

MKDSP 25/ 9-15,00 - PCB terminal block

1932656

<https://www.phoenixcontact.com/us/products/1932656>

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: 125 A, rated voltage (III/2): 1000 V, nominal cross section: 35 mm², number of potentials: 9, number of rows: 1, number of positions per row: 9, product range: MKDSP 25, pitch: 15 mm, connection method: Screw connection with tension sleeve, screw head form: Z2L Slotted Pozidriv, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 4.5 mm, number of solder pins per potential: 4, type of packaging: packed in cardboard. Avoid placing permanent mechanical loads on the terminal

Your advantages

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Allows connection of two conductors
- Quick and convenient testing using integrated test option
- Integrated protective guide prevents incorrect insertion of the conductor underneath the tension sleeve

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1932656 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | AA15 |
| Product key | AAOIAA |
| GTIN | 4017918902155 |
| Weight per piece (including packing) | 193.2 g |
| Weight per piece (excluding packing) | 187.04 g |
| Customs tariff number | 85369010 |
| Country of origin | SK |

MKDSP 25/ 9-15,00 - PCB terminal block



1932656

<https://www.phoenixcontact.com/us/products/1932656>

Technical data

Product properties

| | |
|---------------------------|-----------------------|
| Product type | PCB terminal block |
| Product family | MKDSP 25 |
| Product line | COMBICON Terminals XL |
| Type | Standard |
| Number of positions | 9 |
| Pitch | 15 mm |
| Number of connections | 9 |
| Number of rows | 1 |
| Number of potentials | 9 |
| Pin layout | Linear pinning |
| Solder pins per potential | 4 |

Electrical properties

Properties

| | |
|-----------------------------|--------|
| Nominal current I_N | 125 A |
| Nominal voltage U_N | 1000 V |
| Rated voltage (III/3) | 1000 V |
| Rated surge voltage (III/3) | 8 kV |
| Rated voltage (III/2) | 1000 V |
| Rated surge voltage (III/2) | 8 kV |
| Rated voltage (II/2) | 1000 V |
| Rated surge voltage (II/2) | 8 kV |

Connection data

Connection technology

| | |
|-----------------------|--------------------|
| Type | Standard |
| Nominal cross section | 35 mm ² |

Conductor connection

| | |
|---|--|
| Connection method | Screw connection with tension sleeve |
| Conductor cross-section rigid | 0.5 mm ² ... 35 mm ² |
| Conductor cross-section flexible | 0.5 mm ² ... 35 mm ² |
| Conductor cross-section AWG | 20 ... 2 |
| Conductor cross-section, flexible, with ferrule, without plastic sleeve | 1 mm ² ... 35 mm ² |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve | 1.5 mm ² ... 35 mm ² |
| 2 conductors with same cross section, rigid | 0.5 mm ² ... 6 mm ² |
| 2 conductors with same cross section, flexible | 0.5 mm ² ... 6 mm ² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.5 mm ² ... 4 mm ² |

MKDSP 25/ 9-15,00 - PCB terminal block



1932656

<https://www.phoenixcontact.com/us/products/1932656>

| | |
|---|--|
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 16 mm ² |
| Stripping length | 18 mm |
| Drive form screw head | Slotted Pozidriv (Z2L) |
| Tightening torque | 2.5 Nm ... 4.5 Nm (< 25 mm ² = 2.5 Nm, ≥ 25 mm ² = 4.5 Nm) |

Information on the aluminum conductor

| | |
|--|--|
| Cross section / torque / form of conductor | Cable cross section:35 mm ² ; Torque:4.5 Nm; Form of cable:round, single-strand, class 1(re) |
| Specification | DIN VDE 0276-603 (VDE 0276-603):2010-03 |
| Note on conductor pretreatment | The following measures are required for durable and reliable contacting of the aluminum conductor: the stripped end of the aluminum conductor must be separated from the oxide layer using a blade, and immediately dipped in non-acid and non-alkali Vaseline. The pretreatment must be repeated when connecting the conductors anew. |

Mounting

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

Material specifications

Material data - contact

| | |
|--|--|
| 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 (5 μm - 7 μm Sn) |
| Metal surface soldering area (top layer) | Tin (5 μm - 7 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 |

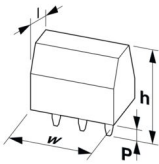
Dimensions

MKDSP 25/ 9-15,00 - PCB terminal block



1932656

<https://www.phoenixcontact.com/us/products/1932656>

| | |
|-----------------------|--|
| Dimensional drawing |  |
| Pitch | 15 mm |
| Width [w] | 135 mm |
| Height [h] | 43.5 mm |
| Length [l] | 31 mm |
| Installed height | 39 mm |
| Solder pin length [P] | 4.5 mm |
| Pin dimensions | 1.2 x 1.2 mm |

PCB design

| | |
|---------------|--------|
| Hole diameter | 1.6 mm |
|---------------|--------|

