

Ground terminal block - ST 2,5-TWIN/ 1P-PE - 3042120

<https://www.phoenixcontact.com/in/products/3042120>

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Spring cage ground terminal block, connection method: Spring-cage/plug-in connection, number of connections: 3, cross section: 0.08 mm² - 4 mm², AWG: 28 - 12, width: 5.2 mm, color: green-yellow, mounting type: NS 35/7,5, NS 35/15

Your advantages

- Same shape and pitch as the basic terminal blocks
- Tested for railway applications

Ground terminal block - ST 2,5-TWIN/ 1P-PE - 3042120



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Commercial Data

Order Key	3042120
Packing unit	50 pc
Minimum order quantity	1 pc
Sales Key	BE2
Catalog Page	Page 309 (C-1-2019)
GTIN	4017918927172
Weight per Piece (including packing)	10.5 GRM
Weight per Piece (excluding packing)	10.4 GRM
Customs tariff number	85369010

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Technical Data

Environmental and real-life conditions

Ambient temperature (operation)	-60 °C ... 105 °C (max. short-term operating temperature 130°C)
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 %

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Service 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	0.58 g
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

Notes

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
China RoHS	No hazardous substances above threshold values

Electrical properties

Rated surge voltage	6 kV
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Mechanical properties

Mechanical data

Open side panel	Yes
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Dimensions

Width	5.2 mm
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End cover width	2.2 mm
Height NS 35/15	44 mm
Height NS 35/7,5	36.5 mm
Length	60.5 mm

Material specifications

Color	green-yellow
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))	125 °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)	27,5 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

Mounting

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

Connection data

Service Entrance	No
PEN function	No
Grounding foot	Yes
Number of connections per level	3
Nominal cross section	2.5 mm ²

1st level connection right

Designation	Level 1 above 1+2
Connection labeling	1st level connection right

1st level connection left

Designation	Level 1 below 1
Connection labeling	1st level connection left
Note	Please observe the current carrying capacity of the DIN rails.
Stripping length	8 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 61984

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Conductor cross section solid	0.08 mm ² ... 4 mm ²
Cross section AWG	28 ... 12
Conductor cross section flexible	0.08 mm ² ... 2.5 mm ²
Conductor cross section, flexible [AWG]	28 ... 14
Flexible conductor cross section flexible (ferrule, w/o 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

Standards and regulations

Connection in acc. with standard	IEC 61984
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Product properties

Area of application	Railway industry
Area of application	Machine building
Area of application	Plant engineering
Number of connections	3
Number of levels	1

Insulation characteristics

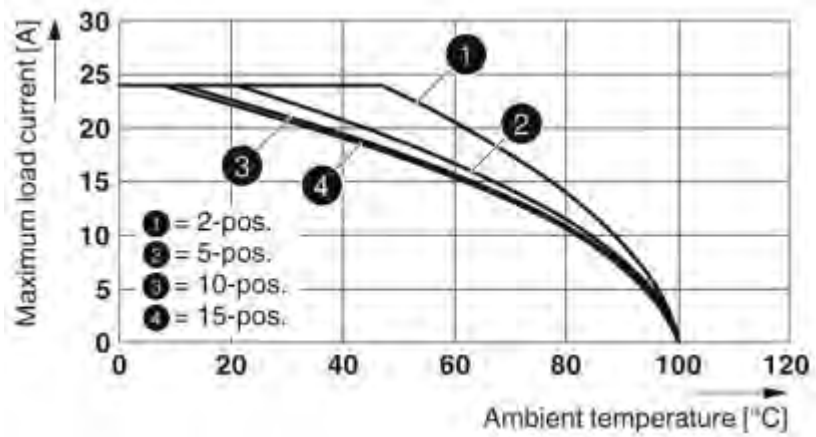
Overvoltage category	III
Degree of pollution	3

