

ST 4/ 1P - Feed-through terminal block

3042719

<https://www.phoenixcontact.com/us/products/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, 1st level connection left, Rated cross section: 4 mm², cross section: 0.08 mm² - 6 mm², 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
Catalog page	Page 339 (C-1-2019)
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	
Overshoot 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 ²

1st level connection left	
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 ... 6 mm ²
Cross section AWG	28 ... 10 (converted acc. to IEC)
Conductor cross section flexible	0.08 mm ² ... 4 mm ²
Conductor cross section, flexible [AWG]	28 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm ² ... 4 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm ² ... 4 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 1 mm ²
Nominal current	32 A
Maximum load current	32 A (with 6 mm ² conductor cross section)
Nominal voltage	800 V
Nominal cross section	4 mm ²

Dimensions

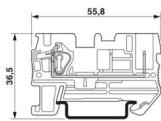
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Dimensional drawing



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
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Environmental and real-life conditions

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

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Connection in acc. with standard

IEC 61984

Mounting

Mounting type

NS 35/7,5

NS 35/15

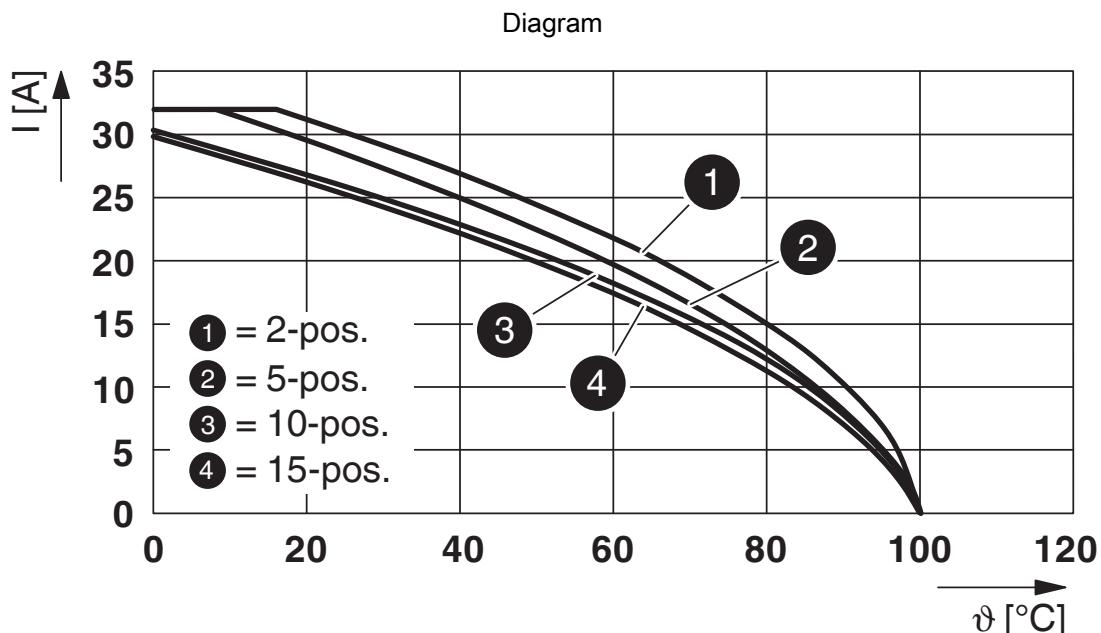
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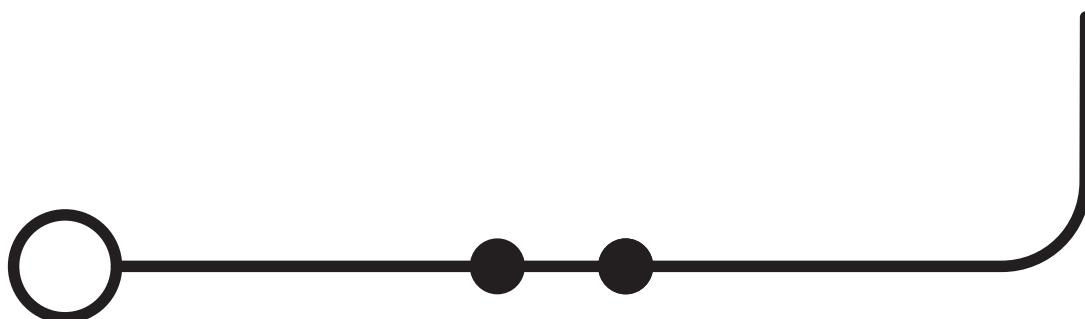
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Drawings



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.

Circuit diagram



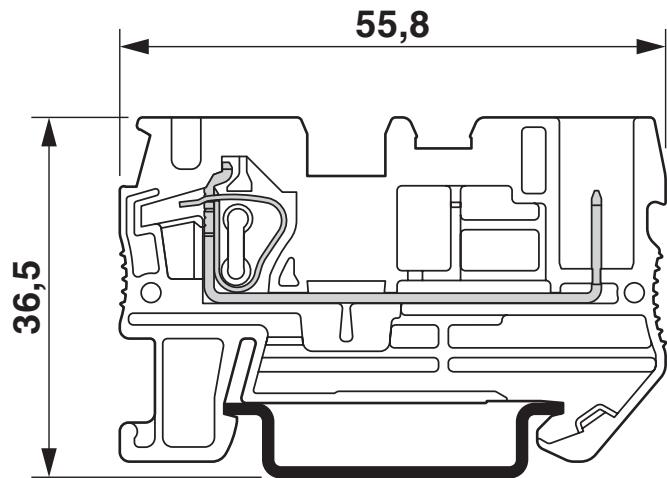
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Dimensional drawing



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

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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
Use group B		600 V	30 A	28 - 10
Use group C		600 V	30 A	28 - 10

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
Use group B		600 V	30 A	28 - 10
Use group C		600 V	30 A	28 - 10

VDE Zeichengenehmigung				
Approval ID: 40019518				
		Nominal voltage U_N	Nominal current I_N	Cross section AWG
Only flexible conductors		800 V	-	-
Only rigid conductors		800 V	-	0.2 - 6

EAC	
Approval ID: EACKZ 08593	

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Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	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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