Mechanical tests

Test for conductor damage and slackening

| | |
|---------------|---------------------|
| Specification | IEC 60999-1:1999-11 |
| Result | Test passed |

Pull-out test

| | |
|---|---|
| Specification | IEC 60999-1:1999-11 |
| Conductor cross-section/conductor type/tractive force setpoint/actual value | 0.5 mm ² / solid / > 20 N |
| | 0.5 mm ² / flexible / > 20 N |
| | 35 mm ² / stranded / > 190 N |
| | 35 mm ² / flexible / > 190 N |

Electrical tests

Temperature-rise test

| | |
|-----------------------------------|--|
| Specification | IEC 60947-7-4:2013-08 |
| Requirement temperature-rise test | The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature. |

Short-time withstand current

| | |
|---------------|-----------------------|
| Specification | IEC 60947-7-4:2013-08 |
|---------------|-----------------------|

Insulation resistance

| | |
|--|-----------------------|
| Specification | IEC 60512-3-1:2002-02 |
| Insulation resistance, neighboring positions | > 5 MΩ |

Air clearances and creepage distances |

| | |
|---------------------------|----------------------------------|
| Specification | IEC 60947-1:2007-06 + A1:2010-12 |
| Insulating material group | I |

MKDSP 25/ 9-15,00 - PCB terminal block



1932656

<https://www.phoenixcontact.com/us/products/1932656>

| | |
|--|---------|
| Comparative tracking index (IEC 60112) | CTI 600 |
| Rated insulation voltage (III/3) | 1000 V |
| Rated surge voltage (III/3) | 8 kV |
| minimum clearance value - non-homogenous field (III/3) | 8 mm |
| minimum creepage distance (III/3) | 12.5 mm |
| Rated insulation voltage (III/2) | 1000 V |
| Rated surge voltage (III/2) | 8 kV |
| minimum clearance value - non-homogenous field (III/2) | 8 mm |
| minimum creepage distance (III/2) | 8 mm |
| Rated insulation voltage (II/2) | 1000 V |
| Rated surge voltage (II/2) | 8 kV |
| minimum clearance value - non-homogenous field (II/2) | 8 mm |
| minimum creepage distance (II/2) | 8 mm |

Environmental and real-life conditions

Vibration test

| | |
|------------------------|-----------------------------|
| Specification | IEC 60068-2-6:2007-12 |
| Frequency | 10 - 150 - 10 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 0.35 mm (10 Hz ... 60.1 Hz) |
| Acceleration | 5g (60.1 Hz ... 150 Hz) |
| Test duration per axis | 2.5 h |
| Test directions | X-, Y- and Z-axis |

Glow-wire test

| | |
|------------------|------------------------|
| Specification | IEC 60695-2-10:2000-10 |
| Temperature | 850 °C |
| Time of exposure | 5 s |

Aging

| | |
|---------------|-----------------------|
| Specification | IEC 60947-7-4:2013-08 |
|---------------|-----------------------|

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) | -40 °C ... 100 °C (Depending on the current carrying capacity/derating curve) |

Packaging specifications

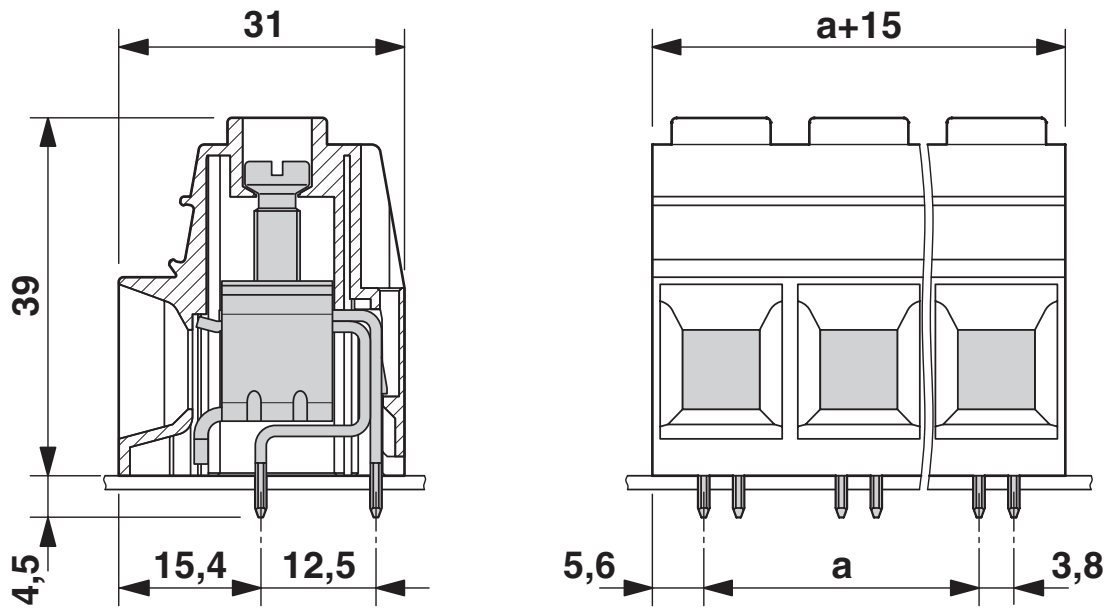
| | |
|-------------------|---------------------|
| Type of packaging | packed in cardboard |
|-------------------|---------------------|

