

# ZFKDSA 2,5-5,08- 3 EX - PCB terminal block



1835341

<https://www.phoenixcontact.com/us/products/1835341>

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 documentation. Our general terms of use for downloads are valid.



PCB terminal block, nominal current: 22 A, nominal cross section: 2.5 mm<sup>2</sup>, number of potentials: 3, number of rows: 1, number of positions per row: 3, product range: ZFKDS(A) 2,5-EX, pitch: 5.08 mm, connection method: Spring-cage connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 2, type of packaging: packed in cardboard

## Your advantages

- Defined contact force ensures that contact remains stable over the long term
- Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- Angled connection enables multi-row arrangement on the PCB
- Satisfies the more stringent safety requirements of "Ex eb" protection according to IEC 60079-7 for potentially explosive areas
- The latching on the side enables various numbers of positions to be combined
- Two solder pins reduce the mechanical strain on the soldering spots

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1835341                        |
| Packing unit                         | 50 pc                          |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | AAMMAA                         |
| GTIN                                 | 4055626024943                  |
| Weight per piece (including packing) | 4.046 g                        |
| Weight per piece (excluding packing) | 4.026 g                        |
| Country of origin                    | PL                             |

# ZFKDSA 2,5-5,08- 3 EX - PCB terminal block



1835341

<https://www.phoenixcontact.com/us/products/1835341>

## Technical data

### Product properties

|                           |                      |
|---------------------------|----------------------|
| Product type              | PCB terminal block   |
| Product family            | ZFKDS(A) 2,5-EX      |
| Product line              | COMBICON Terminals M |
| Number of positions       | 3                    |
| Pitch                     | 5.08 mm              |
| Number of connections     | 3                    |
| Number of rows            | 1                    |
| Number of potentials      | 3                    |
| Pin layout                | Linear pinning       |
| Solder pins per potential | 2                    |

### Electrical properties

#### Properties

|   |                          |
|---|--------------------------|
| Nominal current $I_N$                   | 22 A                     |
| Nominal voltage $U_N$                   | 137 V                    |
| Rated current / conductor cross-section | 22 A/2.5 mm <sup>2</sup> |

### Ex data

#### Ex approval

|                                 |   |
|---------------------------------|---|
| Identification                  | 0344 <sup>Ⓢ</sup> II 2GD / Ex eb IIC Gb |
| EU-type examination certificate | DEKRA 22ATEX0001U                       |
| IECEx certificate               | IECEx DEK 22.0001U                      |

### Connection data

#### Connection technology

|                       |                     |
|-----------------------|---------------------|
| Nominal cross section | 2.5 mm <sup>2</sup> |
|-----------------------|---------------------|

#### Conductor connection

|                                  |   |
|----------------------------------|---|
| Connection method                | Spring-cage connection                      |
| Conductor cross-section rigid    | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Conductor cross-section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Stripping length                 | 7 mm  |

### Mounting

|               |                |
|---------------|----------------|
| Mounting type | Wave soldering |
| Pin layout    | Linear pinning |

### Material specifications

#### Material data - contact

# ZFKDSA 2,5-5,08- 3 EX - PCB terminal block



1835341

<https://www.phoenixcontact.com/us/products/1835341>

|  |  |
|--|--|
| Note                                     | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 |
| Contact material                         | Cu alloy   |
| Surface characteristics                  | Tin-plated   |
| Metal surface terminal point (top layer) | Tin (10 µm - 16 µm Sn)   |
| Metal surface soldering area (top layer) | Tin (10 µm - 16 µm Sn)   |

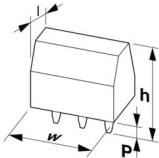
## Material data - housing

|   |              |
|---|--------------|
| Color (Housing)   | green (6021) |
| Insulating material   | PA           |
| Insulating material group   | I            |
| CTI according to IEC 60112  | 600          |
| Flammability rating according to UL 94                            | V0           |
| Glow wire flammability index GWFI according to EN 60695-2-12      | 850          |
| Glow wire ignition temperature GWIT according to EN 60695-2-13    | 775          |
| Temperature for the ball pressure test according to EN 60695-10-2 | 125 °C       |

## Material data – actuating element

|                           |              |
|---------------------------|--------------|
| Color (Actuating element) | green (6021) |
|---------------------------|--------------|

## Dimensions

|                       |  |
|-----------------------|--|
| Dimensional drawing   |  |
| Pitch                 | 5.08 mm  |
| Width [w]             | 16.24 mm   |
| Height [h]            | 17.7 mm  |
| Length [l]            | 16.85 mm   |
| Installed height      | 14.2 mm  |
| Solder pin length [P] | 3.5 mm   |
| Pin dimensions        | 0.8 x 0.8 mm   |

## PCB design

|               |        |
|---------------|--------|
| Hole diameter | 1.3 mm |
|---------------|--------|

## Environmental and real-life conditions

### Ambient conditions

|   |                   |
|---|-------------------|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C  |
| Relative humidity (storage/transport)   | 30 % ... 70 %     |
| Ambient temperature (assembly)          | -5 °C ... 100 °C  |
| Ambient temperature (operation)         | -50 °C ... 110 °C |

# ZFKDSA 2,5-5,08- 3 EX - PCB terminal block



1835341

<https://www.phoenixcontact.com/us/products/1835341>

## Packaging specifications

| Type of packaging   |
|---------------------|
| packed in cardboard |

# ZFKDSA 2,5-5,08- 3 EX - PCB terminal block





1835341

<https://www.phoenixcontact.com/us/products/1835341>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1835341>

|  <b>IECEX</b><br>Approval ID: IECEX DEK 22.0001U |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
|   | 137 V                 | 22 A                  | -                 | 0.2 - 4                     |
| with pitch spacer   | 275 V                 | 22 A                  | -                 | 0.2 - 4                     |

|  <b>ATEX</b><br>Approval ID: DEKRA 22ATEX0001U |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
|   | 137 V                 | 22 A                  | -                 | 0.2 - 4                     |
| with pitch spacer   | 275 V                 | 22 A                  | -                 | 0.2 - 4                     |

# ZFKDSA 2,5-5,08- 3 EX - PCB terminal block



1835341

<https://www.phoenixcontact.com/us/products/1835341>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27460101 |
| ECLASS-15.0 | 27460101 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002643 |
|-----------|----------|

### UNSPSC

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

# ZFKDSA 2,5-5,08- 3 EX - PCB terminal block



1835341

<https://www.phoenixcontact.com/us/products/1835341>

## 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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)