

# SP 2,5/ 4 - Plug

3040287

<https://www.phoenixcontact.com/pc/products/3040287>



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Plug, nom. voltage: 500 V, nominal current: 24 A, number of positions: 4, connection method: Spring-cage connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.08 mm<sup>2</sup>- 4 mm<sup>2</sup>, color: gray

## Your advantages

- Large-surface labeling option
- Practical coding option

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 3040287             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 1 pc                |
| Product key                          | BE2144              |
| Catalog page                         | Page 318 (C-1-2019) |
| GTIN                                 | 4017918832810       |
| Weight per piece (including packing) | 11.83 g             |
| Weight per piece (excluding packing) | 11.83 g             |
| Customs tariff number                | 85366990            |
| Country of origin                    | PL                  |

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## Technical data

### Product properties

|                     |               |
|---------------------|---------------|
| Product type        | Terminal plug |
| Number of positions | 4             |
| Pitch               | 5.2 mm        |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|                     |      |
|---------------------|------|
| Rated surge voltage | 6 kV |
|---------------------|------|

### Connection data

|   |   |
|---|---|
| Nominal cross section   | 2.5 mm <sup>2</sup>                                   |
| 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> ... 4 mm <sup>2</sup>            |
| Cross section AWG   | 28 ... 12 (converted acc. to IEC)                     |
| Conductor cross section flexible  | 0.08 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>          |
| Conductor cross section, flexible [AWG]   | 28 ... 14 (converted acc. to IEC)                     |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>          |
| Flexible conductor cross section (ferrule with plastic sleeve)                            | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>          |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup>                                   |
| Nominal current   | 24 A  |
| Maximum load current  | 24 A (with 4 mm <sup>2</sup> conductor cross section) |
| Nominal voltage   | 500 V   |
| Nominal cross section   | 2.5 mm <sup>2</sup>                                   |

### Dimensions

|        |         |
|--------|---------|
| Width  | 20.8 mm |
| Height | 15.8 mm |
| Depth  | 39 mm   |
| Length | 15.8 mm |
| Pitch  | 5.2 mm  |

### Material specifications

|  |      |
|--|------|
| Color                                  | gray |
| Flammability rating according to UL 94 | V0   |
| Insulating material group              | I    |
| Insulating material                    | PA   |

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|   |             |
|---|-------------|
| 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      |

## 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, no longer than 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

|                                  |           |
|----------------------------------|-----------|
| Connection in acc. with standard | IEC 61984 |
|----------------------------------|-----------|

