

# Spring cage ground terminal block - ST 16-PE - 3036165

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>)



Spring cage ground terminal block, connection method: Spring-cage connection, number of connections: 2, cross section: 0.2 mm<sup>2</sup> - 25 mm<sup>2</sup>, AWG: 24 - 4, width: 12.2 mm, color: green-yellow, mounting type: NS 35/7,5, NS 35/15



## Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 25 pc         |
| GTIN         |               |
| GTIN         | 4017918821098 |

## Technical data

### General

|  |  |
|--|--|
| Number of levels                         | 1  |
| Number of connections                    | 2  |
| Nominal cross section                    | 16 mm <sup>2</sup>   |
| Color                                    | green-yellow   |
| Insulating material                      | PA   |
| Flammability rating according to UL 94   | V0   |
| Rated surge voltage                      | 8 kV   |
| Degree of pollution                      | 3  |
| Overvoltage category                     | III  |
| Insulating material group                | I  |
| Open side panel                          | Yes  |
| Ambient temperature (operation)          | -60 °C ... 85 °C   |
| Ambient temperature (storage/transport)  | -25 °C ... 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C) |
| Permissible humidity (storage/transport) | 30 % ... 70 %  |
| Ambient temperature (assembly)           | -5 °C ... 70 °C  |
| Ambient temperature (actuation)          | -5 °C ... 70 °C  |
| Shock protection test specification      | DIN EN 50274 (VDE 0660-514):2002-11                                    |

# Spring cage ground terminal block - ST 16-PE - 3036165

## Technical data

### General

|   |             |
|---|-------------|
| Back of the hand protection   | guaranteed  |
| 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      |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed      |
| Specific optical density of smoke NFPA 130 (ASTM E 662)                 | passed      |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 27,5 MJ/kg  |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed      |
| 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            | 12.2 mm |
| End cover width  | 2.2 mm  |
| Length           | 80 mm   |
| Height NS 35/7,5 | 51.5 mm |
| Height NS 35/15  | 59 mm   |

### Connection data

|  |  |
|--|--|
| Note   | Please observe the current carrying capacity of the DIN rails. |
| Connection   | 1 level  |
| Connection method  | Spring-cage connection   |
| Stripping length   | 18 mm  |
| Connection in acc. with standard   | IEC 60947-7-2  |
| Conductor cross section solid min.   | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.   | 25 mm <sup>2</sup>   |
| Conductor cross section AWG min.   | 24   |
| Conductor cross section AWG max.   | 4  |
| Conductor cross section flexible min.  | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.  | 16 mm <sup>2</sup>   |
| Min. AWG conductor cross section, flexible   | 24   |
| Max. AWG conductor cross section, flexible   | 6  |
| 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.                             | 16 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.                                | 16 mm <sup>2</sup>   |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum | 1.5 mm <sup>2</sup>  |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 4 mm <sup>2</sup>  |

# Spring cage ground terminal block - ST 16-PE - 3036165

## Technical data

### Connection data

|                                       |                     |
|---------------------------------------|---------------------|
| Connection in acc. with standard      | IEC/EN 60079-7      |
| Conductor cross section solid min.    | 1.5 mm <sup>2</sup> |
| Conductor cross section solid max.    | 25 mm <sup>2</sup>  |
| Conductor cross section AWG min.      | 16                  |
| Conductor cross section AWG max.      | 4                   |
| Conductor cross section flexible min. | 1.5 mm <sup>2</sup> |
| Conductor cross section flexible max. | 16 mm <sup>2</sup>  |
| Internal cylindrical gage             | A7                  |

### Standards and Regulations

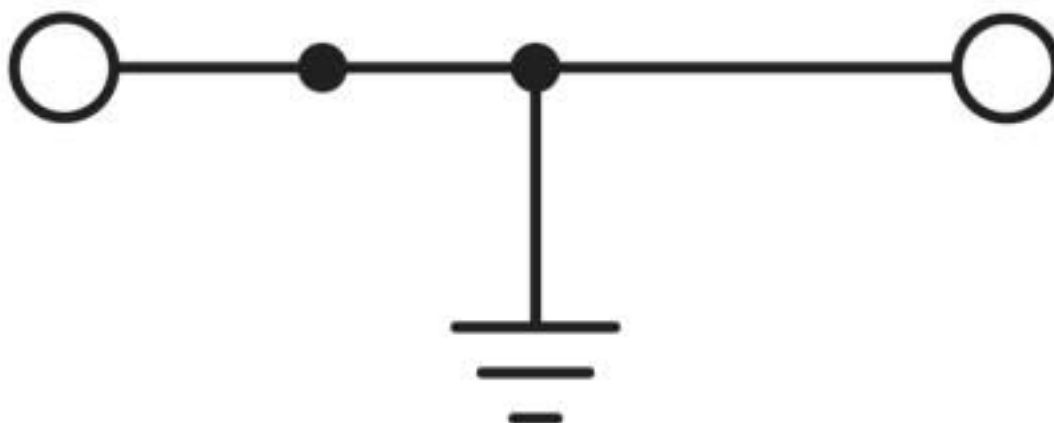
|  |                |
|--|----------------|
| Connection in acc. with standard       | CSA            |
|  | IEC 60947-7-2  |
|  | IEC/EN 60079-7 |
| Flammability rating according to UL 94 | V0             |

