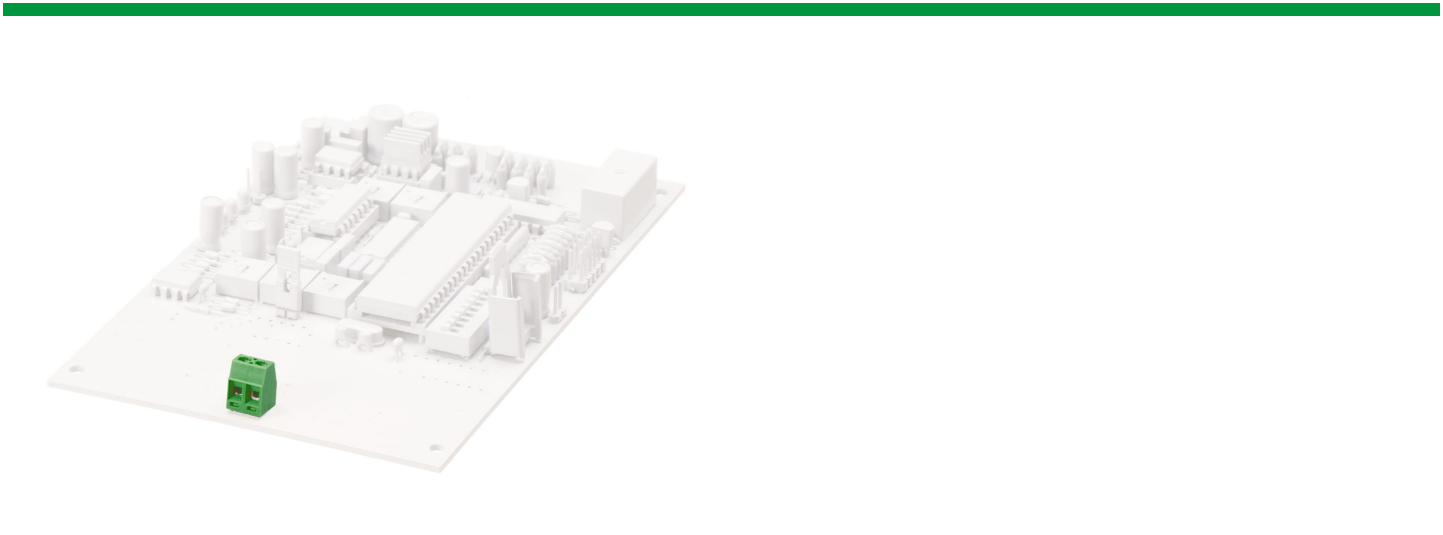


# Data sheet

## 12878.1 PKZ 602/2/3,81-V GN



PCB terminal, Screw connection, No. of poles: 2, Width: 7.62 mm, Colour: Green

### Business data

|                                            |                     |
|--------------------------------------------|---------------------|
| Article number                             | 12878.1             |
| Article name                               | PKZ 602/2/3,81-V GN |
| GTIN (EAN)                                 | 4044211039288       |
| Packaging unit                             | 50                  |
| Quantity unit                              | PC                  |
| Packaging type                             | Carton              |
| Type of banding                            | Without             |
| Weight per piece (not including packaging) | 1.2 g               |
| Weight per piece (including packaging)     | 1.66 g              |
| Unit of weight                             | G                   |
| Customs number                             | 85369010            |
| Country of origin                          | TN                  |
| Colour                                     | Green               |

### Technical data

#### Dimensions

|                            |          |
|----------------------------|----------|
| Length                     | 7.3 mm   |
| Length of the pin          | 3.26 mm  |
| Width                      | 7.62 mm  |
| Width left                 | 1.905 mm |
| Width right                | 1.905 mm |
| Height                     | 10 mm    |
| Drill hole diameter        | 1.1 mm   |
| Diameter of connecting pin | 0.88 mm  |
| Pitch                      | 3.81 mm  |

#### Ratings

|                       |                   |
|-----------------------|-------------------|
| Rated voltage         | 130 V             |
| Rated current         | 13.5 A            |
| Rated cross-section   | 1 mm <sup>2</sup> |
| Rated impulse voltage | 1.25 kV           |
| Overvoltage category  | III               |
| Contamination degree  | 3                 |

