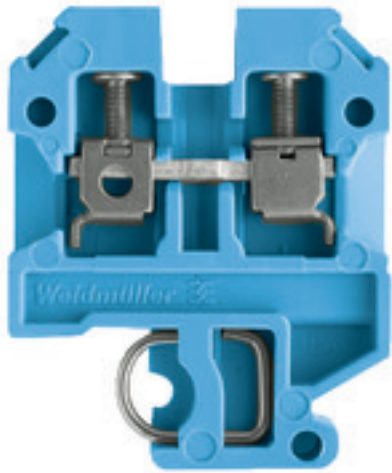


**SAK Series**  
**SAK 2.5 BL**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Product image****Klippon® Connect with clamping yoke Technology**

The high reliability and variety of designs of the terminal blocks with clamping yoke connections make planning easier and optimises operational safety. Klippon® Connect provides a proven response to a range of different requirements.

**General ordering data**

|            |  |
|------------|--|
| Type       | SAK 2.5 BL   |
| Order No.  | <a href="#">0279680000</a>   |
| Version    | SAK Series, Feed-through terminal, Rated cross-section: 2.5 mm <sup>2</sup> , Screw connection, blue |
| GTIN (EAN) | 4008190076474  |
| Qty.       | 100 pc(s).   |

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**Technical data****Dimensions and weights**

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Width      | 6 mm    | Width (inches)  | 0.236 inch |
| Height     | 36.5 mm | Height (inches) | 1.437 inch |
| Depth      | 46.5 mm | Depth (inches)  | 1.831 inch |
| Net weight | 6.94 g  |                 |            |

**Temperatures**

|                                  |   |                                  |               |
|----------------------------------|---|----------------------------------|---------------|
| Operating temperature range      | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Storage temperature, max.        | 40 °C         |
| Storage temperature, min.        | 10 °C   | Storage temperature              | 10 °C...40 °C |
| Continuous operating temp., min. | -50 °C  | Continuous operating temp., max. | 100 °C        |

**Material data**

|                           |       |        |      |
|---------------------------|-------|--------|------|
| Material                  | PA 66 | Colour | blue |
| UL 94 flammability rating | V-2   |        |      |

**Rating data IECEx/ATEX**

|                                |   |                                 |                     |
|--------------------------------|---|---------------------------------|---------------------|
| Certificate No. (ATEX)         | KEMA97ATEX1798U   | Certificate No. (IECEX)         | IECEXKEM06.0014U    |
| Max. voltage (ATEX)            | 550 V   | Current (ATEX)                  | 21 A                |
| Wire cross section max. (ATEX) | 2.5 mm <sup>2</sup>   | Max. voltage (IECEX)            | 550 V               |
| Current (IECEX)                | 21 A  | Wire cross section max. (IECEX) | 2.5 mm <sup>2</sup> |
| Operating temperature range    | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Marking EN 60079-7              | Ex eb II C Gb       |
| Ex 2014/34/EU label            | II 2 G D  |                                 |                     |

**System specifications**

|                               |   |  |              |
|-------------------------------|---|--|--------------|
| Version                       | Screw connection, for screwable cross-connection, One end without connector | Tightening torque (clamping screw for copper conductors) | 0.4...0.6 Nm |
| End cover plate required      | Yes   | Number of potentials                                     | 1            |
| Number of levels              | 1   | No. of clamping points per level                         | 2            |
| Number of potentials per tier | 1   | Levels cross-connected internally                        | No           |
| PE connection                 | No  | Rail   | TS 32        |
| N-function                    | Yes   | PE function  | No           |
| PEN function                  | No  |  |              |

**Additional technical data**

|                          |         |            |       |
|--------------------------|---------|------------|-------|
| Explosion-tested version | Yes     | Open sides | right |
| Type of mounting         | Snap-on |            |       |

**CSA rating data**

|                               |           |                               |        |
|-------------------------------|-----------|-------------------------------|--------|
| Certificate No. (CSA)         | 12400-129 | Current size C (CSA)          | 25 A   |
| Voltage size C (CSA)          | 600 V     | Wire cross section max. (CSA) | 10 AWG |
| Wire cross section min. (CSA) | 26 AWG    |                               |        |