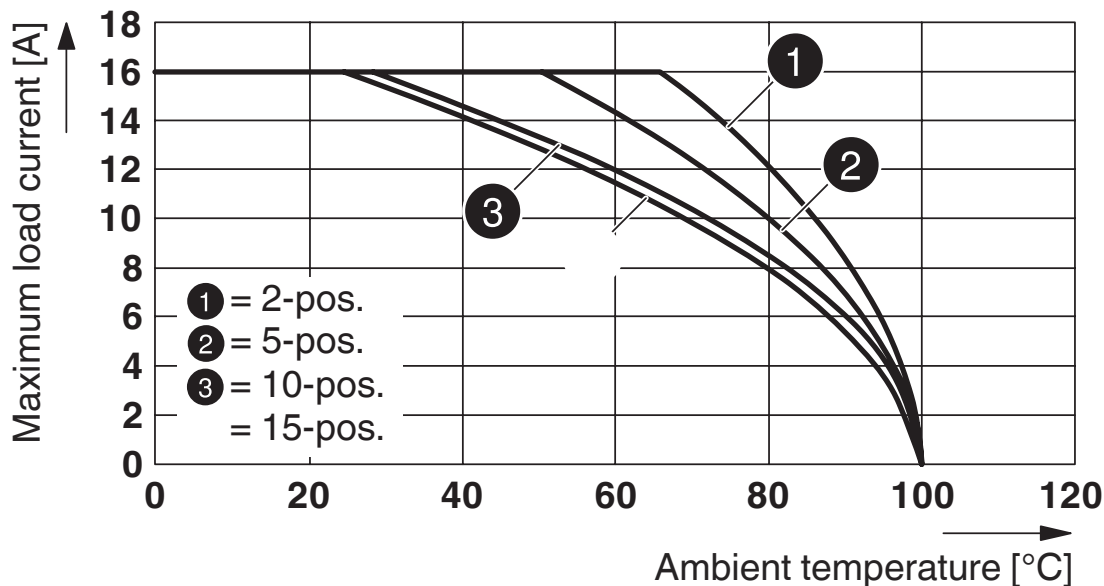
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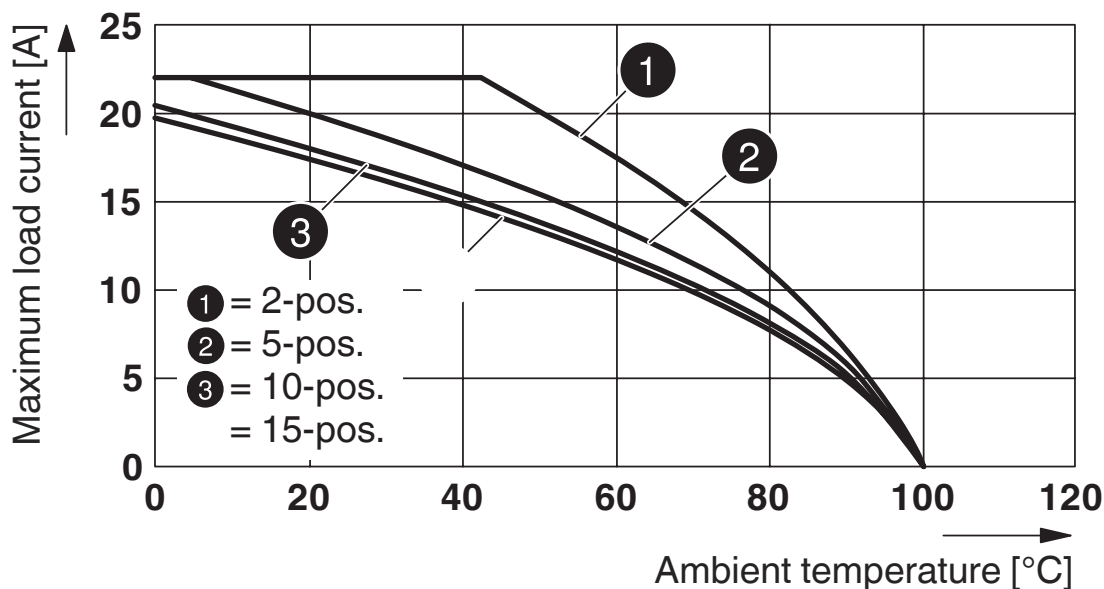
## Drawings

Diagram



Derating curve for ST 2,5-TWIN-MT/1P, ST 2,5-TWIN-TG/1P and for all plug versions SP...