### Environmental Product Compliance

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

## Drawings

Circuit diagram



## Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141141 |
| eCl@ss 4.0    | 27141100 |
| eCl@ss 4.1    | 27141100 |
| eCl@ss 5.0    | 27141100 |
| eCl@ss 5.1    | 27141100 |

# Spring cage ground terminal block - ST 16-PE - 3036165

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 6.0 | 27141100 |
| eCl@ss 7.0 | 27141141 |
| eCl@ss 8.0 | 27141141 |
| eCl@ss 9.0 | 27141141 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000901 |
| ETIM 3.0 | EC000901 |
| ETIM 4.0 | EC000901 |
| ETIM 5.0 | EC000901 |
| ETIM 6.0 | EC000901 |
| ETIM 7.0 | EC000901 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |
| UNSPSC 18.0   | 39121410 |
| UNSPSC 19.0   | 39121410 |
| UNSPSC 20.0   | 39121410 |
| UNSPSC 21.0   | 39121410 |

## Approvals

### Approvals

#### Approvals

BV / KR / NK / UL Recognized / cUL Recognized / EAC / DNV GL / PRS / RS / LR / IECCEB CB Scheme / VDE Zeichengenehmigung / cULus Recognized

#### Ex Approvals

IECEX / ATEX / EAC Ex

### Approval details

|    |  |   |             |
|----|--|---|-------------|
| BV |  | <a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a> | 13403/D0 BV |
|----|--|---|-------------|

# Spring cage ground terminal block - ST 16-PE - 3036165

## Approvals

|    |  |   |                |
|----|--|---|----------------|
| KR |  | <a href="http://www.krs.co.kr/eng/main/main.aspx">http://www.krs.co.kr/eng/main/main.aspx</a> | HMB17372-EL002 |
|----|--|---|----------------|

|    |  |   |           |
|----|--|---|-----------|
| NK |  | <a href="http://www.classnk.or.jp/hp/en/">http://www.classnk.or.jp/hp/en/</a> | 09 ME 140 |
|----|--|---|-----------|

|                            |  |   |              |
|----------------------------|--|---|--------------|
| 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 |
| mm <sup>2</sup> /AWG/kcmil |  | 16-4  |              |

|                            |  |   |             |
|----------------------------|--|---|-------------|
| 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 E60425 |
| mm <sup>2</sup> /AWG/kcmil |  | 16-4  |             |

|     |  |  |                          |
|-----|--|--|--------------------------|
| EAC |  |  | RU C-<br>DE.A*30.B.01742 |
|-----|--|--|--------------------------|

|        |  |   |            |
|--------|--|---|------------|
| DNV GL |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE00001CS |
|--------|--|---|------------|

|     |  |   |                   |
|-----|--|---|-------------------|
| PRS |  | <a href="http://www.prs.pl/">http://www.prs.pl/</a> | TE/2156/880590/17 |
|-----|--|---|-------------------|

|    |  |   |              |
|----|--|---|--------------|
| RS |  | <a href="http://www.rs-head.spb.ru/en/index.php">http://www.rs-head.spb.ru/en/index.php</a> | 17.00013.272 |
|----|--|---|--------------|

|    |  |   |             |
|----|--|---|-------------|
| LR |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a> | LR2014888TA |
|----|--|---|-------------|

# Spring cage ground terminal block - ST 16-PE - 3036165

## Approvals

|                 |  |   |              |
|-----------------|--|---|--------------|
| IECEE CB Scheme |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-62971_M1 |
|-----------------|--|---|--------------|

|                            |        |   |          |
|----------------------------|--------|---|----------|
| VDE Zeichengenehmigung     |        | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40010331 |
| Nominal current IN         | 76 A   |   |          |
| mm <sup>2</sup> /AWG/kcmil | 1.5-16 |   |          |

|                  |  |
|------------------|--|
| cULus Recognized |  |
|------------------|--|

