

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

3042719

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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

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## Technical data

### Notes

General	Current and voltage are determined by the plug used.
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### 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 current	32 A
Maximum load current	32 A (with 6 mm <sup>2</sup> conductor cross-section)
Nominal voltage	800 V

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Nominal cross section

4 mm<sup>2</sup>

## 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	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 %

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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

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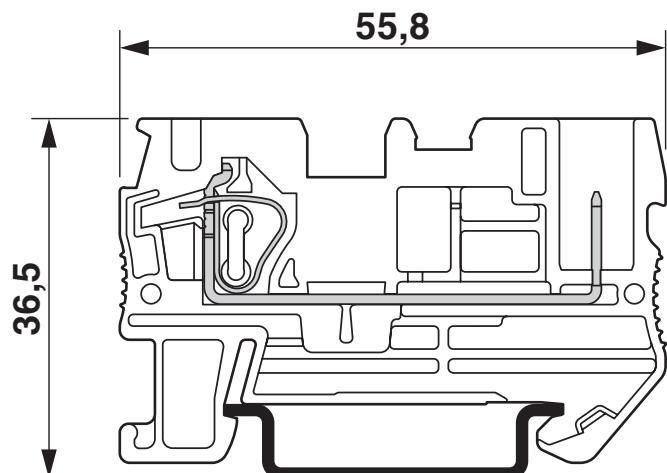


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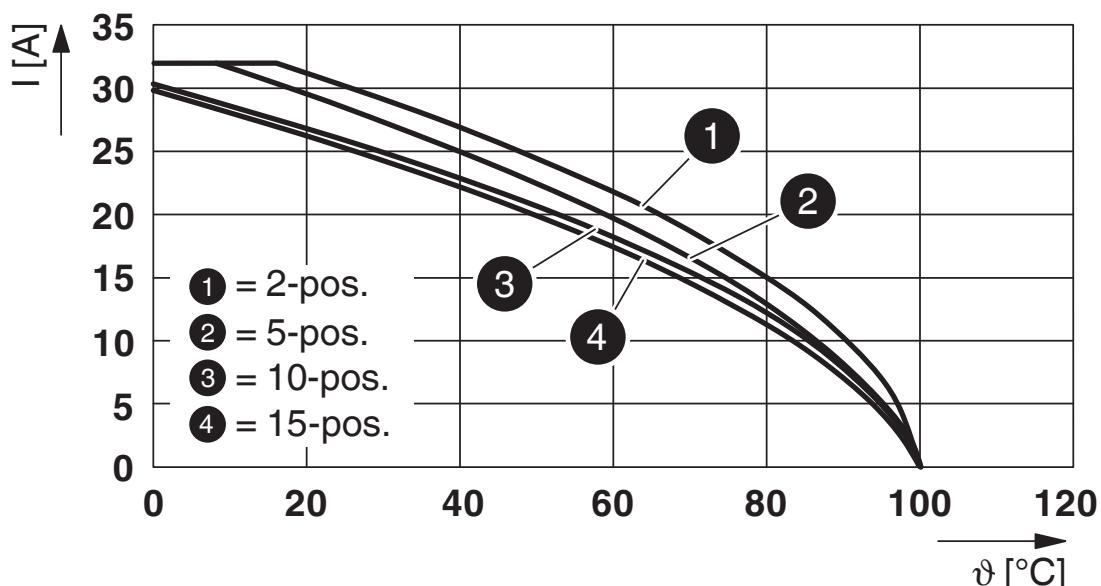
## Drawings

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.

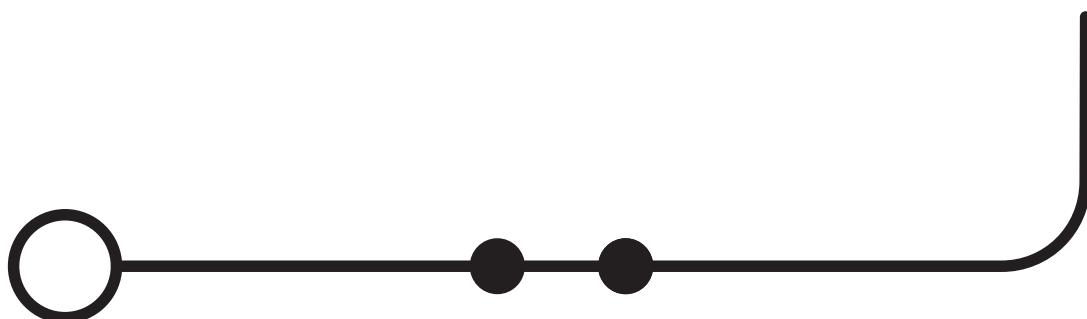
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Circuit diagram



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



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## Approvals

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

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

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

ER	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
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
keine				
Only flexible conductors	800 V	-	-	0.2 - 4
Only rigid conductors	800 V	-	-	0.2 - 6

ER	EAC
	Approval ID: KZ7500651131219505

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## Classifications

### ECLASS

ECLASS-13.0	27250117
ECLASS-15.0	27250117

### ETIM

ETIM 9.0	EC000897
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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%
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