

## PCB terminal block - SPTAF 1/13-3,5-LL - 1864396

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)

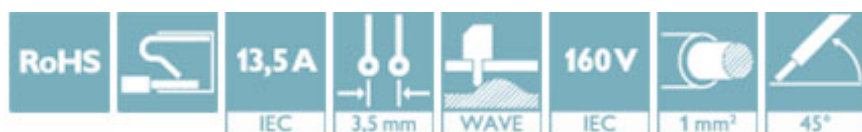


The figure shows a 10-position version of the product

PCB terminal block, nominal current: 13.5 A, nom. voltage: 160 V, pitch: 3.5 mm, number of positions: 13, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green

### Why buy this product

- ✓ Time saving push-in connection, tools not required
- ✓ Defined contact force ensures that contact remains stable over the long term
- ✓ Finger-operated and fixable release button for very convenient operation
- ✓ Small component size for applications where space is at a premium
- ✓ Quick and convenient testing using integrated test option



### Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 50 STK                                                                               |
| GTIN         |  |
| GTIN         | 4055626246574                                                                        |

### Technical data

#### Dimensions

|                       |               |
|-----------------------|---------------|
| Length [ l ]          | 11 mm         |
| Pitch                 | 3.5 mm        |
| Dimension a           | 42 mm         |
| Width [ w ]           | 47 mm         |
| Constructional height | 10.9 mm       |
| Height [ h ]          | 13.5 mm       |
| Solder pin [P]        | 2.6 mm        |
| Pin dimensions        | 0,75 x 0,3 mm |
| Pin spacing           | 5 mm          |
| Hole diameter         | 1.1 mm        |

## PCB terminal block - SPTAF 1/13-3,5-LL - 1864396

### Technical data

#### General

|                                  |                   |
|----------------------------------|-------------------|
| Range of articles                | SPTAF 1/...-LL    |
| Rated surge voltage (III/3)      | 2.5 kV            |
| Rated surge voltage (III/2)      | 2.5 kV            |
| Rated surge voltage (II/2)       | 2.5 kV            |
| Rated voltage (III/3)            | 160 V             |
| Rated voltage (III/2)            | 160 V             |
| Rated voltage (II/2)             | 320 V             |
| Connection in acc. with standard | EN-VDE            |
| Nominal current $I_N$            | 13.5 A            |
| Nominal cross section            | 1 mm <sup>2</sup> |
| Solder pin surface               | Sn                |
| Stripping length                 | 8 mm              |
| Number of positions              | 13                |

#### Connection data

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Conductor cross section solid min.                                         | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.                                         | 0.75 mm <sup>2</sup> |
| Conductor cross section flexible min.                                      | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.                                      | 1 mm <sup>2</sup>    |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 0.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 0.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.                                           | 24                   |
| Conductor cross section AWG max.                                           | 18                   |

#### Standards and Regulations

|                                  |        |
|----------------------------------|--------|
| Connection in acc. with standard | EN-VDE |
|----------------------------------|--------|

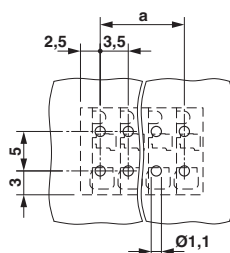
#### Environmental Product Compliance

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

### Drawings

## PCB terminal block - SPTAF 1/13-3,5-LL - 1864396

Drilling diagram



### Approvals

#### Approvals

##### Approvals

cULus Recognized / VDE approval of drawings / IECEx CB Scheme / cULus Recognized

##### Ex Approvals

#### Approval details

|                                                                                                                                                                                                                                                                            |       |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|
| 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> E60425-20061129 |       |       |
|                                                                                                                                                                                                                                                                            | B     | D     |
| mm <sup>2</sup> /AWG/kcmil                                                                                                                                                                                                                                                 | 24-16 | 24-16 |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                             | 8 A   | 8 A   |
| Nominal voltage U <sub>N</sub>                                                                                                                                                                                                                                             | 300 V | 300 V |

|                                                                                                                                                                                                                                                                                                                               |         |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--|
| VDE approval of drawings  <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> 40047107 |         |  |
|                                                                                                                                                                                                                                                                                                                               |         |  |
| mm <sup>2</sup> /AWG/kcmil                                                                                                                                                                                                                                                                                                    | 0.2-1.0 |  |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                                                                                | 13.5 A  |  |
| Nominal voltage U <sub>N</sub>                                                                                                                                                                                                                                                                                                | 160 V   |  |

|                                                                                                                                                                         |         |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--|
| IECEx CB Scheme  <a href="http://www.iecee.org/">http://www.iecee.org/</a> DE1-59461 |         |  |
|                                                                                                                                                                         |         |  |
| mm <sup>2</sup> /AWG/kcmil                                                                                                                                              | 0.2-1.0 |  |
| Nominal current I <sub>N</sub>                                                                                                                                          | 13.5 A  |  |

## PCB terminal block - SPTAF 1/13-3,5-LL - 1864396

### Approvals

|                    |       |
|--------------------|-------|
| Nominal voltage UN | 160 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> | E60425-20061129 |
|                    | B                                                                                 | D                                                                                                                                                     |                 |
| mm²/AWG/kcmil      | 24-18                                                                             | 24-18                                                                                                                                                 |                 |
| Nominal current IN | 8 A                                                                               | 8 A                                                                                                                                                   |                 |
| Nominal voltage UN | 300 V                                                                             | 300 V                                                                                                                                                 |                 |

Phoenix Contact 2018 © - all rights reserved  
<http://www.phoenixcontact.com>

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