


**PT 1,5/S-3L**

Order No.: 3213713

<http://catalog.phoenixcontact.net/phoenix/treeViewClick.do?UID=3213713>

Multi-level terminal block, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>,  
AWG: 26 - 16, Connection type: Push-in connection, Width: 3.5 mm,  
Color: gray, Mounting type: NS 35/7,5, NS 35/15

**Commercial data**

|                          |   |
|--------------------------|---|
| EAN                      |  |
| sales group              | A634  |
| Pack                     | 50 Pcs.   |
| Customs tariff           | 85369010  |
| Gross weight in pieces   | 0.012238 KG   |
| Net weight per piece     | 0.01188 KG  |
| Catalog page information | Page 134 (C-3-2013)   |

**Product notes**

WEEE/RoHS-compliant since:  
03/30/2010



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**Technical data****General**

|   |      |
|---|------|
| Number of levels                        | 3    |
| Number of connections                   | 6    |
| Color                                   | gray |
| Insulating material                     | PA   |
| Inflammability class according to UL 94 | V0   |

|                     |                        |
|---------------------|------------------------|
| Area of application | Railway industry       |
|                     | Mechanical engineering |
|                     | Plant engineering      |

**General**

|   |                                     |
|---|-------------------------------------|
| Rated surge voltage   | 6 kV                                |
| Pollution degree  | 3                                   |
| Surge voltage category  | III                                 |
| Insulating material group   | I                                   |
| Connection in acc. with standard  | IEC 60947-7-1                       |
| Maximum load current (lower level)  | 15 A                                |
| Nominal current $I_N$ (lower level)   | 15 A                                |
| Nominal voltage $U_N$   | 500 V                               |
| Open side panel   | ja                                  |
| Shock protection test specification   | DIN EN 50274 (VDE 0660-514):2002-11 |
| Back of the hand protection   | guaranteed                          |
| Finger protection   | guaranteed                          |
| Surge voltage test setpoint   | 7.3 kV                              |
| Result of surge voltage test  | Test passed                         |
| Power frequency withstand voltage setpoint                                      | 1.89 kV                             |
| Result of power-frequency withstand voltage test                                | Test passed                         |
| Checking the mechanical stability of terminal points (5 x conductor connection) | Test passed                         |
| Bending test rotation speed   | 10 rpm                              |
| Bending test turns  | 135                                 |
| Bending test conductor cross section/weight                                     | 0.14 mm <sup>2</sup> / 0.2 kg       |
|   | 1.5 mm <sup>2</sup> / 0.4 kg        |
| Result of bending test  | Test passed                         |
| Conductor cross section tensile test  | 0.14 mm <sup>2</sup>                |
| Tractive force setpoint   | 10 N                                |
| Conductor cross section tensile test  | 1.5 mm <sup>2</sup>                 |
| Tractive force setpoint   | 40 N                                |
| Tensile test result   | Test passed                         |
| Tight fit on carrier  | NS 35                               |
| Setpoint  | 1 N                                 |
| Result of tight fit test  | Test passed                         |

|   |   |
|---|---|
| Result of voltage drop test   | Test passed   |
| Temperature-rise test   | Test passed   |
| Conductor cross section short circuit testing                         | 1.5 mm <sup>2</sup>                                 |
| Short-time current  | 0.18 kA   |
| Short circuit stability result  | Test passed   |
| Ageing test for screwless modular terminal block temperature cycles   | 192   |
| Result of aging test  | Test passed   |
| Proof of thermal characteristics (needle flame) effective duration    | 30 s  |
| Result of thermal test  | Test passed   |
| Test specification, oscillation, broadband noise                      | DIN EN 50155 (VDE 0115-200):2008-03                 |
| Test spectrum   | Service life test category 1, class B, body mounted |
| Test frequency  | f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz    |
| ASD level   | 1.857 (m/s <sup>2</sup> ) <sup>2</sup> /Hz          |
| Acceleration  | 0.8g  |
| Test duration per axis  | 5 h   |
| Test directions   | X-, Y- and Z-axis                                   |
| Oscillation, broadband noise test result                              | Test passed   |
| Test specification, shock test  | DIN EN 50155 (VDE 0115-200):2008-03                 |
| Shock form  | Half-sine   |
| Acceleration  | 5 g   |
| Shock duration  | 30 ms   |
| Number of shocks per direction  | 3   |
| Test directions   | X-, Y- and Z-axis (pos. and neg.)                   |
| Shock test result   | Test passed   |
| Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C  |
| Static insulating material application in cold                        | -60 °C  |
| <b>Dimensions</b>   |   |
| Width   | 3.5 mm  |
| Length  | 97.2 mm   |
| Height NS 35/7,5  | 53.2 mm   |
| Height NS 35/15   | 60.7 mm   |

