

## FRONT 4-V-7,62-10 6PA BD:1-10 - 1706780

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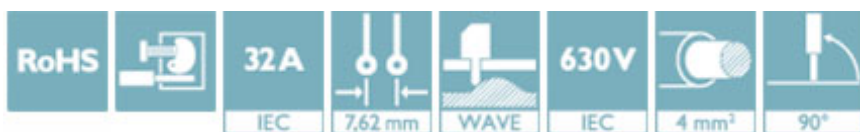


PCB terminal block, nominal current: 32 A, nom. voltage: 630 V, pitch: 7.62 mm, number of positions: 10, connection method: Front screw connection, mounting: Wave soldering, conductor/PCB connection direction: 90 °, color: green

The figure shows a 5-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



### Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 10 pc                                                                                |
| GTIN         |  |
| GTIN         | 4046356880749                                                                        |

### Technical data

#### Item properties

|                           |                        |
|---------------------------|------------------------|
| Brief article description | PCB terminal block     |
| Range of articles         | FRONT 4-V              |
| Pitch                     | 7.62 mm                |
| Number of positions       | 10                     |
| Connection method         | Front screw connection |
| Screw thread              | M3                     |
| Mounting type             | Wave soldering         |
| Pin layout                | Linear double pinning  |
| Number of levels          | 1                      |

#### Electrical parameters

|               |      |
|---------------|------|
| Rated current | 32 A |
|---------------|------|

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## Technical data

### Electrical parameters

|                                  |       |
|----------------------------------|-------|
| Rated insulation voltage (III/2) | 630 V |
| Rated surge voltage (III/2)      | 6 kV  |

### Connection capacity

|                                                                                        |                                             |
|----------------------------------------------------------------------------------------|---------------------------------------------|
| Conductor cross section solid                                                          | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>   |
| Conductor cross section flexible                                                       | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>   |
| Conductor cross section AWG / kcmil                                                    | 20 ... 10                                   |
| Conductor cross section flexible, with ferrule without plastic sleeve                  | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Conductor cross section, flexible, with ferrule, with plastic sleeve                   | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| 2 conductors with same cross section, solid                                            | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| 2 conductors with same cross section, flexible                                         | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve        | 0.25 mm <sup>2</sup> ... 1 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve | 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup>   |
| Stripping length                                                                       | 14 mm                                       |
| Torque                                                                                 | 0.5 Nm ... 0.6 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 (5 - 7 µm Sn)                                                                 |
| Metal surface soldering area (top layer) | Tin (5 - 7 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 ]                | 27 mm      |
| Pitch                       | 7.62 mm    |
| Height (without solder pin) | 26 mm      |
| Solder pin [ P ]            | 5 mm       |
| Pin dimensions              | 1 x 0.8 mm |
| Dimension a                 | 76.2 mm    |

### Dimensions for PCB design

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## Technical data

### Dimensions for PCB design

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

### Packaging information

|                            |                     |
|----------------------------|---------------------|
| Type of packaging          | packed in cardboard |
| Pieces per package         | 10                  |
| Denomination packing units | Pcs.                |

### Electrical tests

|                                  |       |
|----------------------------------|-------|
| Rated current                    | 32 A  |
| Rated insulation voltage (III/2) | 630 V |
| Rated surge voltage (III/2)      | 6 kV  |

### Air clearances and creepage distances

|                                  |        |
|----------------------------------|--------|
| Insulating material group        | I      |
| Voltage                          | 500 V  |
| Rated insulation voltage (III/3) | 500 V  |
| Rated insulation voltage (III/2) | 630 V  |
| Rated insulation voltage (II/2)  | 1000 V |
| Rated surge voltage (III/3)      | 6 kV   |
| Rated surge voltage (III/2)      | 6 kV   |
| Rated surge voltage (II/2)       | 6 kV   |

### Standards and Regulations

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

### Environmental Product Compliance

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

## Approvals

### Approvals

#### Approvals

DNV GL / CSA / RS / EAC / cULus Recognized

#### Ex Approvals

### Approval details

|        |                                                                           |            |
|--------|---------------------------------------------------------------------------|------------|
| DNV GL | <a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a> | TAE00001EV |
|--------|---------------------------------------------------------------------------|------------|

## FRONT 4-V-7,62-10 6PA BD:1-10 - 1706780

### Approvals

|                    |                                                                                   |                                                                                                                                         |       |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                    | D                                                                                 | B                                                                                                                                       |       |
| Nominal voltage UN | 300 V                                                                             | 300 V                                                                                                                                   |       |
| Nominal current IN | 10 A                                                                              | 30 A                                                                                                                                    |       |
| mm²/AWG/kcmil      | 22-10                                                                             | 22-10                                                                                                                                   |       |

|    |                                                                                   |                                                                                             |              |
|----|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------|
| RS |  | <a href="http://www.rs-head.spb.ru/en/index.php">http://www.rs-head.spb.ru/en/index.php</a> | 17.00014.272 |
|----|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------|

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

|                    |                                                                                     |                                                                                                                                                       |                 |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| cULus Recognized   |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E60425-19860303 |
|                    | D                                                                                   | B                                                                                                                                                     |                 |
| Nominal voltage UN | 300 V                                                                               | 300 V                                                                                                                                                 |                 |
| Nominal current IN | 10 A                                                                                | 30 A                                                                                                                                                  |                 |
| mm²/AWG/kcmil      | 24-10                                                                               | 24-10                                                                                                                                                 |                 |

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