

STTB 2,5/2P BU SO - Double-level terminal block



3040902

<https://www.phoenixcontact.com/us/products/3040902>

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.



Double-level terminal block, Current and voltage are determined by the plug used., nom. voltage: 500 V, nominal current: 22 A, connection method: Spring-cage/plug-in connection, 1st and 2nd level connection left, Rated cross section: 2.5 mm², cross section: 0.08 mm² - 4 mm², 1st and 2nd level connection right, mounting type: NS 35/15, NS 35/7,5, color: blue

Your advantages

- Potential routing on two levels

Commercial data

Item number	3040902
Packing unit	50 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	BE2141
GTIN	4046356306195
Weight per piece (including packing)	10.03 g
Weight per piece (excluding packing)	10.03 g
Country of origin	PL

STTB 2,5/2P BU SO - Double-level terminal block



3040902

<https://www.phoenixcontact.com/us/products/3040902>

Technical data

Notes

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

Product properties

Product type	Plug-in terminal block
Number of connections	4
Number of rows	2
Potentials	2

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 ²

1st and 2nd 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 ... 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 (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 cross section	2.5 mm ²
Nominal current	22 A
Maximum load current	22 A (with 4 mm ² conductor cross-section)
Nominal voltage	500 V

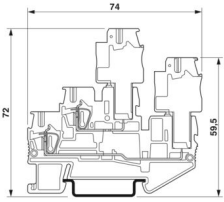
Dimensions

STTB 2,5/2P BU SO - Double-level terminal block



3040902

<https://www.phoenixcontact.com/us/products/3040902>

Dimensional drawing	
Width	5.2 mm
End cover width	2.2 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

Electrical tests

Surge voltage test

Test voltage setpoint	7.3 kV
Result	Test passed
Short-time withstand current 2.5 mm ²	0.3 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
-----------------	-----

Mechanical tests

STTB 2,5/2P BU SO - Double-level terminal block



3040902

<https://www.phoenixcontact.com/us/products/3040902>

Attachment on the carrier

DIN rail/fixing support	NS 35
Test force setpoint	1 N
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Long life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	$0.964 \text{ (m/s}^2\text{)/Hz}$
Acceleration	0.58g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 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 (max. operating temperature 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 (storage/transport)	30 % ... 70 %

Standards and regulations

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

Mounting

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

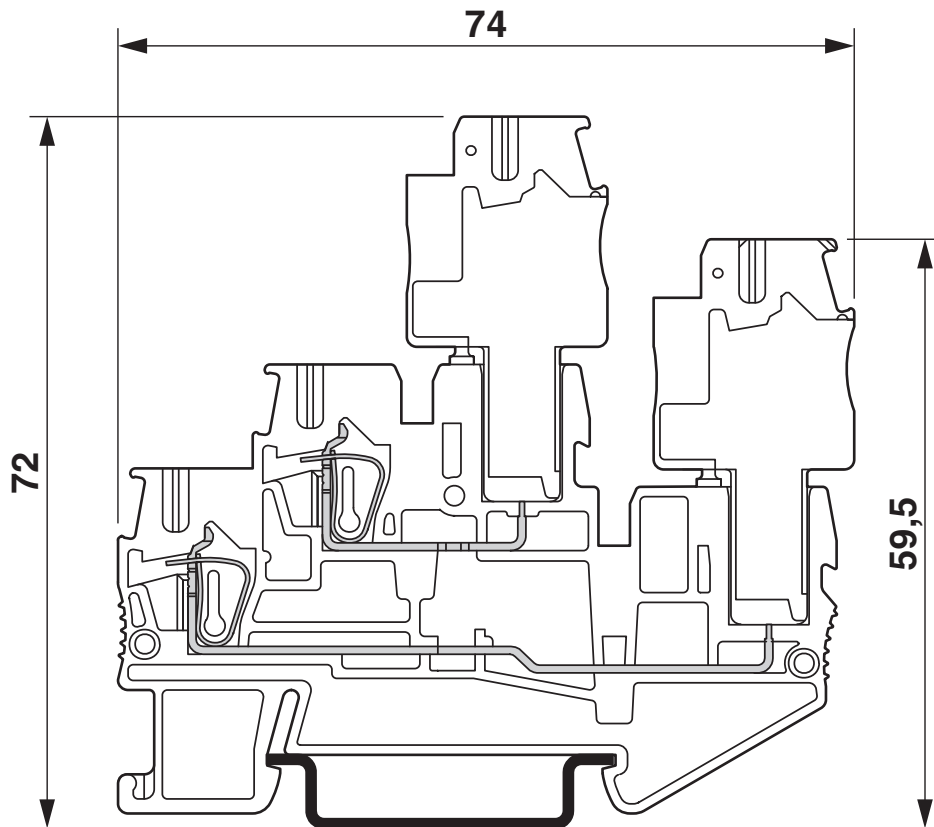
STTB 2,5/2P BU SO - Double-level terminal block