Diagram

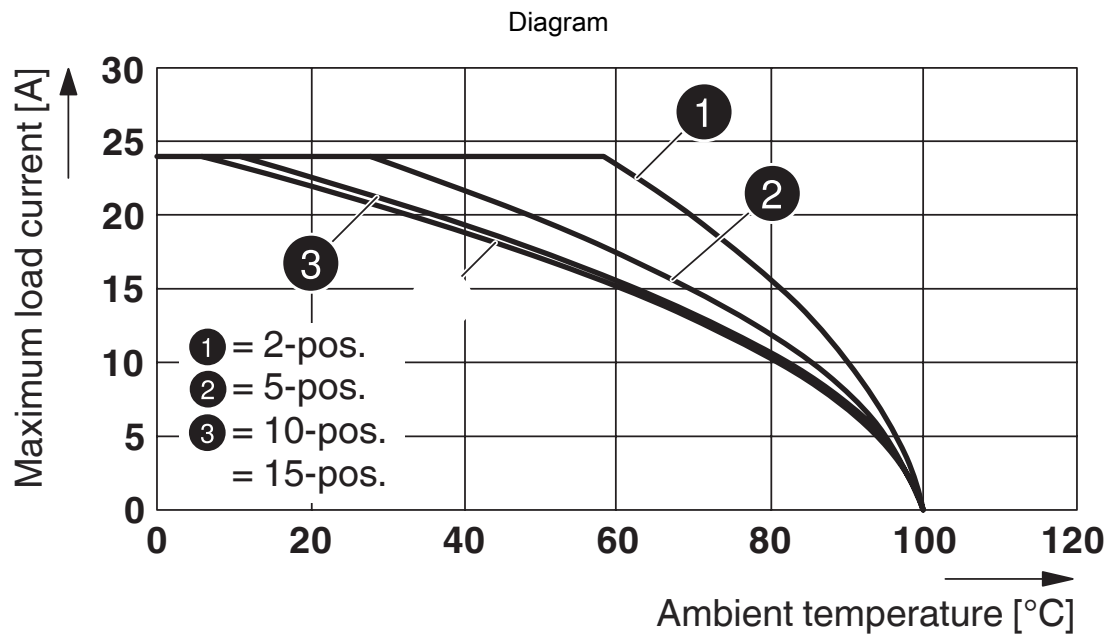


Derating curve for STTB 2,5/ 2P, STTB 2,5/ 2P-PV and for all plug versions SP...

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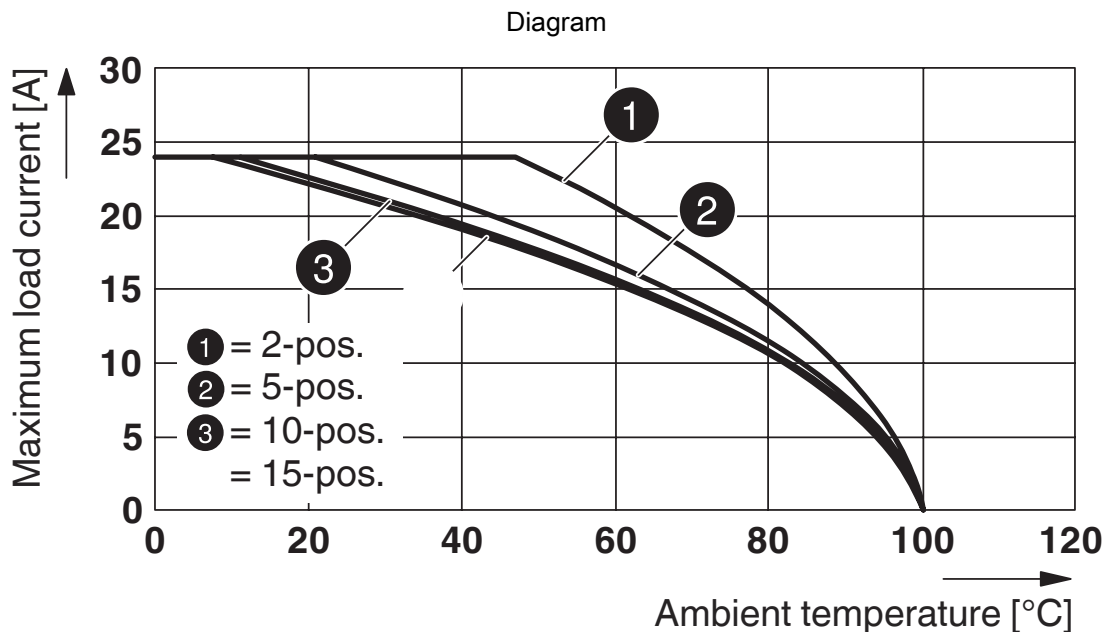
<https://www.phoenixcontact.com/pc/products/3040287>



