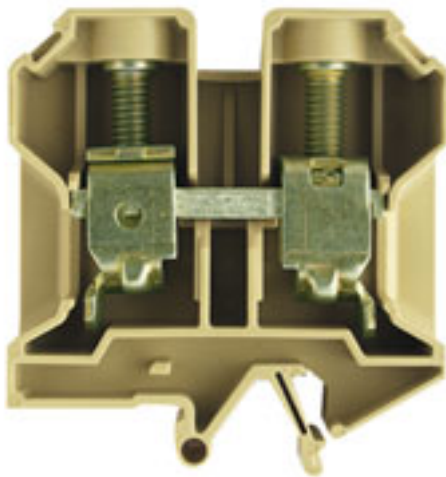


SAK Series
SAK 35N

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



The Weidmüller SAK feed-through terminals satisfy the requirements of IEC 60947-1 and are available with rated cross-sections from 0.08 mm² to 240 mm².

General ordering data

| | |
|------------|----------------------------|
| Type | SAK 35N |
| Order No. | 0550660000 |
| GTIN (EAN) | 4008190165925 |
| Qty. | 20 pc(s). |

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Technische Daten

Dimensions and weights

| | | | |
|--------|---------|--------------------------|---------|
| Length | 58 mm | Width | 16 mm |
| Height | 67.5 mm | Height of lowest version | 67.5 mm |
| Weight | 61.65 g | Net weight | 51.35 g |

Temperatures

| | | | |
|----------------------------------|--------|----------------------------------|--------|
| Operating temperature | | Storage temperature | |
| Continuous operating temp., min. | -50 °C | Continuous operating temp., max. | 100 °C |

Additional technical data

| | | | |
|--------------------------|---|-----------------------------|---------|
| Explosion-tested version | No | Number of similar terminals | 1 |
| Open sides | right | Type of mounting | Clamped |
| Version | Screw connection, for screwable cross-connection, One end without connector | | |

CSA ratings data

| | | | |
|-------------------------------|----------------|-------------------------------|-------|
| Certificate No. (CSA) | 154685-1501714 | Voltage size C (CSA) | 600 V |
| Current size C (CSA) | 120 A | Wire cross section max. (CSA) | 2 AWG |
| Wire cross section min. (CSA) | 12 AWG | | |

Clampable wires (additional connection)

| | | | |
|---|---------------------|---|--------------------|
| Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, min. | 1.5 mm ² | Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. | 35 mm ² |
|---|---------------------|---|--------------------|

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Clampable wires (rated connection)

| | | | |
|---|---------------------|---|---------------------|
| Type of connection | Screw connection | Stripping length | 18 mm |
| Blade size | 6.5 x 1.2 mm | Connection direction | on side |
| Number of connections | 2 | Clamping range, rated connection, min. | 2.5 mm ² |
| Clamping range, rated connection, max. | 50 mm ² | Clamping screw | M 6 |
| Tightening torque, min. | 4 Nm | Tightening torque, max. | 5 Nm |
| Gauge to IEC 60947-1 | B8 | Wire connection cross section, solid core, max. rated connection | 2.5 mm ² |
| Wire connection cross section, solid core max. rated connection | 16 mm ² | Wire connection cross section, stranded, rated connection, min. | 4 mm ² |
| Wire connection cross section, stranded, rated connection, max. | 50 mm ² | Wire connection cross section, finely stranded, max. | 35 mm ² |
| Wire connection cross-section, finely stranded, min. | 2.5 mm ² | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min. | 1.5 mm ² |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max. | 35 mm ² | Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min. | 2.5 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max. | 35 mm ² | Twin wire-end ferrules, min. | 1.5 mm ² |
| Twin wire-end ferrules, max. | 16 mm ² | Wire connection cross section AWG, min. | AWG 12 |
| Wire connection cross section AWG, max. | AWG 2 | | |

Rated data

| | | | |
|---------------------------------|--------------------|---------------|---------------|
| Rated cross-section | 35 mm ² | Rated voltage | 800 V |
| Rated impulse withstand voltage | 8 kV | Rated current | 125 A |
| Current at maximum wires | 150 A | Standards | IEC 60947-7-1 |
| Pollution severity | 3 | | |

Strap connection

| | | | |
|-----------------------------|------------|-----------------------------|------------|
| Band 1, No. of layers, min. | 3: 9 x 0.8 | Band 1, No. of layers, max. | 9: 9 x 0.8 |
|-----------------------------|------------|-----------------------------|------------|

UL ratings data

| | | | |
|---|--------|---|-------|
| Certificate No. (UR) | E60693 | Voltage size C (UR) | 600 V |
| Current size C (UR) | 100 A | Conductor size Factory wiring max. (UR) | 2 AWG |
| Conductor size Factory wiring min. (UR) | 12 AWG | Conductor size Field wiring max. (UR) | 2 AWG |

Material data

| | | | |
|---------------------|-------|---------------------------|-------|
| Insulating material | PA 66 | Material | PA 66 |
| Colour | Beige | UL 94 flammability rating | V-2 |

System specifications

| | | | |
|-----------------------------------|------------|----------------------------------|------------------|
| Product family | SAK Series | Type of connection | Screw connection |
| Connection direction | on side | Number of levels | 1 |
| Number of connections | 2 | No. of clamping points per level | 2 |
| Levels cross-connected internally | No | Mounting rail | TS 32 |
| End cover plate required | Yes | | |

Erstellungs-Datum January 31, 2014 1:51:09 PM CET

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Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | 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 | | |

Product information

| | |
|---------------------------------|---|
| Descriptive text ordering data | It is possible to use twin ferrules with identical rated voltages (LAB 13090). |
| Descriptive text technical data | The tightening torque is 4.5 Nm for 16 - 50 mm ² and AWG 6 - 2/7 stranded conductors. Twin wire end ferrules ZH 2.5 - ZH 16 can be used. |
| Descriptive text accessories | If QIs are aligned side by side, then a TW/AP must be used. |

Approvals

Approvals



ROHS Conform