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**Technical data****Conductors for clamping (additional connection)**

Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. 2.5 mm<sup>2</sup>

**Conductors for clamping (rated connection)**

|   |                      |   |                     |
|---|----------------------|---|---------------------|
| Blade size  | 0.6 x 3.5 mm         | Clamping range, max.  | 6 mm <sup>2</sup>   |
| Clamping range, min.  | 0.13 mm <sup>2</sup> | Clamping screw  | M 2.5               |
| Connection cross-section, stranded, max.  | 4 mm <sup>2</sup>    | Connection cross-section, stranded, min.  | 0.5 mm <sup>2</sup> |
| Connection direction  | on side              | Gauge to IEC 60947-1  | A3                  |
| Number of connections   | 2                    | Stripping length  | 10 mm               |
| Tightening torque, max.   | 0.6 Nm               | Tightening torque, min.   | 0.4 Nm              |
| Torque level with DMS electric screwdriver  | 1                    | Twin wire-end ferrules, max.  | 1.5 mm <sup>2</sup> |
| Twin wire-end ferrules, min.  | 0.5 mm <sup>2</sup>  | Type of connection  | Screw connection    |
| Wire connection cross section AWG, max.   | AWG 10               | Wire connection cross section AWG, min.   | AWG 26              |
| Wire connection cross section, finely stranded, max.                                    | 4 mm <sup>2</sup>    | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 4 mm <sup>2</sup>   |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.5 mm <sup>2</sup>  | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 4 mm <sup>2</sup>   |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm <sup>2</sup>  | Wire connection cross-section, finely stranded, min.                                    | 0.5 mm <sup>2</sup> |
| Wire connection cross-section, solid core, max.   | 6 mm <sup>2</sup>    | Wire connection cross-section, solid core, min.   | 0.5 mm <sup>2</sup> |

**Rating data**

|                                 |                     |  |         |
|---------------------------------|---------------------|--|---------|
| Rated cross-section             | 2.5 mm <sup>2</sup> | Rated voltage                                | 800 V   |
| Rated current                   | 24 A                | Current at maximum wires                     | 41 A    |
| Standards                       | IEC 60947-7-1       | Volume resistance according to IEC 60947-7-x | 1.33 mΩ |
| Rated impulse withstand voltage | 8 kV                | Pollution severity                           | 3       |

**UL rating data**

|   |        |   |        |
|---|--------|---|--------|
| Certificate No. (UR)                    | E60693 | Conductor size Factory wiring max. (UR) | 12 AWG |
| Conductor size Factory wiring min. (UR) | 22 AWG | Conductor size Field wiring max. (UR)   | 12 AWG |
| Conductor size Field wiring min. (UR)   | 22 AWG | Current size C (UR)                     | 20 A   |
| Voltage size C (UR)                     | 600 V  |   |        |

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC000897    | ETIM 4.0   | EC000897    |
| ETIM 5.0   | EC000897    | ETIM 6.0   | EC000897    |
| UNSPSC     | 30-21-18-11 | eClass 5.1 | 27-14-11-20 |
| eClass 6.2 | 27-14-11-20 | eClass 7.1 | 27-14-11-20 |
| eClass 8.1 | 27-14-11-20 | eClass 9.0 | 27-14-11-20 |
| eClass 9.1 | 27-14-11-20 |            |             |

**Data sheet**

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**Technical data**

**Approvals**

Approvals



ROHS Conform

**Downloads**

|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">Attestation Of Conformity</a><br><a href="#">ATEX Certificate</a><br><a href="#">IECEX Certificate</a> |
| Engineering Data                            | <a href="#">STEP</a>   |
| User Documentation                          | <a href="#">Cross Connection Guide</a><br><a href="#">Usage of terminals in EXi atmospheres</a>                    |

**Safety note**

Safety notice [Safety Information](#)