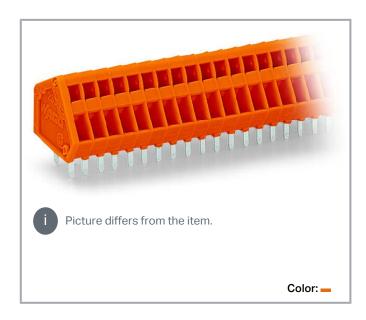
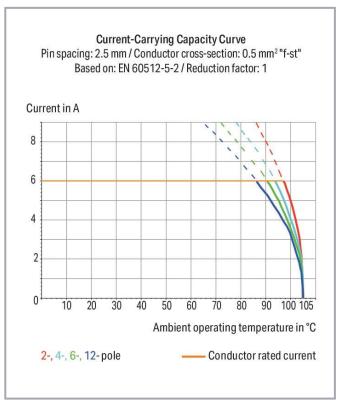
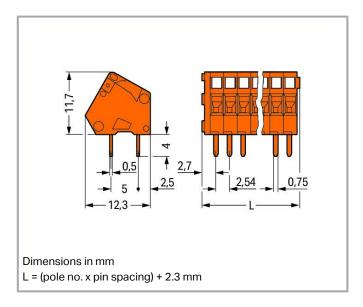
PCB terminal block; 0.5 mm²; Pin spacing 2.54 mm; 8-pole; CAGE CLAMP[®]; 0,50 mm²; orange











 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Item description

- Compact terminal strips with CAGE CLAMP connection and screwdriver actuation parallel or perpendicular to conductor entry
- Double solder pins for high mechanical stability
- Custom color combinations

Data Notes

Variants:

Other pole numbers

Other colors

Mixed-color PCB connector strips

Direct marking

Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/.

Electrical data

Ratings per IEC/EN

| Ratings per | IEC/EN 60664-1 |
|-------------------------------|---|
| Nominal voltage (III/3) | 63 V |
| Rated impulse voltage (III/3) | 2.5 kV |
| Rated voltage (III/2) | 160 V |
| Rated impulse voltage (III/2) | 2.5 kV |
| Nominal voltage (II/2) | 320 V |
| Rated surge voltage (II/2) | 2.5 kV |
| Rated current | 6 A |
| Legend (ratings) | (III / 2) ≙ Overvoltage category III / Pollution degree 2 |

Ratings per UL

| Approvals per | UL 1059 |
|--------------------------------|---------|
| Rated voltage UL (Use Group B) | 150 V |
| Rated current UL (Use Group B) | 4 A |

Ratings per CSA

| Approvals per | CSA |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 150 V |
| Rated current CSA (Use Group B) | 4 A |

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Connection data

| Connection points | 8 |
|----------------------------|---|
| Total number of potentials | 8 |
| Number of connection types | 1 |
| Number of levels | 1 |

Connection 1

| Connection technology | CAGE CLAMP [®] |
|---|---|
| Actuation type | Operating tool |
| Solid conductor | 0.08 0.5 mm² / 28 20 AWG |
| Fine-stranded conductor | 0.08 0.5 mm² / 28 20 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.25 mm² |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 mm² |
| Note (conductor cross-section) | Terminating 0.75 mm ² /18 AWG conductors is possible; however insulation diameter allows only every other clamping unit to be terminated with this conductor size. |
| Strip length | 5 6 mm / 0.2 0.24 inches |
| Conductor connection direction to PCB | 30 ° |
| Pole number | 8 |

Physical data

| Pin spacing | 2.54 mm / 0.1 inches |
|--------------------------------------|--------------------------|
| Width | 22.62 mm / 0.891 inches |
| Height | 15.7 mm / 0.618 inches |
| Height from the surface | 11.7 mm / 0.461 inches |
| Depth | 12.1 mm / 0.476 inches |
| Solder pin length | 4 mm |
| Solder pin dimensions | 0.5 x 0.75 mm |
| Drilled hole diameter with tolerance | 1.1 ^(±0.1) mm |

PCB contact

| PCB contact | THT |
|-------------------------------------|--|
| Solder pin arrangement | over the entire terminal strip (in-line) |
| Number of solder pins per potential | 2 |

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Material data

Note (material data)

Information on material specifications can be found here

| Color | orange | |
|-----------------------------|--|--|
| Material group | I | |
| Insulation material | Polyamide (PA66) | |
| Flammability class per UL94 | V0 | |
| Clamping spring material | Chrome-nickel spring steel (CrNi) | |
| Contact material | Electrolytic copper (E _{Cu}) | |
| Contact plating | Tin | |
| Fire load | 0.044 MJ | |
| Weight | 2.8 g | |
| | | |

Environmental requirements

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

Commercial data

| 27-44-04-01 |
|---------------|
| 27-44-04-01 |
| EC002643 |
| EC002643 |
| NO DATA |
| 220 (55) pcs |
| box |
| CH |
| 4045454049997 |
| 85369010000 |
| |

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|-------------------|
| KEMA | CCA DEKRA Certification B.V. | EN 60998 | 2153951.01 |
| CCA | CCA DEKRA Certification B.V. | EN 60998 | NTR NL 6946 |
| CCA | CCA DEKRA Certification B.V. | EN 60947-7-4 | NTR NL 7786 |
| (1) | CSA DEKRA Certification B.V. | C22.2 | 1465035 |
| KEMA | KEMA/KEUR DEKRA Certification B.V. | EN 60947-7-4 | 71-111040 |
| N | UL UL International Germany GmbH | UL 1059 | E45172 |
| Declarations | of conformity and manufacturer's declarations | | |
| Logo | Approval | Additional Approval Toyt | Certificate |
| Logo | Approval EU-Declaration of Conformity WAGO GmbH & Co. KG | Additional Approval Text - | name - |
| UK | UK-Declaration of Conformity WAGO GmbH & Co. KG | - | - |
| | marine applications | | |
| Logo | Approval | Additional Approval Text | Certificate name |
| | ABS American Bureau of Shipping | - | 19- HG1869876- |
| Subject to cha | anges. Please also observe the further product o | documentation! | |
| WAGO GmbH Hansastr. 27 32423 Minder Phone: +4957 | | Do you have any questions about our prod We are always happy to take your call at +4 | |