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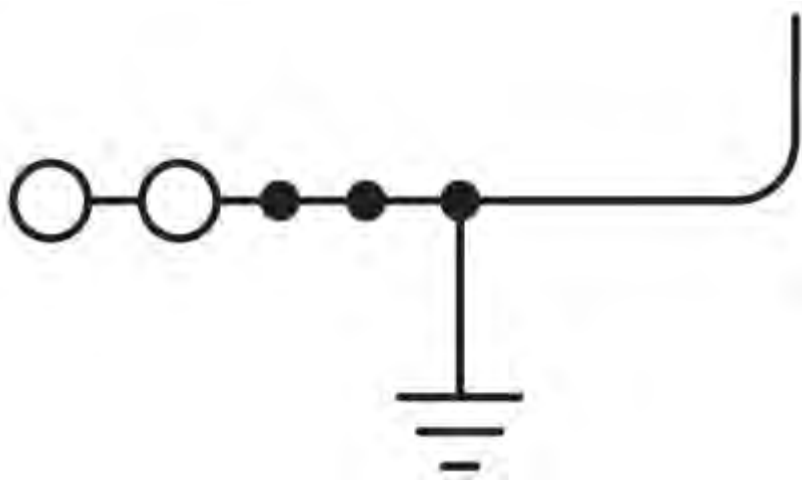
Drawings

Diagram



Applies to all male connector variants SP...

Circuit diagram



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Approvals

DNV GL

CSA

BV

LR

UL Recognized

AWG/kcmil	
Min. cross section	28 mm ²
Max. cross section	12 mm ²

cUL Recognized

AWG/kcmil	
Min. cross section	28 mm ²
Max. cross section	12 mm ²

IECEE CB Scheme

EAC

RS

EAC

VDE Zeichengenehmigung

AWG/kcmil	
Min. cross section	0.2 mm ²
Max. cross section	2.5 mm ²

CSA

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Usegroup	B	B1	C	C1	D	D1
AWG/kcmil	28 mm ²	28 mm ²	28 mm ²	28 mm ²	28 mm ²	28 mm ²
Min. cross section	12 mm ²	12 mm ²	12 mm ²	12 mm ²	12 mm ²	12 mm ²
Max. cross section						

cULus Recognized

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Accessories

Partition plate

Partition plate - ATP-ST-TWIN - 3030789

Partition plate, length: 75.2 mm, width: 2 mm, height: 39 mm, color: gray



Partition plate

Partition plate - DP PS-5 - 3036725

Spacer plate, length: 22.4 mm, width: 5.2 mm, height: 29 mm, number of positions: 1, color: red



DIN rail

DIN rail - NS 35/ 7,5 AL UNPERF 2000MM - 0801704

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DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

DIN rail

DIN rail - NS 35/ 7,5 CAP - 1206560

DIN rail end piece, for DIN rail NS 35/7.5



DIN rail

DIN rail - NS 35/ 7,5 CU UNPERF 2000MM - 0801762



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

DIN rail

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DIN rail - NS 35/ 7,5 PERF 2000MM - 0801733



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail

DIN rail - NS 35/ 7,5 UNPERF 2000MM - 0801681



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail

DIN rail - NS 35/ 7,5 WH PERF 2000MM - 1204119



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

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DIN rail

DIN rail - NS 35/ 7,5 WH UNPERF 2000MM - 1204122



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail

DIN rail - NS 35/ 7,5 ZN PERF 2000MM - 1206421



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail

DIN rail - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

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Flange

Flange - ST 2,5-TWIN/1P-F - 3209840



Screw flange, for screwing COMBI plugs, with the same structure and pitch as the relevant COMBI terminal blocks

Flange

Flange - ST 2,5-TWIN/1P-FS - 3061389



Latching flange, width: 5.2 mm, height: 35.3 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

Filler plug

Filler plug - CEC 2,5 - 3062757



Cover for conductor shaft, 10-pos., for spring cage terminal blocks (ST) and terminal blocks with push-in technology (PT) with a width of 5.2 mm

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Documentation

Documentation - ST-IL - 3039900

Operating decal for the ST terminal block



Labeled terminal marker

Labeled terminal marker - WST 2,5 - 3030941

Warning cover, 5-pos., for terminal width: 5.2 mm



Labeled terminal marker

Labeled terminal marker - ZB 5,LGS:L1-N,PE - 1050415

Zack marker strip, Strip, white, labeled, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snap into tall marker groove, for terminal block width: 5.2 mm, lettering field size: 5.15 x 10.5 mm, Number of individual labels: 10



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Terminal marking

Terminal marking - UC-TM 5 - 0818108



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 5.2 mm, lettering field size: 10.5 x 4.6 mm, Number of individual labels: 96

Terminal marking

Terminal marking - UC-TMF 5 - 0818153



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 5.2 mm, lettering field size: 4.6 x 5.1 mm, Number of individual labels: 96

Terminal marking

Terminal marking - UCT-TM 5 - 0828734



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snap into tall marker groove, for terminal block width: 5.2 mm, lettering field size: 4.6 x 10.5 mm, Number of individual labels: 72

