

# Data sheet | Item number: 218-107

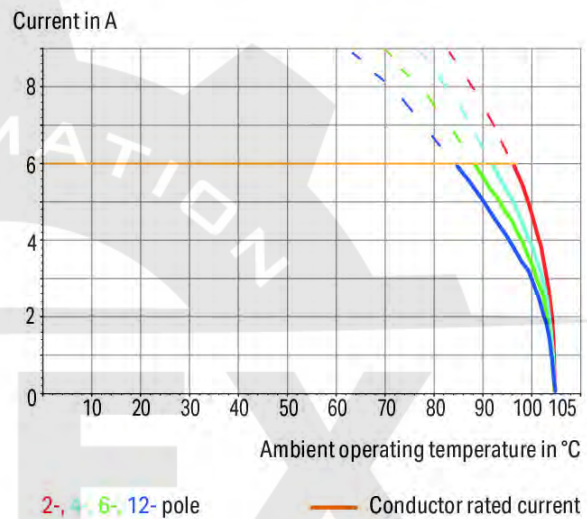
PCB terminal block; Locking slides; 0.5 mm<sup>2</sup>; Pin spacing 2.5 mm; 7-pole;  
CAGE CLAMP®



218-107



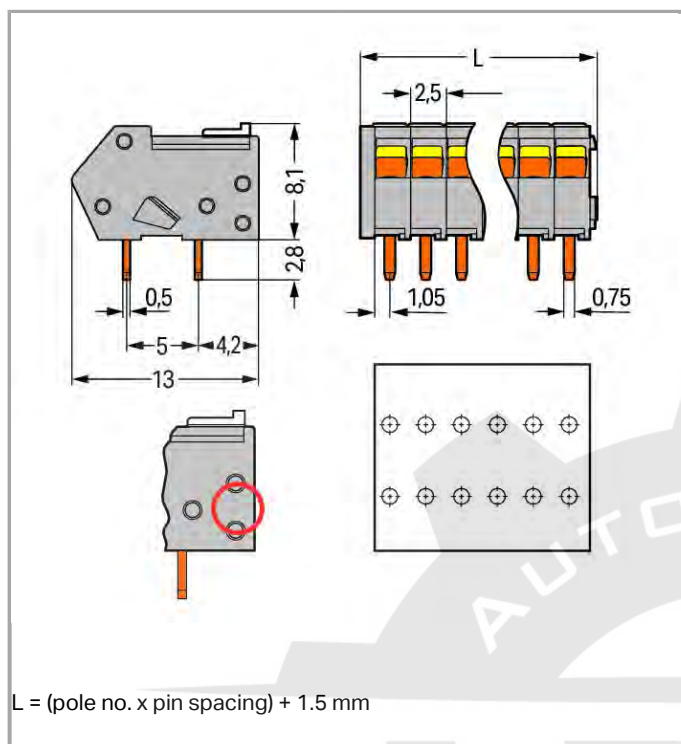
**Current-Carrying Capacity Curve**  
Pin spacing: 2.5 mm / Conductor cross-section: 0.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 1



RoHS ☒ Compliant

[BOMcheck.net](https://www.bomcheck.net)

Color: ☐



### Item description

- Terminal strips are just 8.1mm high and feature an innovative, locking slide-actuated CAGE CLAMP®
- Several clamping units can be held open simultaneously
- Easy termination of stranded conductors in tight spaces (e.g., bus connectors)

### Data

#### Electrical data

#### Ratings per IEC/EN 60664-1

|                                 |        |
|---------------------------------|--------|
| Rated voltage (III / 3)         | 80 V   |
| Rated impulse voltage (III / 3) | 2.5 kV |
| Rated voltage (III / 2)         | 160 V  |
| Rated impulse voltage (III / 2) | 2.5 kV |
| Rated voltage (II / 2)          | 320 V  |
| Rated impulse voltage (II / 2)  | 2.5 kV |
| Rated current                   | 6 A    |

#### Approvals per UL 1059

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

## Approvals per CSA

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

## Connection data

|                                                             |                                                                                                                                                                               |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connection technology                                       | CAGE CLAMP®                                                                                                                                                                   |
| Actuation type                                              | Locking slide                                                                                                                                                                 |
| Solid conductor                                             | 0.08 ... 0.5 mm <sup>2</sup> / 28 ... 20 AWG                                                                                                                                  |
| Fine-stranded conductor                                     | 0.08 ... 0.5 mm <sup>2</sup> / 28 ... 20 AWG                                                                                                                                  |
| Fine-stranded conductor with ferrule with plastic collar    | 0.25 mm <sup>2</sup>                                                                                                                                                          |
| Fine-stranded conductor with ferrule without plastic collar | 0.25 mm <sup>2</sup>                                                                                                                                                          |
| Strip length                                                | 5 ... 6 mm / 0.2 ... 0.24 inch                                                                                                                                                |
| Conductor entry angle to the PCB                            | 40°                                                                                                                                                                           |
| Note (conductor cross-section)                              | Terminating 0.75 mm <sup>2</sup> /18 AWG conductors is possible; however insulation diameter allows only every other clamping unit to be terminated with this conductor size. |
| No. of poles                                                | 7                                                                                                                                                                             |
| Total number of connection points                           | 7                                                                                                                                                                             |
| Total number of potentials                                  | 7                                                                                                                                                                             |
| Number of connection types                                  | 1                                                                                                                                                                             |
| Number of levels                                            | 1                                                                                                                                                                             |

