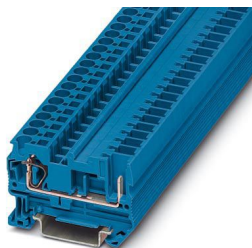
ST 4/ 1P BU - Feed-through terminal block



3042874

<https://www.phoenixcontact.com/us/products/3042874>

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: 800 V, nominal current: 32 A, number of connections: 2, connection method: Spring-cage/plug-in connection, Rated cross section: 4 mm², 1st level connection left, cross section: 0.08 mm² - 6 mm², 1st level connection right, mounting type: NS 35/7,5, NS 35/15, color: blue

Your advantages

- Tested for railway applications
- The plug-in ST-COMBI spring-cage terminal block series combines the system advantages of the ST standard terminal block series with those of the COMBI plug-in system

Commercial data

Item number	3042874
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE02
Product key	BE2141
GTIN	4017918956219
Weight per piece (including packing)	7.83 g
Weight per piece (excluding packing)	7.83 g
Customs tariff number	85369010
Country of origin	PL

ST 4/ 1P BU - Feed-through terminal block



3042874

<https://www.phoenixcontact.com/us/products/3042874>

Technical data

Notes

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

Product properties

Product type	Plug-in terminal block
Area of application	Railway industry
	Machine building
	Plant engineering
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	1.02 W

Connection data

Number of connections per level	2
Nominal cross section	4 mm ²

1st level connection left

Connection method	Spring-cage/plug-in connection
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 61984
Conductor cross-section rigid	0.08 mm ² ... 6 mm ²
Cross section AWG	28 ... 10 (converted acc. to IEC)
Conductor cross-section flexible	0.08 mm ² ... 4 mm ²
Conductor cross-section, flexible [AWG]	28 ... 12 (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)	0.14 mm ² ... 4 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.14 mm ² ... 4 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 1 mm ²
Nominal current	32 A (with 6 mm ² conductor cross-section)
Maximum load current	32 A (with 6 mm ² conductor cross-section)
Nominal voltage	800 V
Nominal cross section	4 mm ²

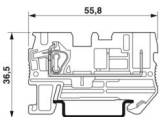
ST 4/ 1P BU - Feed-through terminal block



3042874

<https://www.phoenixcontact.com/us/products/3042874>

Dimensions

Dimensional drawing	
Width	6.2 mm
End cover width	2.2 mm
Height	55.8 mm
Depth on NS 35/7,5	36.5 mm
Depth on NS 35/15	44 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)
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 %

ST 4/ 1P BU - Feed-through terminal block



3042874

<https://www.phoenixcontact.com/us/products/3042874>

Standards and regulations

Connection in acc. with standard	IEC 61984
----------------------------------	-----------

