

SPT 16/ 5-V-10,0-ZBMCBDMC-PESO - 1704763

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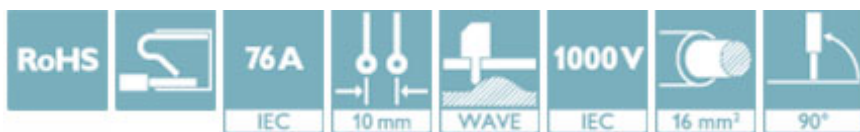


PCB terminal block, nominal current: 76 A, nom. voltage: 1000 V, pitch: 10 mm, number of positions: 5, connection method: Push-in spring connection, mounting: Wave soldering, color: multi-color

The figure shows a 5-position version

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
- ✓ Unrestricted 600-V-UL approval thanks to compact zig-zag pinning
- ✓ Vertical connection enables multi-row arrangement on the PCB



Key Commercial Data

| | |
|--------------|---------------|
| Packing unit | 50 pc |
| GTIN | |
| GTIN | 4046356737777 |

Technical data

Item properties

| | |
|---------------------------|---------------------------|
| Brief article description | PCB terminal block |
| Range of articles | SPT 16/..-V |
| Pitch | 10 mm |
| Number of positions | 5 |
| Connection method | Push-in spring connection |
| Mounting type | Wave soldering |
| Pin layout | Zigzag pinning W |
| Number of levels | 1 |

Electrical parameters

| | |
|---------------|------|
| Rated current | 76 A |
|---------------|------|

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Technical data

Electrical parameters

| | |
|----------------------------------|--------|
| Rated insulation voltage (III/2) | 1000 V |
| Rated surge voltage (III/2) | 8 kV |

Connection capacity

| | |
|--|---|
| Conductor cross section solid | 0.75 mm ² ... 16 mm ² |
| Conductor cross section flexible | 0.75 mm ² ... 16 mm ² |
| Conductor cross section AWG / kcmil | 20 ... 4 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.75 mm ² ... 16 mm ² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.75 mm ² ... 10 mm ² |
| 2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve | 0.75 mm ² ... 4 mm ² |
| Stripping length | 18 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 (10 - 16 µm Sn) |
| Metal surface soldering area (top layer) | Tin (10 - 16 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] | 24.7 mm |
| Width [w] | 51.8 mm |
| Height [h] | 35.4 mm |
| Pitch | 10 mm |
| Height (without solder pin) | 31.3 mm |
| Solder pin [P] | 4.1 mm |
| Pin spacing | 15 mm |
| Pin dimensions | 1.2 x 1 mm |
| Dimension a | 40 mm |

Dimensions for PCB design

| | |
|---------------|--------|
| Hole diameter | 1.7 mm |
| Pin spacing | 15 mm |

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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 | 0.75 mm ² / solid / > 30 N |
| | 0.75 mm ² / flexible / > 30 N |
| | 16 mm ² / solid / > 100 N |
| | 16 mm ² / flexible / > 100 N |

Mechanical tests according to standard

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

Electrical tests

| | |
|----------------------------------|--------|
| Rated current | 76 A |
| Rated insulation voltage (III/2) | 1000 V |
| Rated surge voltage (III/2) | 8 kV |

Air clearances and creepage distances

| | |
|----------------------------------|--------|
| Insulating material group | I |
| Voltage | 1000 V |
| Rated insulation voltage (III/3) | 1000 V |
| Rated insulation voltage (III/2) | 1000 V |
| Rated insulation voltage (II/2) | 1000 V |
| Rated surge voltage (III/3) | 8 kV |
| Rated surge voltage (III/2) | 8 kV |
| Rated surge voltage (II/2) | 6 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

IECEE CB Scheme / SEV / EAC / cULus Recognized

Ex Approvals

Approval details


| | | | |
|--------------------|---|---|---------|
| IECEE CB Scheme |  | http://www.iecee.org/ | CH-8077 |
| Nominal voltage UN | 1000 V | | |
| Nominal current IN | 76 A | | |


| | | | |
|--------------------|---|---|---------|
| SEV |  | https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html | IK-3431 |
| Nominal voltage UN | 1000 V | | |

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Approvals

| | |
|----------------------------|------|
| | |
| Nominal current IN | 76 A |
| mm ² /AWG/kcmil | 16 |

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

| | | | |
|----------------------------|---|---|-----------------|
| cULus Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E60425-20061129 |
| | B | C | |
| Nominal voltage UN | 600 V | 600 V | |
| Nominal current IN | 66 A | 66 A | |
| mm ² /AWG/kcmil | 20-4 | 20-4 | |

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