**Connection data**

|  |                      |
|--|----------------------|
| Connection method  | Push-in connection   |
| Conductor cross section solid min.   | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.   | 1.5 mm <sup>2</sup>  |
| Conductor cross section stranded min.                                      | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded max.                                      | 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min.                                     | 26                   |
| Conductor cross section AWG/kcmil max                                      | 16                   |
| Conductor cross section stranded, with ferrule without plastic sleeve min. | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule without plastic sleeve max. | 1.5 mm <sup>2</sup>  |
| Conductor cross section stranded, with ferrule with plastic sleeve min.    | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule with plastic sleeve max.    | 1 mm <sup>2</sup>    |
| Stripping length   | 8 mm                 |
| Internal cylindrical gage  | A1 / B1              |

**Certificates / Approvals**

Certification

CSA, cULus Recognized, GOST, GL, LR, NK

Certifications applied for:

Certification Ex:

**Accessories**

| Item            | Designation  | Description  |
|-----------------|--------------|--|
| <b>Assembly</b> |              |  |
| 3022218         | CLIPFIX 35   | Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray  |
| 3022276         | CLIPFIX 35-5 | Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray |

|         |                             |   |
|---------|-----------------------------|---|
| 0800886 | E/NS 35 N                   | End clamp, width: 9.5 mm, color: gray   |
| 1201442 | E/UK                        | End clamp, for assembly on NS 32 or NS 35/7.5 DIN rail  |
| 1201413 | E/UK 1                      | End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray                  |
| 0801704 | NS 35/ 7,5 AL UNPERF 2000MM | DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver  |
| 1206560 | NS 35/ 7,5 CAP              | DIN rail end piece, for DIN rail NS 35/7.5  |
| 0801762 | NS 35/ 7,5 CU UNPERF 2000MM | DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m   |
| 0801733 | NS 35/ 7,5 PERF 2000MM      | DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm |
| 0801681 | NS 35/ 7,5 UNPERF 2000MM    | DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m  |
| 1204119 | NS 35/ 7,5 WH PERF 2000MM   | DIN rail 35 mm (NS 35)  |
| 1204122 | NS 35/ 7,5 WH UNPERF 2000MM | DIN rail 35 mm (NS 35)  |
| 1206421 | NS 35/ 7,5 ZN PERF 2000MM   | DIN rail, material: Galvanized, perforated, height 7.5 mm, width 35 mm, length: 2 m   |
| 1206434 | NS 35/ 7,5 ZN UNPERF 2000MM | DIN rail, material: Galvanized, unperforated, height 7.5 mm, width 35 mm, length: 2 m   |
| 1201756 | NS 35/15 AL UNPERF 2000MM   | DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm   |
| 1206573 | NS 35/15 CAP                | DIN rail end piece, for DIN rail NS 35/15   |
| 1201895 | NS 35/15 CU UNPERF 2000MM   | DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m                                  |
| 1201730 | NS 35/15 PERF 2000MM        | DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm  |
| 1201714 | NS 35/15 UNPERF 2000MM      | DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m   |
| 0806602 | NS 35/15 WH PERF 2000MM     | DIN rail 35 mm (NS 35)  |
| 1204135 | NS 35/15 WH UNPERF 2000MM   | DIN rail 35 mm (NS 35)  |
| 1206599 | NS 35/15 ZN PERF 2000MM     | DIN rail, material: Galvanized, perforated, height 15 mm, width 35 mm, length: 2 m  |
| 1206586 | NS 35/15 ZN UNPERF 2000MM   | DIN rail, material: Galvanized, unperforated, height 15 mm, width 35 mm, length: 2 m  |
| 1201798 | NS 35/15-2,3 UNPERF 2000MM  | DIN rail, material: Steel, unperforated, 2.3 mm thick, height 15 mm, width 35 mm, length: 2 m                                   |

**Bridges**

|         |               |  |
|---------|---------------|--|
| 3216263 | FBS 1,5/S-PV  | Jumper, Length: 3 mm, Width: 3.5 mm, Color: black    |
| 3213056 | FBS 10-3,5    | Plug-in bridge, Number of positions: 10, Color: red  |
| 3213125 | FBS 10-3,5 BU | Plug-in bridge, Number of positions: 10, Color: blue |