3040902

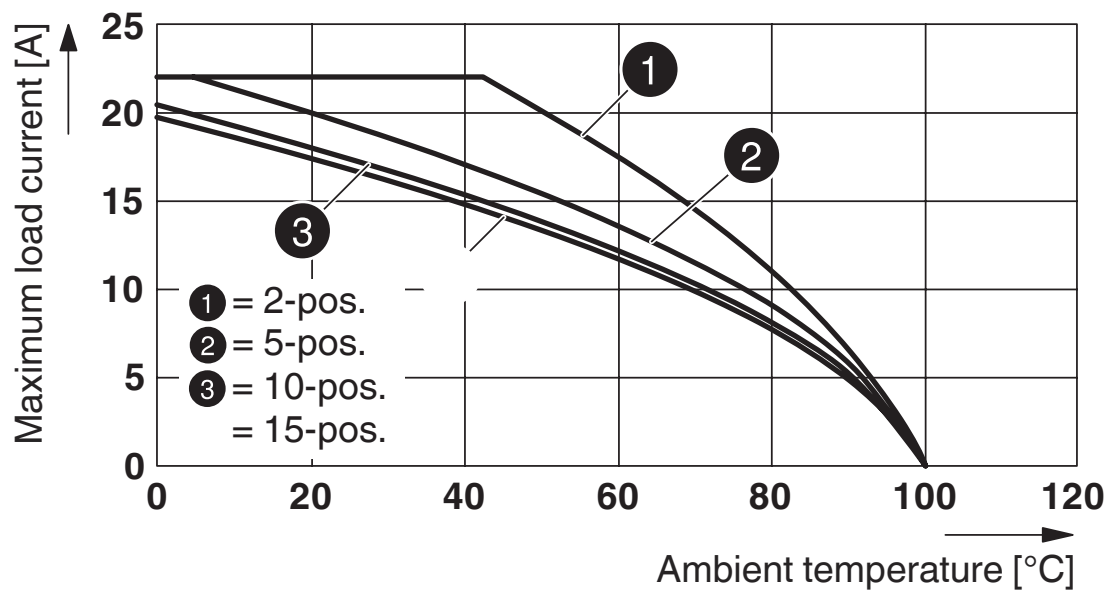
<https://www.phoenixcontact.com/us/products/3040902>

Drawings

Dimensional drawing



Diagram



Applies to all male connector variants SP...

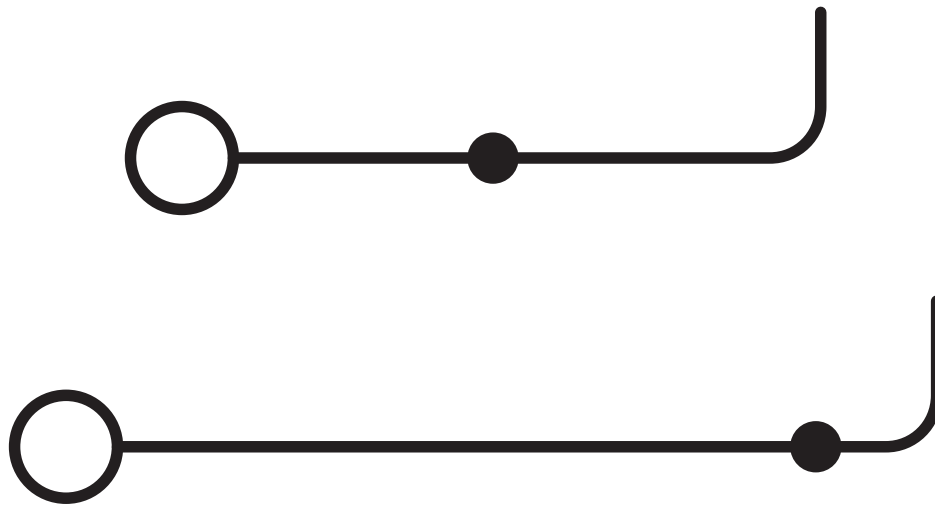
STTB 2,5/2P BU SO - Double-level terminal block



3040902

<https://www.phoenixcontact.com/us/products/3040902>

Circuit diagram



STTB 2,5/2P BU SO - Double-level terminal block



3040902

<https://www.phoenixcontact.com/us/products/3040902>

Classifications

UNSPSC

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

STTB 2,5/2P BU SO - Double-level terminal block



3040902

<https://www.phoenixcontact.com/us/products/3040902>

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 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