

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



3042719

<https://www.phoenixcontact.com/us/products/3042719>

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 mm<sup>2</sup>, 1st level connection left, cross section: 0.08 mm<sup>2</sup> - 6 mm<sup>2</sup>, 1st level connection right, mounting type: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- 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
- Tested for railway applications

## Commercial data

Item number	3042719
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE02
Product key	BE2141
GTIN	4017918956035
Weight per piece (including packing)	7.925 g
Weight per piece (excluding packing)	7.898 g
Customs tariff number	85369010
Country of origin	PL

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



3042719

<https://www.phoenixcontact.com/us/products/3042719>

## Technical data

### Product properties

Product type	Plug-in terminal block
Product family	ST
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 <sup>2</sup>

#### 1st level connection left

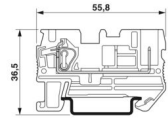
Connection method	Spring-cage/plug-in connection
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 61984
Conductor cross-section rigid	0.08 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Cross section AWG	28 ... 10 (converted acc. to IEC)
Conductor cross-section flexible	0.08 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	28 ... 12 (converted acc. to IEC)
Conductor cross-section flexible ultrasound-compressed	0.34 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross-section, flexible [AWG] ultrasound-compressed	22 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup>
Nominal cross section	4 mm <sup>2</sup>
Nominal current	32 A
Maximum load current	32 A (with 6 mm <sup>2</sup> conductor cross-section)
Nominal voltage	800 V

### Dimensions

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

3042719

<https://www.phoenixcontact.com/us/products/3042719>

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	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
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 %

## Standards and regulations

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



3042719

<https://www.phoenixcontact.com/us/products/3042719>

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

## Mounting

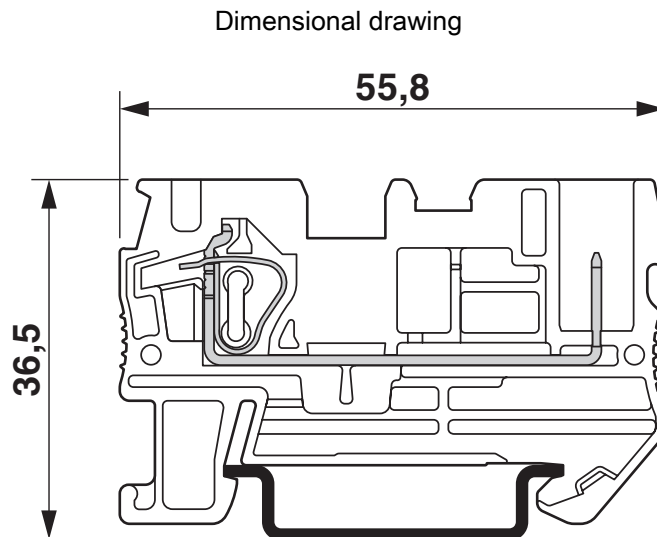
Mounting type	NS 35/7,5
	NS 35/15

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

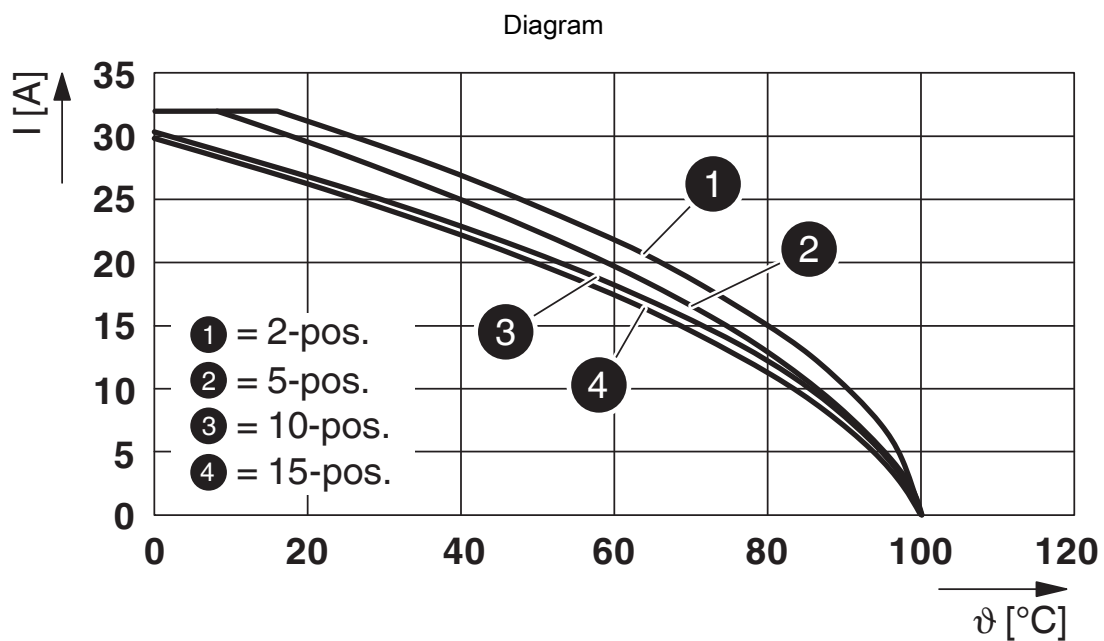
3042719

<https://www.phoenixcontact.com/us/products/3042719>

## Drawings



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



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.

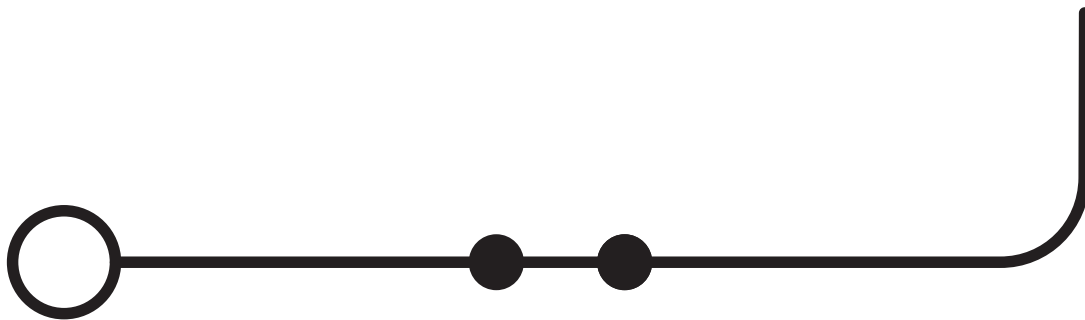
# ST 4/ 1P - Feed-through terminal block



3042719

<https://www.phoenixcontact.com/us/products/3042719>

Circuit diagram



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





3042719


<https://www.phoenixcontact.com/us/products/3042719>


## Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3042719>


 <b>CSA</b> Approval ID: 13631				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B	600 V	30 A	28 - 10	-
C	600 V	30 A	28 - 10	-

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

 <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	600 V	30 A	28 - 10	-
C	600 V	30 A	28 - 10	-

 <b>VDE Zeichengenehmigung</b> Approval ID: 40019518				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
Only flexible conductors	800 V	-	-	0.2 - 4
Only rigid conductors	800 V	-	-	0.2 - 6

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

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



3042719

<https://www.phoenixcontact.com/us/products/3042719>

## Classifications

### ECLASS

ECLASS-13.0	27250117
ECLASS-15.0	27250117

### ETIM

ETIM 10.0	EC000897
-----------	----------

### UNSPSC

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

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



3042719

<https://www.phoenixcontact.com/us/products/3042719>

## 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	0.042 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)