

SAK Series
SAK 2.5/35

Weidmüller Interface GmbH & Co. KG
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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 2.5/35 |
| Order No. | 0380460000 |
| Version | SAK Series, Feed-through terminal, Rated cross-section: 2.5 mm ² , Screw connection, beige, Direct mounting |
| GTIN (EAN) | 4008190042363 |
| Qty. | 100 pc(s). |

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Technical data**Dimensions and weights**

| | | | |
|------------|---------|-----------------|------------|
| Width | 6.1 mm | Width (inches) | 0.24 inch |
| Height | 44.5 mm | Height (inches) | 1.752 inch |
| Depth | 40 mm | Depth (inches) | 1.575 inch |
| Net weight | 6.33 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 | beige / yellow |
| 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 ² | Max. voltage (IECEX) | 550 V |
| Current (IECEX) | 21 A | Wire cross section max. (IECEX) | 2.5 mm ² |
| 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...0.8 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 35 |
| N-function | No | PE function | No |
| PEN function | No | | |

Additional technical data

| | | | |
|-----------------------------|---------|---------------------|-----------------|
| Explosion-tested version | Yes | Installation advice | Direct mounting |
| Number of similar terminals | 1 | 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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Catalogue status 07.06.2019 / We reserve the right to make technical changes.

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Technical data
Conductors for clamping (additional connection)

Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. 4 mm²

Conductors for clamping (rated connection)

| | | | |
|---|----------------------|---|---------------------|
| Blade size | 0.6 x 3.5 mm | Clamping range, max. | 6 mm ² |
| Clamping range, min. | 0.13 mm ² | Clamping screw | M 2.5 |
| Connection cross-section, stranded, max. | 4 mm ² | Connection cross-section, stranded, min. | 0.5 mm ² |
| Connection direction | on side | Gauge to IEC 60947-1 | A3 |
| Number of connections | 2 | Stripping length | 10 mm |
| Tightening torque, max. | 0.8 Nm | Tightening torque, min. | 0.4 Nm |
| Torque level with DMS electric screwdriver | 1 | Twin wire-end ferrules, max. | 1.5 mm ² |
| Twin wire-end ferrules, min. | 0.5 mm ² | Type of connection | Screw connection |
| Wire connection cross section AWG, min. | AWG 26 | Wire connection cross section, finely stranded, max. | 4 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 4 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.5 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 4 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm ² |
| Wire connection cross-section, finely stranded, min. | 0.5 mm ² | Wire connection cross-section, solid core, max. | 6 mm ² |
| Wire connection cross-section, solid core, min. | 0.5 mm ² | | |

Rating data

| | | | |
|---------------------------------|---------------------|--|---------|
| Rated cross-section | 2.5 mm ² | 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 | Attestation Of Conformity ATEX Certificate IECEx Certificate DE_PT1301_20160418_366_ISSUE01.pdf |
| Engineering Data | EPLAN_WSCAD |
| Engineering Data | 22364_SAK_2.5-35_DXF.dxf STEP |
| User Documentation | Cross Connection Guide StorageConditionsTerminalBlocks |

Safety note

Safety notice [Safety Information](#)