Mounting

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

ST 4/ 1P BU - Feed-through terminal block

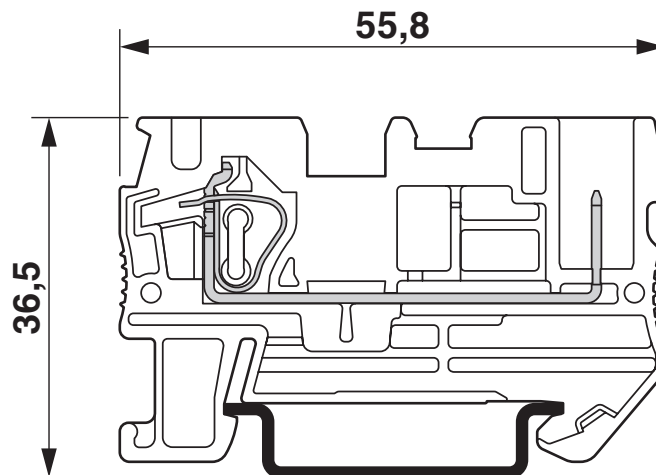
3042874

<https://www.phoenixcontact.com/us/products/3042874>



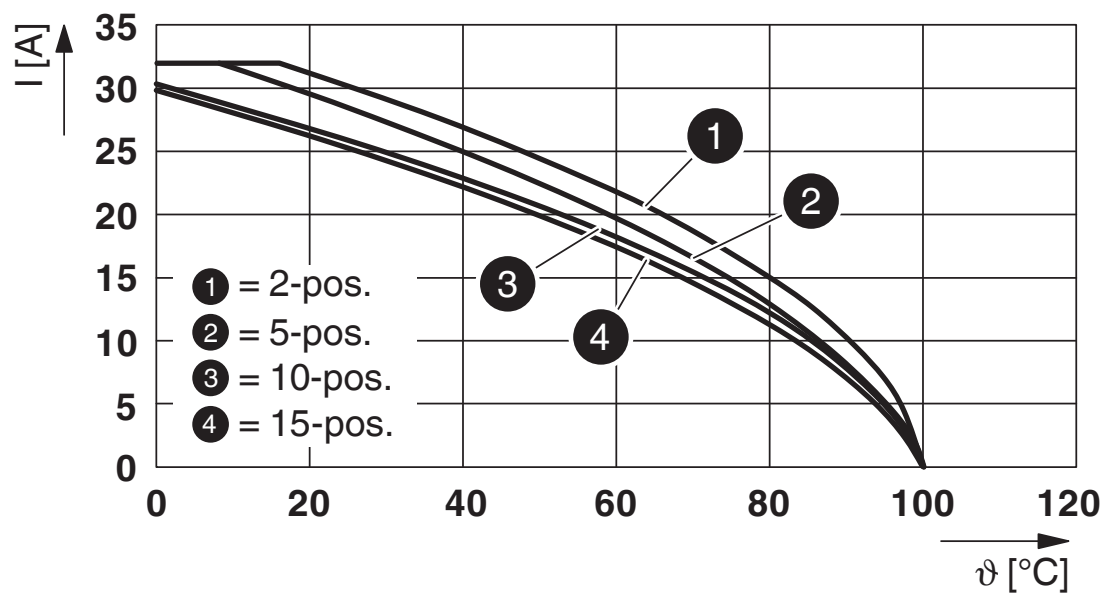
Drawings

Dimensional drawing



The figure shows the terminal with the plug version SP 4/...

Diagram



Derating curve for spring-cage terminals ST 4/1P.. and ST 4/2P.. with all plug versions SP 4/... . The derating curves are determined by multiplying the values of the base curves by the factor 0.8.

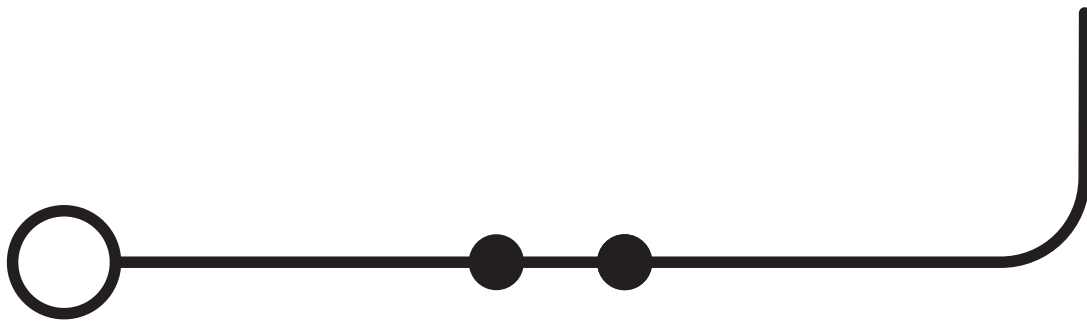
ST 4/ 1P BU - Feed-through terminal block

3042874

<https://www.phoenixcontact.com/us/products/3042874>



Circuit diagram



ST 4/ 1P BU - Feed-through terminal block



3042874

<https://www.phoenixcontact.com/us/products/3042874>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3042874>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	600 V	30 A	28 - 10	-
C				
	600 V	30 A	28 - 10	-

 IECEE CB Scheme Approval ID: DE1-62736/B1/B2				
--	--	--	--	--

 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	Cross section mm^2
B				
	600 V	30 A	28 - 10	-
C				
	600 V	30 A	28 - 10	-

 VDE Zeichengenehmigung Approval ID: 40019518				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Only flexible conductors	800 V	-	-	0.2 - 4
Only rigid conductors	800 V	-	-	0.2 - 6

 EAC Approval ID: KZ7500651131219505				
---	--	--	--	--

ST 4/ 1P BU - Feed-through terminal block



3042874

<https://www.phoenixcontact.com/us/products/3042874>

Classifications

ECLASS

ECLASS-13.0	27250117
ECLASS-15.0	27250117

ETIM

ETIM 9.0	EC000897
----------	----------

UNSPSC

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

ST 4/ 1P BU - Feed-through terminal block



3042874
<https://www.phoenixcontact.com/us/products/3042874>

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
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%
EF3.0 Climate Change	
CO2e kg	0.044 kg CO2e

Phoenix Contact 2025 © - 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