|         |               |  |
|---------|---------------|--|
| 3213014 | FBS 2-3,5     | Jumper, Number of positions: 2, Color: red           |
| 3213086 | FBS 2-3,5 BU  | Jumper, Number of positions: 2, Color: blue          |
| 3213069 | FBS 20-3,5    | Plug-in bridge, Number of positions: 20, Color: red  |
| 3213138 | FBS 20-3,5 BU | Plug-in bridge, Number of positions: 20, Color: blue |
| 3213027 | FBS 3-3,5     | Plug-in bridge, Number of positions: 3, Color: red   |
| 3213099 | FBS 3-3,5 BU  | Plug-in bridge, Number of positions: 3, Color: blue  |
| 3213030 | FBS 4-3,5     | Plug-in bridge, Number of positions: 4, Color: red   |
| 3213109 | FBS 4-3,5 BU  | Plug-in bridge, Number of positions: 4, Color: blue  |
| 3213043 | FBS 5-3,5     | Plug-in bridge, Number of positions: 5, Color: red   |
| 3213112 | FBS 5-3,5 BU  | Plug-in bridge, Number of positions: 5, Color: blue  |
| 3213250 | RB ST 6-1,5/S | Reducing bridge, Number of positions: 2, Color: red  |

**Connector/Adapter**

|         |           |                                  |
|---------|-----------|----------------------------------|
| 0201731 | MPS-IH BK | Insulating sleeve, Color: black  |
| 0201689 | MPS-IH BU | Insulating sleeve, Color: blue   |
| 0201702 | MPS-IH GN | Insulating sleeve, Color: green  |
| 0201728 | MPS-IH GY | Insulating sleeve, Color: gray   |
| 0201676 | MPS-IH RD | Insulating sleeve, Color: red    |
| 0201663 | MPS-IH WH | Insulating sleeve, Color: white  |
| 0201692 | MPS-IH YE | Insulating sleeve, Color: yellow |
| 0201744 | MPS-MT    | Test plugs, Color: silver        |

**Covers**

|         |               |   |
|---------|---------------|---|
| 3113771 | D-PT 1,5/S-3L | End cover, Length: 97.2 mm, Width: 2.2 mm, Height: 45.5 mm, Color: gray |
|---------|---------------|---|

**General**

|         |       |  |
|---------|-------|--|
| 3208090 | PT-IL | Operating decal for the push-in Technology |
|---------|-------|--|

**Marking**

|         |                 |  |
|---------|-----------------|--|
| 0830132 | STP 3,5-3       | Three-compartment marker carrier, can be snapped into the PT 1,5/S-3L push-in three-level terminal block, can be labeled with ZB 3,5 or ZBF 3,5  |
| 0829486 | UCT-TMF 3,5     | Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, Mounting type: Snap into flat marker groove, for terminal block width: 3.5 mm, Lettering field: 2.7 x 4.7 mm |
| 0829644 | UCT-TMF 3,5 CUS | Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into flat marker groove, for terminal block width: 3.5 mm, Lettering field: 2.7 x 4.7 mm              |

|         |                          |   |
|---------|--------------------------|---|
| 0829394 | ZBF 3,5 CUS              | Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into flat marker groove, for terminal block width: 3.5 mm, Lettering field: 3.5 x 5.2 mm                             |
| 0801406 | ZBF 3,5,LGS:FORTL.ZAHLEN | Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 3.5 mm, Lettering field: 5.15 x 3.5 mm |
| 0801407 | ZBF 3,5,QR:FORTL.ZAHLEN  | Zack Marker strip, flat, Strip, white, labeled, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 3.5 mm, Lettering field: 5.15 x 3.5 mm   |
| 0829392 | ZBF 3,5:UNBEDRUCKT       | Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 3.5 mm, Lettering field: 3.5 x 5.2 mm  |

**Software**

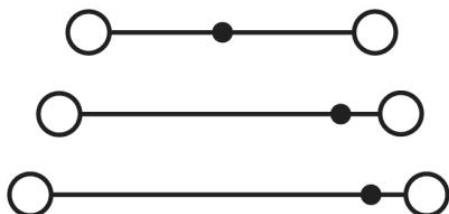
|         |                           |  |
|---------|---------------------------|--|
| 5146040 | CLIP-PROJECT ADVANCED     | Multilingual software for easy planning of Phoenix Contact on DIN rails together with the integrated TRABTECH-select software module for planning comprehensive surge protection concepts.   |
| 5146053 | CLIP-PROJECT PROFESSIONAL | Multi-lingual software for terminal strip project planning. A marking module allows professional labeling of markers and labels for marking terminal blocks, conductors, cables and devices. The additionally integrated software module TRABTECH-select for planning comprehensive surge protection concepts. |

**Tools**

|         |               |  |
|---------|---------------|--|
| 1204504 | SZF 0-0,4X2,5 | Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip |
|---------|---------------|--|

**Drawings**

## Circuit diagram



**Address**

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