### Technical data

#### Connection data

|                                                         |                      |
|---------------------------------------------------------|----------------------|
| Connection principle                                    | Screw connection     |
| Connection type of PCB                                  | Solder connection    |
| Type of attachment to circuit board                     | Connecting contact   |
| Angle of PCB/wire connection                            | 0°/180° (horizontal) |
| No. of poles                                            | 2                    |
| Number of levels                                        | 1                    |
| Wire cross-section single-core (rigid) / stranded, min. | 0.14 mm <sup>2</sup> |
| Wire cross-section single core (rigid)/stranded, max.   | 1.5 mm <sup>2</sup>  |
| Wire cross-section stranded, min.                       | 0.14 mm <sup>2</sup> |
| Wire cross-section stranded, max.                       | 1 mm <sup>2</sup>    |
| Wire cross-section stranded with wire-end ferrules,min. | 0.25 mm <sup>2</sup> |
| Wire cross-section stranded with wire-end ferrules,max. | 0.5 mm <sup>2</sup>  |
| Wire cross-section AWG, min.                            | 30                   |
| Wire cross-section AWG, max.                            | 16                   |
| Stripping length                                        | 5 mm                 |
| Screw threading                                         | M 2                  |
| Torque                                                  | 0.2 Nm               |

#### Materials

|                           |               |
|---------------------------|---------------|
| Insulation housing        | Polyamide 6.6 |
| Flammability class UL 94  | V-0           |
| Working temperature, min. | -30 °C        |
| Working temperature, max. | 105 °C        |
| Clamping element          | Brass         |
| Screws                    | Bronze        |
| Soldering lug             | Copper alloy  |

### Technical data

#### Further technical data

|                                                |                             |
|------------------------------------------------|-----------------------------|
| Storage temperature, min.                      | -40 °C                      |
| Storage temperature, max.                      | 105 °C                      |
| Insulation resistance                          | 1*10 <sup>13</sup> Ohm x cm |
| Creepage-current resistance                    | CTI 600                     |
| Glow wire flammability index GWFI              | GWFI 850                    |
| GWFI after-glow time                           | 30 Sek.                     |
| Glow wire ignition temperature GWIT            | GWIT 775 °C                 |
| GWIT exposure time                             | 5 Sek.                      |
| Connection cycles, in compliance with standard | 5                           |
| Recommended wave soldering temperature         | 265 °C                      |
| Recommended wave soldering duration, min.      | 3 Sek.                      |
| Recommended wave soldering duration, max.      | 4 Sek.                      |

#### Environmental Product Compliance

|                                |            |
|--------------------------------|------------|
| REACH Conform                  | No         |
| REACH Reference date           | 2023-06-14 |
| REACH Candidate Substance Note | No         |
| REACH CAS 1 Substance          | LEAD       |
| REACH CAS 1 Percent minimal    | 0.1 %      |
| REACH CAS 1 Percent maximum    | 4 %        |
| REACH CAS 1 Number             | 7439-92-1  |
| RoHS Conform                   | yes        |
| RoHS Exception rule            | 6c         |

### Approvals

#### cUL Recognized

|                                                      |              |
|------------------------------------------------------|--------------|
| cUL approval                                         | C22.2 No 158 |
| cUL Usegroup B: rated voltage                        | 300 V        |
| cUL Usegroup B: rated current                        | 10 A         |
| cUL wire cross-section single-core (rigid) AWG, min. | 30           |
| cUL wire cross-section single-core (rigid) AWG, max. | 16           |
| cUL wire cross-section stranded AWG, min.            | 30           |
| cUL wire cross-section stranded AWG, max.            | 16           |
| cUL torque                                           | 0.25 Nm      |
| cUL wire material                                    | Cu           |
| cUL Recognized                                       | 1            |