## Geometrical Data

|                                   |                                |
|-----------------------------------|--------------------------------|
| Pin spacing                       | 2.5 mm / 0.098 inch            |
| Width                             | 19 mm / 0.748 inch             |
| Height                            | 10.9 mm / 0.429 inch           |
| Height from the surface           | 8.1 mm / 0.319 inch            |
| Depth                             | 13 mm / 0.512 inch             |
| Solder pin length                 | 2.8 mm                         |
| Solder pin dimensions             | 0.5 x 0.75 mm                  |
| Drilled hole diameter (tolerance) | 1.1 <sup>(- ... +0.1)</sup> mm |

## PCB contact

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

## Material Data

|       |      |
|-------|------|
| Color | gray |
|-------|------|

|                             |                                        |
|-----------------------------|----------------------------------------|
| Material group              | I                                      |
| Insulating material         | Polyamide 66 (PA 66)                   |
| Flammability class per UL94 | V0                                     |
| Clamping spring material    | Chrome nickel spring steel (CrNi)      |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Fire load                   | 0.031 MJ                               |
| Weight                      | 2.372 g                                |

## Environmental Requirements

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

## Commercial data

|                    |                     |
|--------------------|---------------------|
| Product Group      | 4 (Printed Circuit) |
| Country of origin  | PL                  |
| GTIN               | 4044918877794       |
| Customs Tariff No. | 85369010000         |

## Approvals / Certificates

### Country specific Approvals

| Logo                                                                               | Approval                         | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|----------------------------------|--------------------------|------------------|
|  | CCA<br>DEKRA Certification B.V.  | EN 60947                 | NTR NL-7076      |
|  | CCA<br>DEKRA Certification B.V.  | EN 60947-7-4             | NTR NL-7267      |
|  | CSA<br>DEKRA Certification B.V.  | C22.2 No. 158            | 1565656          |
|  | ENEC<br>DEKRA Certification B.V. | EN 60947                 | 2160584.01       |

### UL-Approvals

| Logo | Approval                            | Additional Approval Text | Certificate name  |
|------|-------------------------------------|--------------------------|-------------------|
|      | UL<br>UL International Germany GmbH | UL 1059                  | E45172<br>Sec. 43 |



## Compatible products

|                                                                                    |                                                                                                                                                                                              |                   |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <b>ferrule</b>                                                                     |                                                                                                                                                                                              |                   |
|    | <b>Item no.: 216-131</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                               | 216-131           |
|    | <b>Item no.: 216-151</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                               | 216-151           |
|                                                                                    | <b>Item no.: 216-301</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated                                                                                 | 216-301           |
|                                                                                    | <b>Item no.: 216-321</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated                                                                                 | 216-321           |
| <b>check</b>                                                                       |                                                                                                                                                                                              |                   |
|  | <b>Item no.: 735-500</b><br>Test pin; 1 mm Ø; with solder connection for test wire                                                                                                           | 735-500           |
| <b>tools</b>                                                                       |                                                                                                                                                                                              |                   |
|  | <b>Item no.: 210-647</b><br>Operating tool with partially insulated shaft; Blade (2.5 x 0.4) mm; short                                                                                       | 210-647           |
|  | <b>Item no.: 210-719</b><br>Operating tool with partially insulated shaft; Type 1, blade (2.5 x 0.4) mm                                                                                      | 210-719           |
| <b>Marking accessories</b>                                                         |                                                                                                                                                                                              |                   |
|                                                                                    | <b>Item no.: 210-331/250-202</b><br>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  | 210-331 / 250-202 |
|                                                                                    | <b>Item no.: 210-331/250-204</b><br>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 | 210-331 / 250-204 |
|                                                                                    | <b>Item no.: 210-331/250-206</b><br>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 | 210-331 / 250-206 |
|                                                                                    | <b>Item no.: 210-331/250-207</b><br>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  | 210-331 / 250-207 |

**Downloads****CAD/CAE - Smart Data****CAD data**

| 3D Download 218-107                                                                                           |                      | URL            | Download |
|---------------------------------------------------------------------------------------------------------------|----------------------|----------------|----------|
| <b>PCB libraries</b>                                                                                          |                      |                |          |
| EAGLE Library for WAGO PCB Terminal Blocks<br>Compatible with EAGLE PCB Design Software Version 6.x or higher | 2.1<br>Oct 6, 2014   | zip<br>23.9 MB | Download |
| TARGET Library for WAGO PCB Terminal Blocks<br>Compatible with TARGET PCB Design Software Version 17.x        | 1.1.0<br>Oct 6, 2014 | zip<br>27.1 MB | Download |
| DesignSpark Library for WAGO PCB Terminal Blocks<br>Compatible with DesignSpark PCB Version 4.x or higher     | 2.1<br>Oct 6, 2014   | zip<br>22.5 MB | Download |

Subject to changes.