

FRONT 2,5-V/SA10- 3 BK NZB80-1 - 1711049

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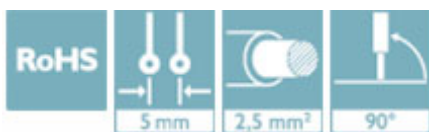


PCB terminal block, nom. voltage: 400 V, pitch: 5 mm, number of positions: 3, color: black


The figure shows a 1-pos. version of the product

Your advantages

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Allows connection of two conductors
- Operation and conductor connection from one direction enable integration into front of device
- Two solder pins reduce the mechanical strain on the soldering spots
- The latching on the side enables various numbers of positions to be combined



Key Commercial Data

| | |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 20 pc |
| GTIN |  4 055626 211053 |
| GTIN | 4055626211053 |

Technical data

Item properties

| | |
|---------------------------|------------------------|
| Brief article description | PCB terminal block |
| Range of articles | FRONT 2,5-V/SA10 |
| Pitch | 5 mm |
| Number of positions | 3 |
| Connection method | Front screw connection |
| Mounting type | Wave soldering |
| 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 ... 2.5 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section AWG / kcmil | 24 ... 14 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm ² ... 1.5 mm ² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm ² ... 1.5 mm ² |
| 2 conductors with same cross section, solid | 0.2 mm ² ... 0.75 mm ² |
| 2 conductors with same cross section, flexible | 0.2 mm ² ... 0.75 mm ² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve | 0.25 mm ² ... 0.34 mm ² |
| Stripping length | 9 mm |
| Torque | 0.4 Nm ... 0.5 Nm |

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

| | |
|----------------|--------------|
| Pitch | 5 mm |
| Pin dimensions | 0.8 x 0.8 mm |

Packaging information

| | |
|----------------------------|---------------------|
| Type of packaging | packed in cardboard |
| Pieces per package | 20 |
| Denomination packing units | Pcs. |

Ambient conditions

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

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Ambient conditions

| | |
|---------------------------------|--------|
| Ambient temperature (operation) | -40 °C |
|---------------------------------|--------|

Termination and connection method

| | |
|------------------------------------------|---------------------|
| Test for conductor damage and slackening | IEC 60999-1:1999-11 |
| | Test passed |

Pull-out test

| | |
|----------------------------------------------------------|-----------------------------------------|
| Pull-out test | IEC 60999-1:1999-11 |
| | Test passed |
| Conductor cross section / conductor type / tensile force | 0.2 mm ² / solid / > 10 N |
| | 0.2 mm ² / flexible / > 10 N |
| | 2.5 mm ² / flexible / > 50 N |
| | 2.5 mm ² / solid / > 50 N |

Mechanical tests according to standard

| | |
|--------------------|---------------|
| Test specification | IEC 60947-7-4 |
|--------------------|---------------|

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 |
| 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 60947-7-4 |
|---------------|---------------|

Environmental Product Compliance

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

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