

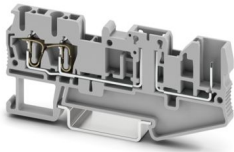
# ST 2,5-TWIN-TG/1P - Disconnect terminal block



3040847

<https://www.phoenixcontact.com/us/products/3040847>

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.



Disconnect terminal block, 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., nom. voltage: 400 V, nominal current: 20 A, 1st level connection left, connection method: Spring-cage/plug-in connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.08 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- Tested for railway applications
- Design width of just 5.2 mm

## Commercial data

Item number	3040847
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE02
Product key	BE2143
GTIN	4017918907327
Weight per piece (including packing)	9.66 g
Weight per piece (excluding packing)	9.66 g
Customs tariff number	85369010
Country of origin	PL

# ST 2,5-TWIN-TG/1P - Disconnect terminal block



3040847

<https://www.phoenixcontact.com/us/products/3040847>

## Technical data

### Notes

#### General

Note	
	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
	With a free-hanging connection, an insulating foil has to be placed between the plug connection and electrically conductive surfaces.

### Product properties

Product type	Disconnect 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	0.77 W

### Connection data

Number of connections per level	3
Nominal cross section	2.5 mm <sup>2</sup>

#### 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 <sup>2</sup> ... 4 mm <sup>2</sup>
Cross section AWG	28 ... 12 (converted acc. to IEC)
Conductor cross-section flexible	0.08 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	28 ... 14 (converted acc. to IEC)
Conductor cross-section flexible ultrasound-compressed	0.34 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section, flexible [AWG] ultrasound-compressed	22 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>

# ST 2,5-TWIN-TG/1P - Disconnect terminal block

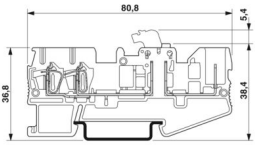


3040847

<https://www.phoenixcontact.com/us/products/3040847>

2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup>
Nominal cross section	2.5 mm <sup>2</sup>
Nominal current	20 A
Maximum load current	20 A (with 4 mm <sup>2</sup> conductor cross-section)
Nominal voltage	400 V (voltage is determined by the plug used)

## Dimensions

Dimensional drawing	
Width	5.2 mm
End cover width	2.2 mm
Height	81 mm
Depth	35.3 mm
Depth on NS 35/7,5	36.5 mm
Depth on NS 35/15	44 mm

## Material specifications

Color	gray (RAL 7042)
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
Short-time withstand current 0.5 mm <sup>2</sup>	0.06 kA
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
-----------------------	---------

# ST 2,5-TWIN-TG/1P - Disconnect terminal block



3040847

<https://www.phoenixcontact.com/us/products/3040847>

Result	Test passed
--------	-------------

## Mechanical properties

### Mechanical data

Open side panel	Yes
-----------------	-----

## Mechanical tests

### Attachment on the carrier

DIN rail/fixing support	NS 35
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 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	$0.964 \text{ (m/s}^2\text{)}^2\text{/Hz}$
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 (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

## Standards and regulations

# ST 2,5-TWIN-TG/1P - Disconnect terminal block



3040847

<https://www.phoenixcontact.com/us/products/3040847>

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

## Mounting

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

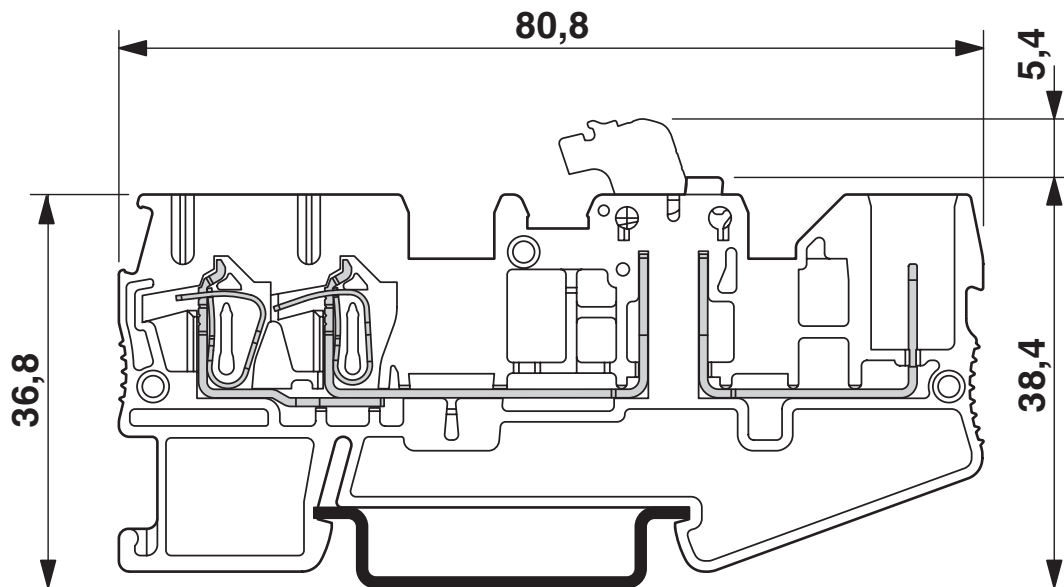
# ST 2,5-TWIN-TG/1P - Disconnect terminal block

