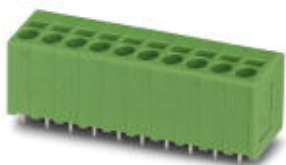


SPT 2,5/21-V-5,0MC BN/BU/YE/GN - 1704409

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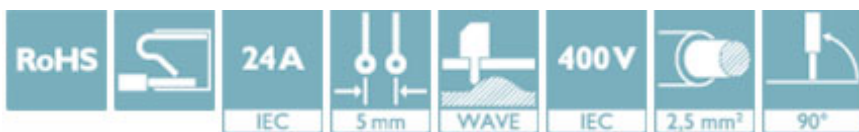
PCB terminal block, nominal current: 24 A, nom. voltage: 400 V, pitch: 5 mm, number of positions: 21, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 90 °, color: multi-color



The figure shows a 10-position version of the product

Your advantages

- ✓ Time saving push-in connection, tools not required
- ✓ Defined contact force ensures that contact remains stable over the long term
- ✓ Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- ✓ Operation and conductor connection from one direction enable integration into front of device
- ✓ Two solder pins reduce the mechanical strain on the soldering spots



Key Commercial Data

| | |
|--------------|---------------|
| Packing unit | 50 pc |
| GTIN | |
| GTIN | 4046356707985 |

Technical data

Item properties

| | |
|---------------------------|---------------------------|
| Brief article description | PCB terminal block |
| Range of articles | SPT 2,5/..-V |
| Pitch | 5 mm |
| Number of positions | 21 |
| Connection method | Push-in spring connection |
| Mounting type | Wave soldering |
| Pin layout | Linear double pinning |
| Number of levels | 1 |

Electrical parameters

| | |
|---------------|------|
| Rated current | 24 A |
|---------------|------|

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Technical data

Electrical parameters

| | |
|----------------------------------|-------|
| Rated insulation voltage (III/2) | 400 V |
| Rated surge voltage (III/2) | 4 kV |

Connection capacity

| | |
|---|--|
| Conductor cross section solid | 0.2 mm ² ... 4 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section AWG / kcmil | 24 ... 12 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm ² ... 2.5 mm ² (Stripping length 8 mm) |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm ² ... 1.5 mm ² (Stripping length 8 mm) |
| Stripping length | 10 mm |

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 | hot-dip tin-plated |
| Metal surface terminal point (top layer) | Tin (4 - 8 µm Sn) |
| Metal surface soldering area (top layer) | Tin (4 - 8 µm Sn) |

Material data - housing

| | |
|---|--------|
| 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 for the product

| | |
|-----------------------------|--------------|
| Length [l] | 13.5 mm |
| Width [w] | 106.4 mm |
| Height [h] | 16.9 mm |
| Pitch | 5 mm |
| Height (without solder pin) | 14.4 mm |
| Solder pin [P] | 2.5 mm |
| Pin spacing | 8.2 mm |
| Pin dimensions | 0.8 x 0.8 mm |
| Dimension a | 100 mm |

Dimensions for PCB design

| | |
|---------------|--------|
| Hole diameter | 1.1 mm |
| Pin spacing | 8.2 mm |

Packaging information

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Technical data

Packaging information

| | |
|----------------------------|---------------------|
| Type of packaging | packed in cardboard |
| Pieces per package | 50 |
| Denomination packing units | Pcs. |

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Ambient temperature (assembly) | -5 °C ... 100 °C |
| Ambient temperature (operation) | -40 °C |

Termination and connection method

| | |
|-----------------|-----------------------|
| Connection test | IEC 60998-2-2:2002-12 |
| Test result | Test passed |

Pull-out test

| | |
|--|---|
| Pull-out test | IEC 60998-2-2:2002-12 |
| | Test passed |
| Conductor cross section / conductor type / tensile force | 0.2 mm ² / solid / > 10 N |
| | 0.2 mm ² / flexible / > 10 N |
| | 4 mm ² / solid / > 60 N |
| | 2.5 mm ² / flexible / > 50 N |

Mechanical tests according to standard

| | |
|--------------------|--------------------------|
| Test specification | IEC 60998-2-2 (in parts) |
|--------------------|--------------------------|

Electrical tests

| | |
|----------------------------------|-------|
| Rated current | 24 A |
| Rated insulation voltage (III/2) | 400 V |
| Rated surge voltage (III/2) | 4 kV |

Air clearances and creepage distances

| | |
|----------------------------------|-------|
| Insulating material group | I |
| Voltage | 250 V |
| Rated insulation voltage (III/3) | 250 V |
| Rated insulation voltage (III/2) | 400 V |
| Rated insulation voltage (II/2) | 630 V |
| Rated surge voltage (III/3) | 4 kV |
| Rated surge voltage (III/2) | 4 kV |
| Rated surge voltage (II/2) | 4 kV |

Current carrying capacity / derating curves

| | |
|---------------|--------------------------|
| Specification | IEC 60998-2-2 (in parts) |
|---------------|--------------------------|

Vibration test

| | |
|---|---|
| Resistance to ageing, to humidity conditions, to ingress of solid objects and to harmful ingress of water | Test passed IEC 60998-1:2002-12 168 h/100°C 48 h/30 °C/92 % |
| Test result | Test passed |

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Technical data

Vibration test

| | |
|--------------------|---------------------|
| Test specification | IEC 60998-1:2002-12 |
| Dry heat | 168 h/100°C |
| Humid heat | 48 h/30 °C/92 % |

Resistance to ageing, humidity and penetration of solids

| | |
|--------------------|---------------------|
| Test result | Test passed |
| Test specification | IEC 60998-1:2002-12 |
| Dry heat | 168 h/100°C |
| Humid heat | 48 h/30 °C/92 % |

Standards and Regulations

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

Environmental Product Compliance

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

Approvals

Approvals


Approvals

CCA / IECCEB CB Scheme / SEV / EAC / cULus Recognized

Ex Approvals

Approval details


| | |
|----------------------------|---------|
| CCA | IK-2956 |
| Nominal voltage UN | 250 V |
| Nominal current IN | 24 A |
| mm ² /AWG/kcmil | 2.5 |


| | | | |
|--------------------|---|---|---------|
| IECEE CB Scheme |  | http://www.iecee.org/ | CH-7429 |
| Nominal voltage UN | 250 V | | |
| Nominal current IN | 24 A | | |


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Approvals

| | |
|---------------|-----|
| mm²/AWG/kcmil | 2.5 |
|---------------|-----|

| | | | |
|--------------------|---|---|---------|
| SEV |  | https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html | IK-3150 |
| Nominal voltage UN | 250 V | | |
| Nominal current IN | 24 A | | |
| mm²/AWG/kcmil | 2.5 | | |

| | | |
|-----|---|---------|
| EAC |  | B.01742 |
|-----|---|---------|

| | | | |
|--------------------|--|---|-----------------|
| cULus Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E60425-20061129 |
| | D | B | |
| Nominal voltage UN | 300 V | 300 V | |
| Nominal current IN | 10 A | 20 A | |
| mm²/AWG/kcmil | 24-12 | 24-12 | |

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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Доставку товара в любую точку России и стран СНГ.
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- Формирование склада под заказчика.
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- Тестирование поставляемой продукции.
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- Входной контроль качества.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
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