

Data sheet | Item number: 2086-1110/700-000/997-607

SMD PCB terminal block; push-button; 1.5 mm²; Pin spacing 3.5 mm; 10-pole; Push-in CAGE CLAMP®; 1,50 mm²; black



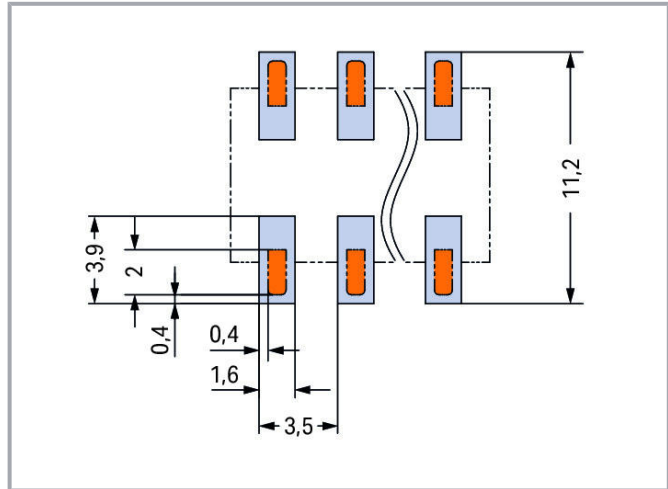
www.wago.com/2086-1110/700-000/997-607



Subject to changes. Please also observe the further product documentation!

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
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Dimensions in mm

$L = (\text{pole no.} - 1) \times \text{pin spacing} + 4.2 \text{ mm}$

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Dimensions in mm

W = Tape width

R = Feed direction

Pole No. 2: Z = 11.5 mm

Pole No. 3 ... 5: Z = 12.4 mm

Pole No. 6 ... 12: Z = 26.2 mm

Item description

- Ideal for compact device connection, panel feedthrough and tight spaces
- Push-in CAGE CLAMP® allows push-in termination of solid and fine-stranded conductors with ferrules
- SMD and THR variants available
- Delivery in tape-and-reel packaging for full integration into SMT soldering process
- Push-button moves in direction of conductor connection

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- Conductor connection and mating direction both parallel and perpendicular to the PCB

Data

Electrical data

IEC Approvals

| Ratings per | IEC/EN 60664-1 |
|-----------------------------|---|
| Rated voltage (III / 3) | 160 V |
| Rated surge voltage (III/3) | 2.5 kV |
| Rated voltage (III/2) | 160 V |
| Rated surge voltage (III/2) | 2.5 kV |
| Nominal voltage (II/2) | 320 V |
| Rated surge voltage (II/2) | 2.5 kV |
| Rated current | 17.5 A |
| Legend (ratings) | (III / 2) ≙ Overvoltage category III / Pollution degree 2 |

UL Approvals

| Approvals per | UL 1059 |
|--------------------------------|---------|
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 10 A |
| Rated voltage UL (Use Group C) | 300 V |
| Rated current UL (Use Group C) | 10 A |
| Rated voltage UL (Use Group D) | 300 V |
| Rated current UL (Use Group D) | 10 A |

CSA Approvals

| Approvals per | CSA |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 10 A |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A |

Connection data

| | |
|----------------------------|----|
| Total number of potentials | 10 |
| Number of connection types | 1 |
| Number of levels | 1 |

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Connection 1

| | |
|---|--|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Push-button |
| Solid conductor | 0.14 ... 1.5 mm ² / 24 ... 16 AWG |
| Fine-stranded conductor | 0.14 ... 1.5 mm ² / 24 ... 16 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.25 ... 0.75 mm ² |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1.5 mm ² |
| Strip length | 8 ... 9 mm / 0.31 ... 0.35 inch |
| Conductor connection direction to PCB | 90° |
| Number of poles | 10 |

Physical data

| | |
|--|-----------------------|
| Pin spacing | 3.5 mm / 0.138 inch |
| Width | 37.7 mm / 1.406 inch |
| Height | 13.85 mm / 0.545 inch |
| Depth | 7.8 mm / 0.307 inch |
| Reel diameter of tape-and-reel packaging | 380 mm |
| Tape width | 56 mm |