3040847

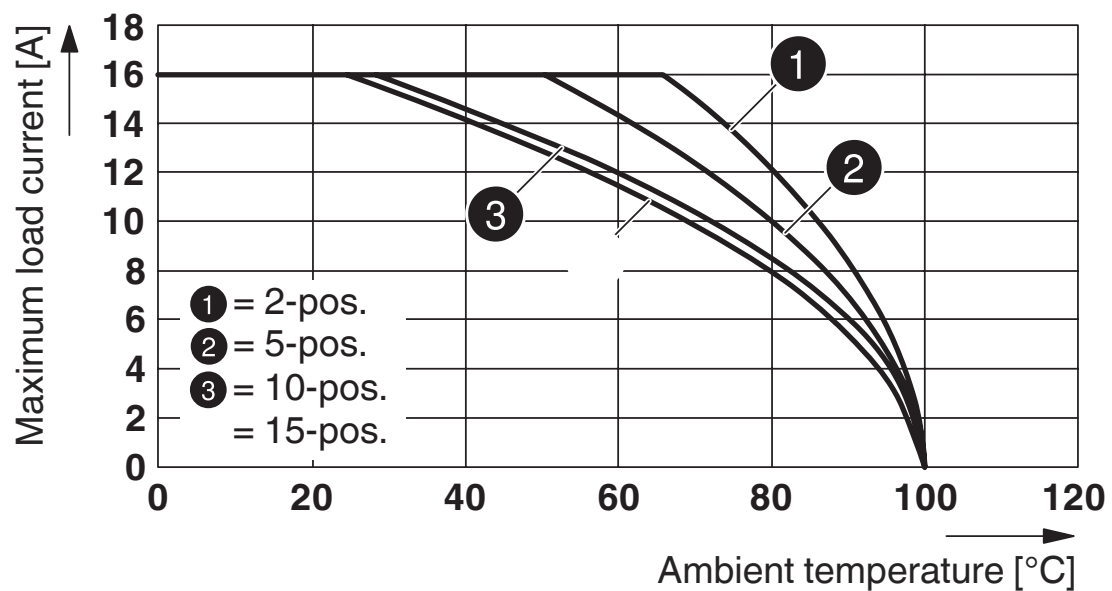
<https://www.phoenixcontact.com/us/products/3040847>

## Drawings

Dimensional drawing



Diagram



Applies to all male connector variants SP...

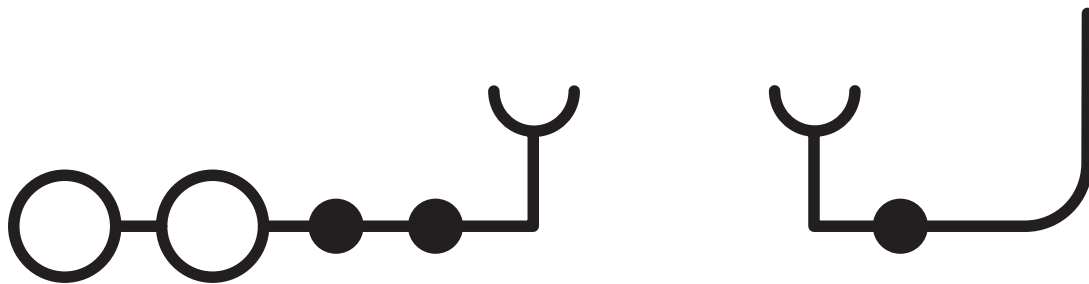
# ST 2,5-TWIN-TG/1P - Disconnect terminal block



3040847

<https://www.phoenixcontact.com/us/products/3040847>

Circuit diagram



# ST 2,5-TWIN-TG/1P - Disconnect terminal block




3040847


<https://www.phoenixcontact.com/us/products/3040847>

## Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3040847>

 <b>CSA</b> Approval ID: 13631				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B	300 V	20 A	28 - 12	-
D	300 V	10 A	28 - 12	-

 <b>EAC</b> Approval ID: RU C-DE.BL08.B.00644				
---	--	--	--	--

 <b>cULus Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B	300 V	16 A	28 - 12	-
C	300 V	16 A	28 - 12	-
D	600 V	5 A	28 - 12	-

<b>DNV</b> Approval ID: TAE00001CS				
---------------------------------------	--	--	--	--

 <b>EAC</b> Approval ID: KZ7500651131219505				
---	--	--	--	--

# ST 2,5-TWIN-TG/1P - Disconnect terminal block



3040847

<https://www.phoenixcontact.com/us/products/3040847>

## Classifications

### ECLASS

ECLASS-13.0	27250108
ECLASS-15.0	27250108

### ETIM

ETIM 10.0	EC000902
-----------	----------

### UNSPSC

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

# ST 2,5-TWIN-TG/1P - Disconnect terminal block



3040847

<https://www.phoenixcontact.com/us/products/3040847>

## 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%
-------------------------------------	----------------------------

### EF3.1 Climate Change

CO2e kg	0.046 kg CO2e
---------	---------------

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](mailto:info@phoenixcon.com)