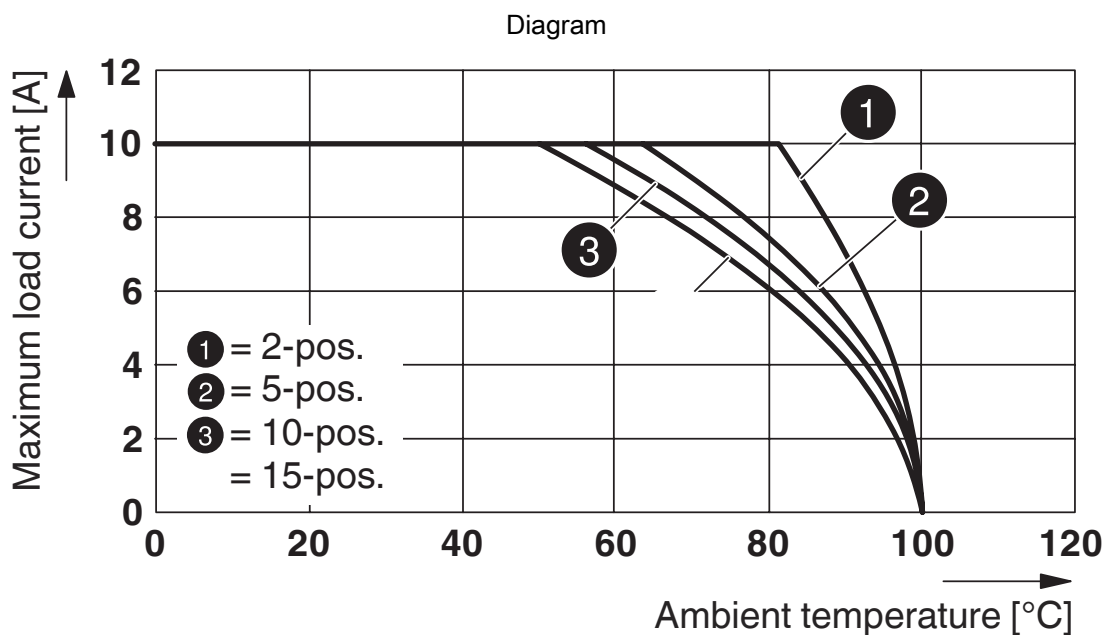
Derating curve for ST 2,5-QUATTRO/2P, ST 2,5-QUATTRO/4P and for all plug versions SP...

Circuit diagram





Derating curve for ST 2,5/ 1P, ST 2,5/ 2P, ST 2,5-TWIN/ 1P and for all plug versions SP... .



Derating curve for ST 2,5-4L/1P, ST 2,5-4L/2P and for all plug versions SP... .

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/3040287>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| Use group B  | 300 V                 | 20 A                  | 28 - 12           | -                    |
| Use group C  | 300 V                 | 20 A                  | 28 - 12           | -                    |
| Use group D  | 600 V                 | 5 A                   | 28 - 12           | -                    |


|  <b>IECEE CB Scheme</b><br>Approval ID: DE1-62736/B1/B2 |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

|  <b>EAC</b><br>Approval ID: RU C-DE.A*30.B.01742 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>LR</b><br>Approval ID: LR2042068TA |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>BV</b><br>Approval ID: 27721/B0 BV |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>EAC</b><br>Approval ID: RU C-DE.BL08.B.00511 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>VDE Zeichengenehmigung</b><br>Approval ID: 40019518 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| Only flexible conductors   | 500 V                 | -                     | -                 | 0.2 - 2.5            |
| Only rigid conductors  | 500 V                 | -                     | -                 | 0.2 - 4              |

|  <b>cULus Recognized</b><br>Approval ID: E60425 |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

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**cULus Recognized**  
Approval ID: E60425

**DNV**

Approval ID: TAE00001CS

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141151 |
| ECLASS-12.0 | 27141151 |
| ECLASS-13.0 | 27250306 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002021 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### 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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