PCB contact

| | |
|-------------------------------------|--|
| PCB Contact | SMD |
| Solder pin arrangement | Over the entire terminal strip (in-line) |
| Number of solder pins per potential | 2 |

Material data

| | |
|--------------------------|--|
| Color | black |
| Insulation material | Polyphthalamide (PPA GF) |
| Clamping spring material | Chrome nickel spring steel (CrNi) |
| Contact material | Electrolytic copper (E _{Cu}) |
| Contact plating | Tin-plated |
| Fire load | 0.003 MJ |
| Weight | 7.1 g |

Environmental requirements

| | |
|-------------------------|-----------------|
| Limit temperature range | -60 ... +105 °C |
|-------------------------|-----------------|

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Commercial data

| | |
|-----------------------|------------------|
| PU (SPU) | 1080 (270) Stück |
| Packaging type | box |
| Country of origin | CH |
| GTIN | 4055144108354 |
| Customs tariff number | 85369010000 |

Optional accessories

Ferrules

| Ferrule | | |
|--|--|--|
|  Item no.: 216-101 Ferrule; Sleeve for 0.5 mm ² / AWG 22; uninsulated; electro-tin plated; silver-colored | | www.wago.com/216-101 |
|  Item no.: 216-104 Ferrule; Sleeve for 1.5 mm ² / AWG 16; uninsulated; electro-tin plated; silver-colored | | www.wago.com/216-104 |
|  Item no.: 216-102 Ferrule; Sleeve for 0.75 mm ² / AWG 20; uninsulated; electro-tin plated; silver-colored | | www.wago.com/216-102 |
|  Item no.: 216-103 Ferrule; Sleeve for 1 mm ² / AWG 18; uninsulated; electro-tin plated | | www.wago.com/216-103 |
|  Item no.: 216-142 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 | | www.wago.com/216-142 |
|  Item no.: 216-132 Ferrule; Sleeve for 0.34 mm ² / AWG 24; uninsulated; electro-tin plated | | www.wago.com/216-132 |
|  Item no.: 216-121 Ferrule; Sleeve for 0.5 mm ² / AWG 22; uninsulated; electro-tin plated; silver-colored | | www.wago.com/216-121 |
|  Item no.: 216-143 Ferrule; Sleeve for 1 mm ² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 | | www.wago.com/216-143 |
|  Item no.: 216-131 Ferrule; Sleeve for 0.25 mm ² / AWG 24; uninsulated; electro-tin plated; silver-colored | | www.wago.com/216-131 |
|  Item no.: 216-141 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 | | www.wago.com/216-141 |
|  Item no.: 216-152 Ferrule; Sleeve for 0.34 mm ² / AWG 24; uninsulated; electro-tin plated | | www.wago.com/216-152 |
|  Item no.: 216-202 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; gray | | www.wago.com/216-202 |
|  Item no.: 216-151 | | |

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Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated

www.wago.com/216-151

Item no.: 216-144

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored

www.wago.com/216-144

Item no.: 216-201

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white

www.wago.com/216-201

Item no.: 216-241

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white

www.wago.com/216-241

Item no.: 216-242

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

www.wago.com/216-242

Item no.: 216-301

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

www.wago.com/216-301

Item no.: 216-302

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; green

www.wago.com/216-302

Tools

Operating tool

Item no.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719

Testing accessories

Testing accessories

Item no.: 735-500

Test pin; 1 mm Ø; with solder connection for test wire

www.wago.com/735-500

Item no.: 859-500

Test pin; 1 mm Ø; with solder connection for test wire

www.wago.com/859-500

Downloads

Documentation

Additional Information

Technical explanations

Apr 3, 2019

pdf
2.0 MB

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2086-1110/700-000/997-607

URL

Download

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Installation Notes

Conductor termination



Inserting solid conductor via push-in termination.

Conductor removal



Removing fine-stranded conductors via push-buttons.

Conductor termination

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Inserting and removing fine-stranded conductors via push-buttons.

Testing



Testing via 1 mm Ø test pin.

Touch contact with current bar.

Marking



Pole marking via direct marking perpendicular to conductor entry.

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