

ST 2,5-QUATTRO/2P BU - Feed-through terminal block



3040669

<https://www.phoenixcontact.com/us/products/3040669>

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: 4, connection method: Spring-cage/plug-in connection, Rated cross section: 2.5 mm², 1st level connection right, cross section: 0.08 mm² - 4 mm², 1st level connection left, 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	3040669
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE02
Product key	BE2141
GTIN	4017918832520
Weight per piece (including packing)	9.368 g
Weight per piece (excluding packing)	9.37 g
Customs tariff number	85369010
Country of origin	DE

ST 2,5-QUATTRO/2P BU - Feed-through terminal block



3040669

<https://www.phoenixcontact.com/us/products/3040669>

Technical data

Notes

General	The max. load current must not be exceeded by the total current of all connected conductors. 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	4
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	4
Nominal cross section	2.5 mm ²

1st level connection right

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 ... 4 mm ²
Cross section AWG	28 ... 12 (converted acc. to IEC)
Conductor cross-section flexible	0.08 mm ² ... 2.5 mm ²
Conductor cross-section, flexible [AWG]	28 ... 14 (converted acc. to IEC)
Conductor cross-section flexible ultrasound-compressed	0.34 mm ² ... 4 mm ²
Conductor cross-section, flexible [AWG] ultrasound-compressed	22 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm ² ... 2.5 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.14 mm ² ... 2.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ²
Nominal current	24 A
Maximum load current	24 A (with 4 mm ² conductor cross-section)

ST 2,5-QUATTRO/2P BU - Feed-through terminal block

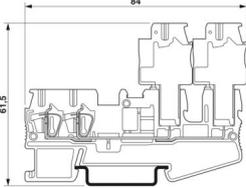


3040669

<https://www.phoenixcontact.com/us/products/3040669>

Nominal voltage	500 V
Nominal cross section	2.5 mm ²

Dimensions

Dimensional drawing	
Width	5.2 mm
End cover width	2.2 mm
Height	81 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))	125 °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)	27,5 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)

ST 2,5-QUATTRO/2P BU - Feed-through terminal block



3040669

<https://www.phoenixcontact.com/us/products/3040669>

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

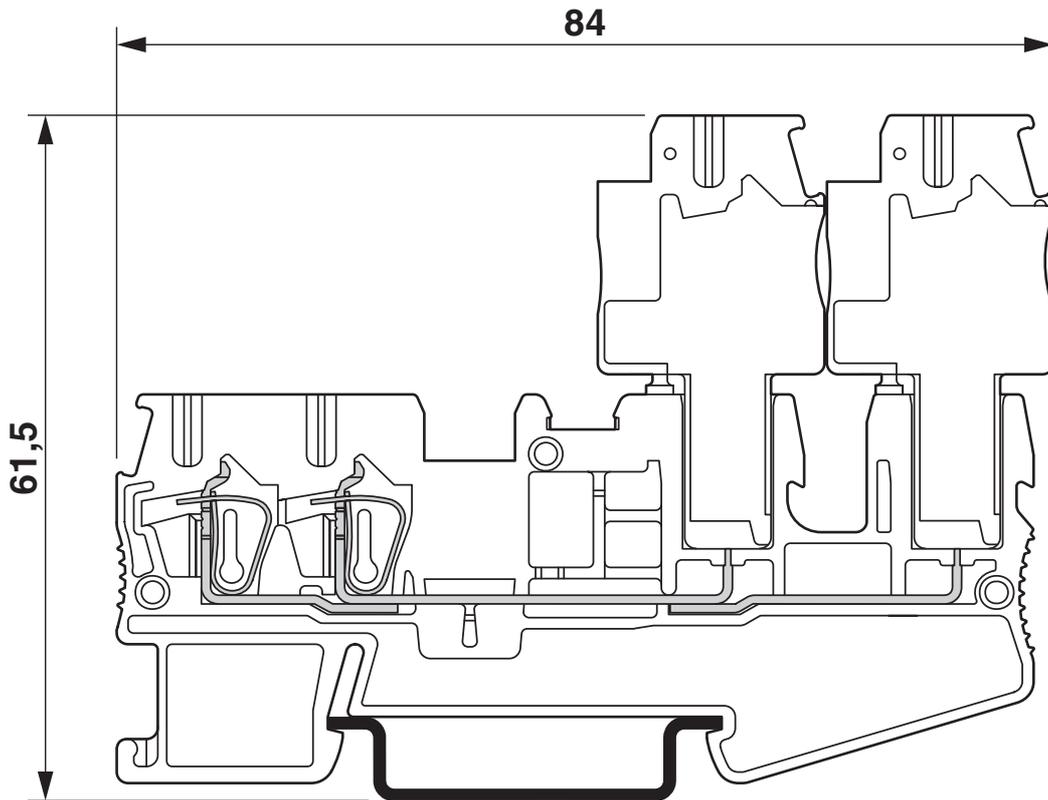
ST 2,5-QUATTRO/2P BU - Feed-through terminal block