## Accessories

### Accessories

#### DIN rail

DIN rail perforated - 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, unperforated - 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 perforated - 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

## Spring cage ground terminal block - ST 16-PE - 3036165

### Accessories

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



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 perforated - 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, unperforated - 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

---

DIN rail, unperforated - 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

---

# Spring cage ground terminal block - ST 16-PE - 3036165

## Accessories

End cap - NS 35/ 7,5 CAP - 1206560

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



## Documentation

Mounting material - ST-IL - 3039900

Operating decal for the ST terminal block



## End block

End clamp - 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

---

## End cover

End cover - D-ST 16 - 3036657



End cover, length: 80 mm, width: 2.2 mm, height: 51.1 mm, color: gray

---

## Jumper

Plug-in bridge - FBS 2-12 - 3005950



Plug-in bridge, pitch: 12 mm, number of positions: 2, color: red

---



## Spring cage ground terminal block - ST 16-PE - 3036165

### Accessories

Labeled terminal marker

Warning cover - WST 10/35 - 3030006

Warning cover, 5-pos., for terminal widths of 10.2 mm, 12.2 mm, and 16 mm



---

Zack marker strip - ZB 12 CUS - 0824942



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 12.2 mm, lettering field size: 10.5 x 12.15 mm, Number of individual labels: 5

---

Zack marker strip - ZB 12,LGS:L1-N,PE - 0812146



Zack marker strip, Strip, white, labeled, printed horizontally: L1, L2, L3, N, PE, mounting type: snap into tall marker groove, for terminal block width: 12.2 mm, lettering field size: 10.5 x 12.15 mm, Number of individual labels: 5

---

Marker for terminal blocks - UC-TM 12 CUS - 0824613



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 12 mm, lettering field size: 11.45 x 10.5 mm, Number of individual labels: 40

---

Marker for terminal blocks - UCT-TM 12 CUS - 0829630



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 12 mm, lettering field size: 10.8 x 9.6 mm, Number of individual labels: 30

## Spring cage ground terminal block - ST 16-PE - 3036165

### Accessories

#### Zack Marker strip, flat - ZBF 12 CUS - 0825018



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: 12 mm, lettering field size: 5.15 x 12.15 mm, Number of individual labels: 5

---

#### Marker for terminal blocks - UC-TMF 12 CUS - 0824670



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: 12 mm, lettering field size: 11.45 x 5.1 mm, Number of individual labels: 40

---

#### Marker for terminal blocks - UCT-TMF 12 CUS - 0829686



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: 12 mm, lettering field size: 11.2 x 4.7 mm, Number of individual labels: 30

---

### Reducing bridge

#### Reducing bridge - RB PTPOWER 35-ST 16 - 3032170



Reducing bridge, For bridging PTPOWER 35 to ST 16... or PT 16 N terminal blocks, pitch: 14.5 mm, length: 5 mm, width: 22.9 mm, number of positions: 2, color: red

---

### Screwdriver tools

#### Screwdriver - SZF 3-1,0X5,5 - 1206612



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 1.0 x 5.5 x 150 mm, 2-component grip, with non-slip grip

---

### Terminal marking

## Spring cage ground terminal block - ST 16-PE - 3036165

### Accessories

#### Zack marker strip - ZB 12:UNPRINTED - 0812120



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: 12.2 mm, lettering field size: 12 x 10.5 mm, Number of individual labels: 5

#### Marker for terminal blocks - UC-TM 12 - 0819194



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: 12 mm, lettering field size: 11.45 x 10.5 mm, Number of individual labels: 40

#### Marker for terminal blocks - UCT-TM 12 - 0829144



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: 12 mm, lettering field size: 10.8 x 9.6 mm, Number of individual labels: 30

#### Zack Marker strip, flat - ZBF 12:UNBEDRUCKT - 0809735



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: 12 mm, lettering field size: 5.15 x 12.15 mm, Number of individual labels: 5

#### Marker for terminal blocks - UC-TMF 12 - 0819233



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: 12 mm, lettering field size: 11.45 x 5.1 mm, Number of individual labels: 40

## Spring cage ground terminal block - ST 16-PE - 3036165

### Accessories

Marker for terminal blocks - UCT-TMF 12 - 0829214



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: 12 mm, lettering field size: 11.2 x 4.7 mm, Number of individual labels: 30

---

Phoenix Contact 2020 © - 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>

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Phoenix Contact:](#)

[3036165](#)