Ground terminal block - ST 2,5-TWIN/ 1P-PE - 3042120

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Terminal marking

Terminal marking - UCT-TMF 5 - 0828744



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snap into flat marker groove, for terminal block width: 5.2 mm, lettering field size: 4.4 x 4.7 mm, Number of individual labels: 72

Terminal marking

Terminal marking - ZB 5 :UNBEDRUCKT - 1050004



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 5.2 mm, lettering field size: 5.1 x 10.5 mm, Number of individual labels: 10

Terminal marking

Terminal marking - ZBF 5:UNBEDRUCKT - 0808642



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.1 x 5.2 mm, Number of individual labels: 10

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Coding element

Coding element - PC - 3040588



Coding star, length: 3 mm, width: 3 mm, height: 6 mm, color: red

Test plug terminal block

Test plug terminal block - MPS-MT - 0201744



Test plugs, with solder connection up to 1 mm² conductor cross section, color: gray

Test plug terminal block

Test plug terminal block - PS-5 - 3030983



Test plugs, Modular test plug, color: red

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Test plug terminal block

Test plug terminal block - PS-5/2,3MM RD - 3038723



Test plugs, color: red

Cover

Cover - BST 2,5 - 3061282



Cover for actuation shaft, 5-pos., for spring-cage terminal blocks with width of 5.2 mm

End cover

End cover - DS-ST 2,5 - 3036602



End cover segments, large segment: 32.25 x 13.83 x 0.9, small segment: 22.65 x 11.65 x 0.9, color: gray

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End cover

End cover - D-ST 2,5-TWIN - 3030488

End cover, length: 60.5 mm, width: 2.2 mm, height: 29 mm, color: gray



Insulating sleeve

Insulating sleeve - ISH 2,5/0,2 - 3002843

Insulating sleeve, color: white



Insulating sleeve

Insulating sleeve - ISH 2,5/0,5 - 3002856

Insulating sleeve, color: gray



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Insulating sleeve

Insulating sleeve - ISH 2,5/1,0 - 3002869



Insulating sleeve, color: black

Insulating sleeve

Insulating sleeve - MPS-IH BK - 0201731



Insulating sleeve, color: black

Insulating sleeve

Insulating sleeve - MPS-IH BU - 0201689



Insulating sleeve, color: blue

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Insulating sleeve

Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green



Insulating sleeve

Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, color: gray



Insulating sleeve

Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red



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Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white



Insulating sleeve

Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow



Screwdriver tools

Screwdriver tools - ST-BW - 1207608

Actuation tool, for all 2.5 mm² - 4.0 mm² spring-cages



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Screwdriver tools

Screwdriver tools - SZF 1-0,6X3,5 - 1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

Test socket

Test socket - PAI-4-FIX-5/6 BK - 3035980



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

Test socket

Test socket - PAI-4-FIX-5/6 BN - 3035981



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

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Test socket

Test socket - PAI-4-FIX-5/6 BU - 3035975



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

Test socket

Test socket - PAI-4-FIX-5/6 GN - 3035978



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

Test socket

Test socket - PAI-4-FIX-5/6 GY - 3035982



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

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Test socket

Test socket - PAI-4-FIX-5/6 OG - 3035974



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

Test socket

Test socket - PAI-4-FIX-5/6 RD - 3035976



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

Test socket

Test socket - PAI-4-FIX-5/6 VT - 3035979



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

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Test socket

Test socket - PAI-4-FIX-5/6 WH - 3035983



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

Test socket

Test socket - PAI-4-FIX-5/6 YE - 3035977



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

End block

End block - E/AL-NS 35 - 1201662



End clamp, for end support of UKH 50 to UKH 240, is pushed onto DIN rail NS 35 and fixed with 2 screws, width: 10 mm, color: aluminum

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Bridge

Bridge - FBSW 2-5/110MM - 3030171

Wire bridge, length: 110 mm, width: 5.1 mm, number of positions: 1, color: red/black



Bridge

Bridge - FBSW 2-5/250MM - 3030172

Wire bridge, length: 250 mm, width: 5.1 mm, number of positions: 1, color: red/black



Bridge

Bridge - FBSW 2-5/60MM - 3030170

Wire bridge, length: 60 mm, width: 5.1 mm, number of positions: 1, color: red/black



Ground terminal block - ST 2,5-TWIN/ 1P-PE - 3042120



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