3040669

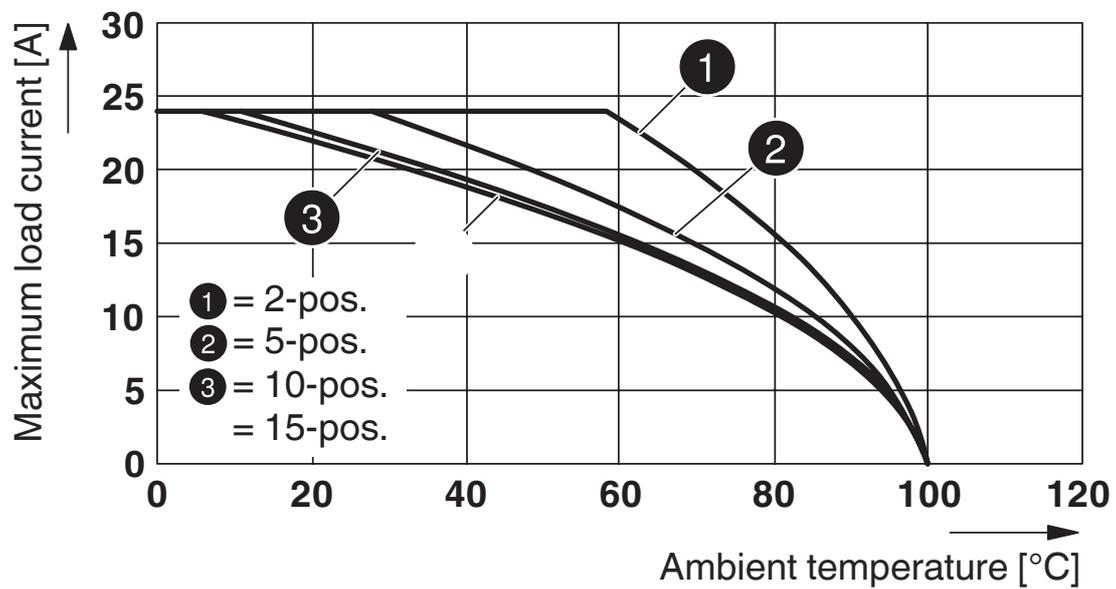
<https://www.phoenixcontact.com/us/products/3040669>

Drawings

Dimensional drawing



Diagram



Applies to all male connector variants SP...

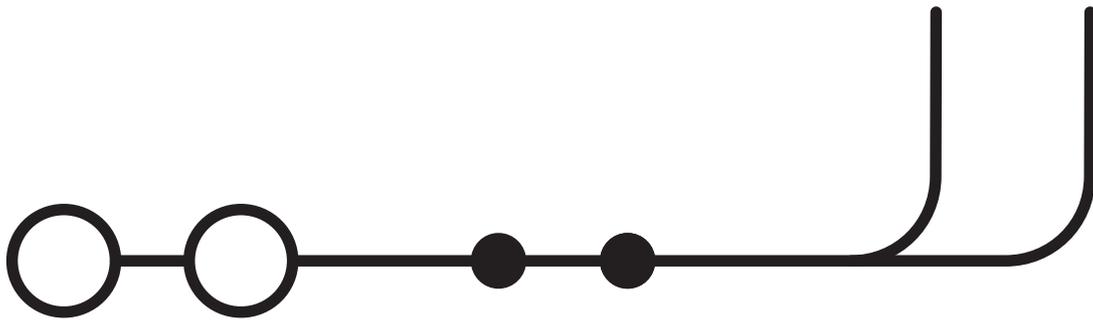
ST 2,5-QUATTRO/2P BU - Feed-through terminal block



3040669

<https://www.phoenixcontact.com/us/products/3040669>

Circuit diagram



ST 2,5-QUATTRO/2P BU - Feed-through terminal block



3040669

<https://www.phoenixcontact.com/us/products/3040669>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3040669>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B	300 V	20 A	28 - 12	-
C	300 V	20 A	28 - 12	-
D	600 V	5 A	28 - 12	-

 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	300 V	20 A	28 - 12	-
C	300 V	20 A	28 - 12	-
D	600 V	5 A	28 - 12	-
F	500 V	20 A	28 - 12	-

 VDE Zeichengenehmigung Approval ID: 40019518				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Only flexible conductors	500 V	-	-	0.2 - 2.5
Only rigid conductors	500 V	-	-	0.2 - 4

ST 2,5-QUATTRO/2P BU - Feed-through terminal block



3040669

<https://www.phoenixcontact.com/us/products/3040669>

DNV

Approval ID: TAE00001CS



EAC

Approval ID: KZ7500651131219505

ST 2,5-QUATTRO/2P BU - Feed-through terminal block



3040669

<https://www.phoenixcontact.com/us/products/3040669>

Classifications

ECLASS

ECLASS-13.0	27250117
ECLASS-15.0	27250117

ETIM

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

UNSPSC

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

ST 2,5-QUATTRO/2P BU - Feed-through terminal block



3040669

<https://www.phoenixcontact.com/us/products/3040669>

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%
-------------------------------------	----------------------------

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