DNV DNV GL SE PDA

TAE000016Z

Optional accessories

| g tool | |
|---|---|
| ltem no.: 210-648 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short | www.wago.com/210-648 |
| Item no.: 210-647 Operating tool; Blade: 2.5×0.4 mm; with a partially insulated shaft; multicoloured | www.wago.com/210-647 |
| Item no.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft | www.wago.com/210-719 |
| Item no.: 233-332 Operating tool; made of insulating material; white | www.wago.com/233-332 |
| Item no.: 233-331 Operating tool; insulated; yellow | www.wago.com/233-331 |
| Item no.: 233-335 Operating tool; green | www.wago.com/233-335 |
| | |
| | |
| Item no.: 216-131 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored | www.wago.com/216-131 |
| Item no.: 216-151 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated | www.wago.com/216-151 |
| Item no.: 216-301 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow | www.wago.com/216-301 |
| Item no.: 216-321 | www.wago.com/216-321 |
| | Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short Item no.: 210-647 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured Item no.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft Item no.: 233-332 Operating tool; made of insulating material; white Item no.: 233-331 Operating tool; insulated; yellow Item no.: 233-335 Operating tool; green Item no.: 216-131 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored Item no.: 216-151 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated Item no.: 216-301 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow |

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| v. | | |
|-------|--|--|
| W | | |
| 10.76 | | |

Item no.: 210-331/250-207

Marking strips; as a DIN A4 sheet; MARKED; 1-48 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-331 /250-207

1.1

Item no.: 210-331/250-202

Marking strips; as a DIN A4 sheet; MARKED; 1-16 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-331

/250-202



Item no.: 210-331/254-204

Marking strips; as a DIN A4 sheet; MARKED; 17-32 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-331

/254-204



Item no.: 210-331/250-204

Marking strips; as a DIN A4 sheet; MARKED; 17-32 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-331

/250-204



Item no.: 210-331/254-206

Marking strips; as a DIN A4 sheet; MARKED; 33-48 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-331 /254-206



Item no.: 210-331/250-206

Marking strips; as a DIN A4 sheet; MARKED; 33-48 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-331

/250-206



Item no.: 210-331/254-202

Marking strips; as a DIN A4 sheet; MARKED; 1-16 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-331

/254-202



Item no.: 210-331/254-207

Marking strips; as a DIN A4 sheet; MARKED; 1-48 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-331

/254-207

Downloads Documentation

Additional Information

Additional information

Technical Section

2019 Apr 3

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Technical explanations

CAD/CAE-Data

CAE data

EPLAN Data Portal 233-408

URL

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ZUKEN Portal 233-408

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PCB Design

Symbol and Footprint via Ultra Librarian 233-408

URL Download

CAx data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

Supported formats:

- Accel EDA 14 & 15
- Altair
- Altium 6 to current version
- Autodesk Fusion 360
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics
- BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design
- Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000
- Zuken eCADSTAR 2020 and 2021Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

Symbol and Footprint via SamacSys 233-408

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CAx data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

Supported formats:

- 3D (stp)
- Altium
- CADSTAR
- Capture
- CircuitStudio
- CR-5000
- CR-8000
- DEHDL
- DesignSpark PCB
- DesignSpark PCB PRO
- DipTrace
- EAGLE
- Easy-PC
- EasyEDA
- eCADSTAR
- KiCad
- OrCAD_Allegro16
- PADS
- Proteus
- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!
- xDX Designer
- Xpedition

PCB Component Libraries (EDA), PCB CAD Library SamacSys Electronic Component Search Engine

CAD data

2D/3D Models 233-408 URL Download

Asset Administration Shell

Asset Administration Shell 233-408

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URL

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 233-408

URL

Download

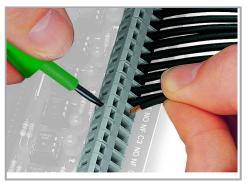
PCB terminal block; 0.5 mm²; Pin spacing 2.54 mm; 8-pole; CAGE CLAMP®; 0,50 mm²; orange

Installation Notes

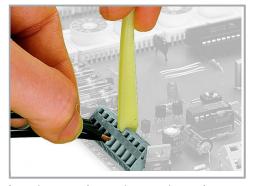
Conductor termination



Inserting a conductor via 3.5 mm screwdriver. Screwdriver actuation parallel to conductor entry



Inserting a conductor via 3.5 mm screwdriver. Screwdriver actuation perpendicular to conductor entry



Inserting a conductor via operating tool.



Compared to standard screwdrivers, these operating tools are far more convenient for wiring PCB terminal strips at factory.

Installation

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

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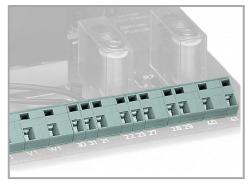
www.wago.com/233-408





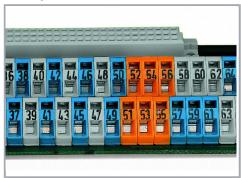
PCB Terminal Strips placed behind each other save space – staggering them by half the pin spacing simplifies subsequent wiring of the first row.

Installation



Combining PCB terminal blocks with different pin spacing.

Marking



Optional: Labeling via factory direct marking.



Optional: Labeling with self-adhesive marking strips possible

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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