

**SAK Series**  
**SAK 70/35****Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
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 70/35  |
| Order No.  | <a href="#">0139160000</a>   |
| Version    | SAK Series, Feed-through terminal, Rated cross-section: 70 mm <sup>2</sup> , Screw connection, beige |
| GTIN (EAN) | 4008190088552  |
| Qty.       | 10 pc(s).  |

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Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Width      | 22 mm   | Width (inches)  | 0.866 inch |
| Height     | 75 mm   | Height (inches) | 2.953 inch |
| Depth      | 87 mm   | Depth (inches)  | 3.425 inch |
| Net weight | 156.1 g |                 |            |

**Temperatures**

|                                  |               |                                  |        |
|----------------------------------|---------------|----------------------------------|--------|
| 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 | beige / yellow |
| UL 94 flammability rating | V-2   |        |                |

**System specifications**

|                                     |   |                               |     |
|-------------------------------------|---|-------------------------------|-----|
| Version                             | Screw connection, for screwable cross-connection, One end without connector | End cover plate required      | Yes |
| Number of potentials                | 1   | Number of levels              | 1   |
| Number of clamping points per level | 2   | Number of potentials per tier | 1   |
| Levels cross-connected internally   | No  | PE connection                 | No  |
| Rail                                | TS 35   | N-function                    | No  |
| PE function                         | No  | PEN function                  | No  |

**Additional technical data**

|                          |       |                             |         |
|--------------------------|-------|-----------------------------|---------|
| Explosion-tested version | No    | Number of similar terminals | 1       |
| Open sides               | right | Type of mounting            | Clamped |

**CSA rating data**

|                               |           |                               |        |
|-------------------------------|-----------|-------------------------------|--------|
| Certificate No. (CSA)         | 12400-136 | Current size C (CSA)          | 150 A  |
| Voltage size C (CSA)          | 600 V     | Wire cross section max. (CSA) | 00 AWG |
| Wire cross section min. (CSA) | 4 AWG     |                               |        |

**Conductors for clamping (additional connection)**

|   |                    |
|---|--------------------|
| Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. | 35 mm <sup>2</sup> |
|---|--------------------|

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

|   |                    |   |                    |
|---|--------------------|---|--------------------|
| Blade size  | S6 (DIN 6911)      | Clamping range, max.  | 70 mm <sup>2</sup> |
| Clamping range, min.  | 16 mm <sup>2</sup> | Clamping screw  | M 8                |
| Connection cross-section, stranded, max.  | 70 mm <sup>2</sup> | Connection cross-section, stranded, min.  | 16 mm <sup>2</sup> |
| Connection direction  | on side            | Gauge to IEC 60947-1  | B11                |
| Number of connections   | 2                  | Stripping length  | 24 mm              |
| Tightening torque, max.   | 12 Nm              | Tightening torque, min.   | 6 Nm               |
| Type of connection  | Screw connection   | Wire connection cross section AWG, max.   | AWG 2/0            |
| Wire connection cross section AWG, min.   | AWG 4              | Wire connection cross section, finely stranded, max.                                    | 70 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 35 mm <sup>2</sup> | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 16 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded, min.                                    | 16 mm <sup>2</sup> | Wire connection cross-section, solid core, max.   | 16 mm <sup>2</sup> |
| Wire connection cross-section, solid core, min.   | 16 mm <sup>2</sup> |   |                    |

**Dimensions**

|              |         |
|--------------|---------|
| TS 35 offset | 19.5 mm |
|--------------|---------|

**Rating data**

|   |                    |  |         |
|---|--------------------|--|---------|
| Rated cross-section                         | 70 mm <sup>2</sup> | Rated voltage                                | 1,000 V |
| Rated current                               | 192 A              | Current at maximum wires                     | 192 A   |
| Standards                                   | IEC 60947-7-1      | Volume resistance according to IEC 60947-7-x | 0.17 mΩ |
| Power loss in accordance with IEC 60947-7-x | 6.14 W             | Rated impulse withstand voltage              | 8 kV    |
| Pollution severity                          | 3                  |  |         |

**UL rating data**

|   |        |   |        |
|---|--------|---|--------|
| Certificate No. (UR)                    | E60693 | Conductor size Factory wiring max. (UR) | 00 AWG |
| Conductor size Factory wiring min. (UR) | 4 AWG  | Conductor size Field wiring max. (UR)   | 00 AWG |
| Conductor size Field wiring min. (UR)   | 4 AWG  | Current size C (UR)                     | 150 A  |
| Voltage size C (UR)                     | 600 V  |   |        |

**Classifications**

|             |             |            |             |
|-------------|-------------|------------|-------------|
| ETIM 6.0    | EC000897    | ETIM 7.0   | EC000897    |
| eClass 9.0  | 27-14-11-20 | eClass 9.1 | 27-14-11-20 |
| eClass 10.0 | 27-14-11-20 | UNSPSC     | 30-21-18-11 |

**Approvals**

Approvals



ROHS Conform

**Data sheet****SAK Series  
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**Technical data****Downloads**

|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">DE_PT1301_20160418_438_ISSUE01.pdf</a> |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>                       |
| Engineering Data                            | <a href="#">STEP</a>                               |
| User Documentation                          | <a href="#">StorageConditionsTerminalBlocks</a>    |

**Safety note**

|               |                                    |
|---------------|------------------------------------|
| Safety notice | <a href="#">Safety Information</a> |
|---------------|------------------------------------|