#### UL Recognized

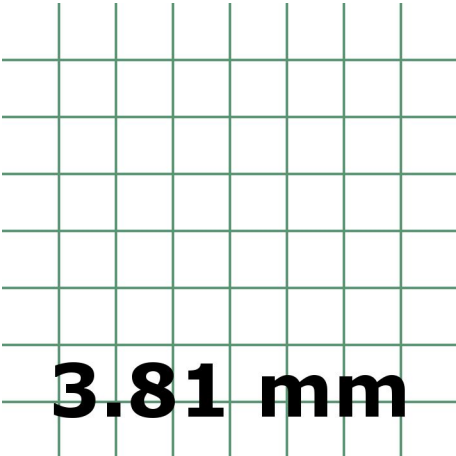
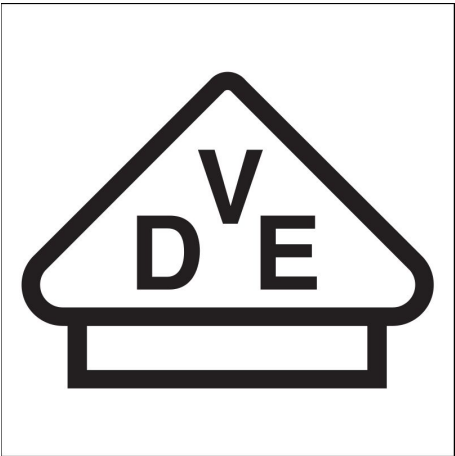
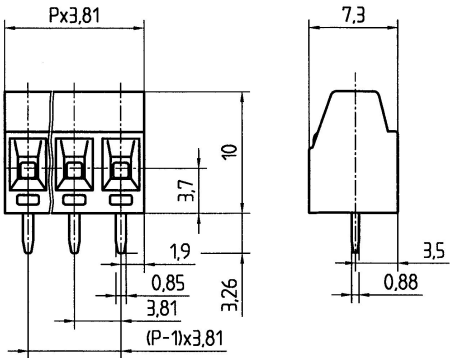
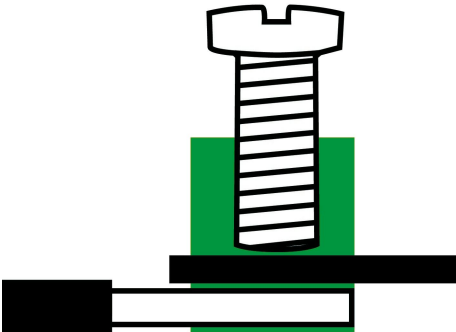
|                                                     |            |
|-----------------------------------------------------|------------|
| UL approval                                         | UL 1059    |
| UL Usegroup B: rated voltage                        | 300 V      |
| UL Usegroup B: rated current                        | 10 A       |
| UL wire cross-section single-core (rigid) AWG, min. | 30         |
| UL wire cross-section single-core (rigid) AWG, max. | 16         |
| UL wire cross-section stranded AWG, min.            | 30         |
| UL wire cross-section stranded AWG, max.            | 16         |
| UL torque                                           | 2.21 Lb In |
| UL wire material                                    | Cu         |
| UL factory wiring                                   | 1          |
| UL field wiring                                     | 1          |
| UL Recognized                                       | 1          |

### Approvals

#### VDE approval

|                                                     |                     |
|-----------------------------------------------------|---------------------|
| VDE approval                                        | DIN EN 60998        |
| VDE approval granted                                | yes                 |
| VDE rated voltage                                   | 130 V               |
| VDE rated current                                   | 13.5 A              |
| VDE rated current wire cross-section rigid, max.    | 13.5 A              |
| VDE rated current wire cross-section stranded, max. | 13.5 A              |
| VDE rated impulse voltage                           | 1.25 kV             |
| VDE wire cross-section rigid, min.                  | 0.5 mm <sup>2</sup> |
| VDE wire cross-section rigid, max.                  | 1 mm <sup>2</sup>   |
| VDE wire cross-section stranded, min.               | 0.5 mm <sup>2</sup> |
| VDE wire cross-section stranded, max.               | 1 mm <sup>2</sup>   |
| VDE screw threading                                 | M 2                 |
| VDE torque                                          | 0.2 Nm              |
| VDE overvoltage category                            | III                 |
| VDE contamination degree                            | 3                   |

Media



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**Accessories**

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