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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## Multi-level terminal block - PT 2,5-4L/1P - 3012300

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Multi-level terminal block, Connection method: Push-in connection, Number of connections: 8, Cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 26 - 12, Width: 5.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

### Why buy this product

- ✓ The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- ✓ The compact design and front connection enable wiring in a confined space
- ✓ In addition to the testing facility in the double function shaft, all terminal blocks provide an additional test connection

### Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 50 STK        |
| GTIN         |               |
| GTIN         | 4046356672382 |

### Technical data

#### General

|   |  |
|---|--|
| Number of levels                                | 4  |
| Number of connections                           | 8  |
| Potentials                                      | 4  |
| Nominal cross section                           | 2.5 mm <sup>2</sup>  |
| Color   | gray   |
| Insulating material                             | PA   |
| Flammability rating according to UL 94          | V0   |
| Rated surge voltage                             | 4 kV   |
| Degree of pollution                             | 3  |
| Overvoltage category                            | III  |
| Insulating material group                       | I  |
| Maximum power dissipation for nominal condition | 0.77 W (the value is multiplied when connecting multiple levels) |
| Ambient temperature (operation)                 | -60 °C ... 100 °C (dependent on the derating curve)              |

# Multi-level terminal block - PT 2,5-4L/1P - 3012300

## Technical data

### General

|   |   |
|---|---|
| Ambient temperature (assembly)  | -40 °C ... 100 °C   |
| Maximum load current  | 10 A (with a 2.5 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>  | 10 A  |
| Nominal voltage U <sub>N</sub>  | 250 V   |
| Open side panel   | Yes   |
| Insertion/withdrawal cycles mechanical                                  | 50  |
| Result of surge voltage test  | Test passed   |
| Surge voltage test setpoint   | 4.8 kV  |
| Result of power-frequency withstand voltage test                        | Test passed   |
| Power frequency withstand voltage setpoint                              | 2.21 kV   |
| Result of tight fit on support  | Test passed   |
| Tight fit on carrier  | NS 35   |
| Setpoint  | 1 N   |
| Short circuit stability result  | Test passed   |
| Conductor cross section short circuit testing                           | 1 mm <sup>2</sup>   |
| Short-time current  | 0.12 kA   |
| Result of thermal test  | Test passed   |
| Proof of thermal characteristics (needle flame) effective duration      | 30 s  |
| Oscillation, broadband noise test result                                | 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   | 0.964 (m/s <sup>2</sup> ) <sup>2</sup> /Hz                |
| Acceleration  | 0.58 g  |
| Test duration per axis  | 5 h   |
| Test directions   | X-, Y- and Z-axis   |
| Shock 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.)                         |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C  |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C  |
| Static insulating material application in cold                          | -60 °C  |
| Behavior in fire for rail vehicles (DIN 5510-2)                         | Test passed   |
| Flame test method (DIN EN 60695-11-10)                                  | V0  |
| Oxygen index (DIN EN ISO 4589-2)  | >32 %   |
| NF F16-101, NF F10-102 Class I  | 2   |



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## Technical data

### General

|   |             |
|---|-------------|
| NF F16-101, NF F10-102 Class F                          | 2           |
| 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      |
| Calorimetric heat release NFPA 130 (ASTM E 1354)        | 27,5 MJ/kg  |
| 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 |

### Dimensions

|                  |          |
|------------------|----------|
| Width            | 5.2 mm   |
| End cover width  | 2.2 mm   |
| Length           | 105.6 mm |
| Height NS 35/7,5 | 59 mm    |
| Height NS 35/15  | 66.5 mm  |

### Connection data

|   |                      |
|---|----------------------|
| Connection method   | Push-in connection   |
| Connection in acc. with standard  | IEC 61984            |
| Conductor cross section solid min.  | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.  | 4 mm <sup>2</sup>    |
| Conductor cross section AWG min.  | 26                   |
| Conductor cross section AWG max.  | 12                   |
| Conductor cross section flexible min.   | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max.   | 2.5 mm <sup>2</sup>  |
| Min. AWG conductor cross section, flexible  | 26                   |
| Max. AWG conductor cross section, flexible  | 14                   |
| Conductor cross section flexible, with ferrule without plastic sleeve min.              | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.              | 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                 | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                 | 2.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 0.5 mm <sup>2</sup>  |
| Stripping length  | 8 mm ... 10 mm       |
| Internal cylindrical gage   | A3                   |

### Standards and Regulations

|  |           |
|--|-----------|
| Connection in acc. with standard       | IEC 61984 |
| Flammability rating according to UL 94 | V0        |

### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|------------|---|

# Multi-level terminal block - PT 2,5-4L/1P - 3012300

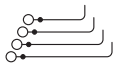
## Technical data

### Environmental Product Compliance

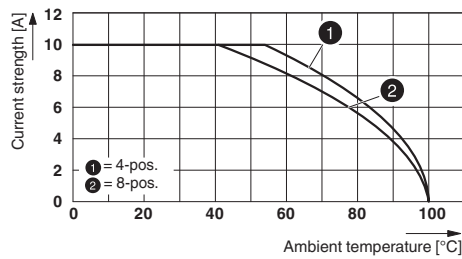
|  |  |
|--|--|
|  | No hazardous substances above threshold values |
|--|--|

## Drawings

### Circuit diagram



### Diagram



## Approvals

### Approvals

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### Approvals

EAC / IECCEB Scheme / VDE Gutachten mit Fertigungsüberwachung / UL Recognized / cUL Recognized / cULus Recognized

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### Ex Approvals

### Approval details

|     |  |                     |
|-----|--|---------------------|
| EAC |  | 7500651.22.01.00246 |
|-----|--|---------------------|


|                                |       |   |              |
|--------------------------------|-------|---|--------------|
| IECEE CB Scheme                |       | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-55820_M1 |
| Nominal current I <sub>N</sub> | 10 A  |   |              |
| Nominal voltage U <sub>N</sub> | 250 V |   |              |


|   |          |   |          |
|---|----------|---|----------|
| VDE Gutachten mit Fertigungsüberwachung |          | <a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx</a> | 40042533 |
| mm <sup>2</sup> /AWG/kcmil              | 0.14-2.5 |   |          |

## Multi-level terminal block - PT 2,5-4L/1P - 3012300

### Approvals

|                                |       |
|--------------------------------|-------|
| Nominal current I <sub>N</sub> | 10 A  |
| Nominal voltage U <sub>N</sub> | 250 V |

|                                |   |   |              |
|--------------------------------|---|---|--------------|
| UL Recognized                  |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                                | B   | C   |              |
| mm <sup>2</sup> /AWG/kcmil     | 26-12   | 26-12   |              |
| Nominal current I <sub>N</sub> | 10 A  | 10 A  |              |
| Nominal voltage U <sub>N</sub> | 300 V   | 300 V   |              |

|                                |   |   |              |
|--------------------------------|---|---|--------------|
| cUL Recognized                 |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                                | B   | C   |              |
| mm <sup>2</sup> /AWG/kcmil     | 26-12   | 26-12   |              |
| Nominal current I <sub>N</sub> | 10 A  | 10 A  |              |
| Nominal voltage U <sub>N</sub> | 300 V   | 300 V   |              |

|                  |   |   |
|------------------|---|---|
| cULus Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> |
|------------------|---|---|

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PHOENIX CONTACT GmbH & Co. KG  
 Flachsmarktstr. 8  
 32825 Blomberg  
 Germany  
 Tel. +49 5235 300  
 Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>