1932656

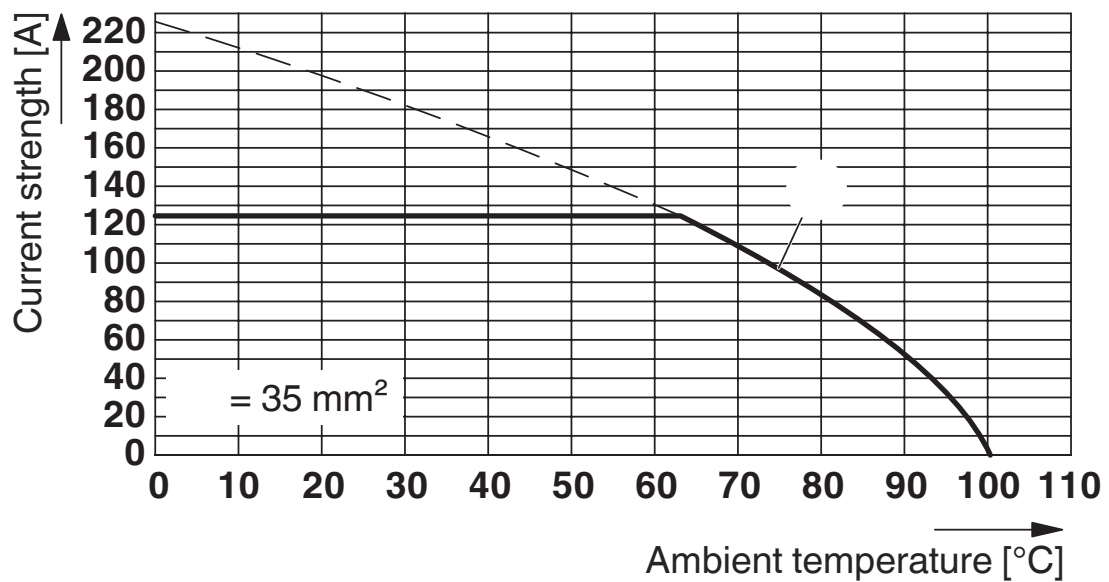
<https://www.phoenixcontact.com/us/products/1932656>

Drawings

Dimensional drawing



Diagram



Type: MKDSP 25/...-15,00(-F)

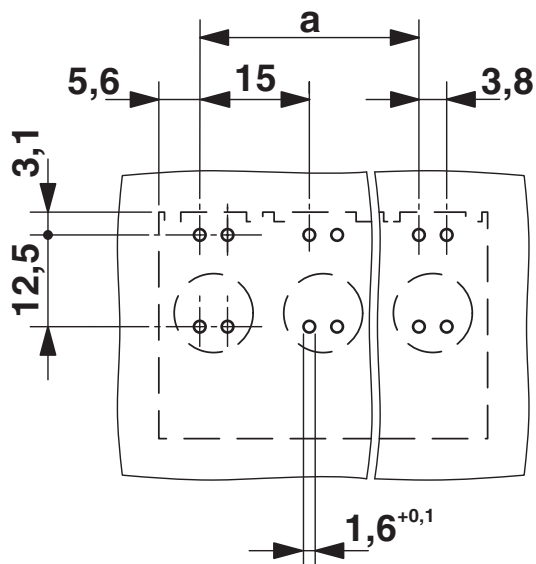
MKDSP 25/ 9-15,00 - PCB terminal block

1932656

<https://www.phoenixcontact.com/us/products/1932656>



Drilling plan/solder pad geometry



MKDSP 25/ 9-15,00 - PCB terminal block




1932656

<https://www.phoenixcontact.com/us/products/1932656>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1932656>

|  cULus Recognized Approval ID: E60425-19770427 | | | | |
|---|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| B | 600 V | 115 A | 20 - 2 | - |
| C | 600 V | 115 A | 20 - 2 | - |

|  VDE approval of drawings Approval ID: 40041859 | | | | |
|--|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | 1000 V | 125 A | - | 0.5 - 35 |

MKDSP 25/ 9-15,00 - PCB terminal block



1932656

<https://www.phoenixcontact.com/us/products/1932656>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

MKDSP 25/ 9-15,00 - PCB terminal block



1932656

<https://www.phoenixcontact.com/us/products/1932656>

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