

**SAK Series
SAK 6N**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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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 6N |
| Order No. | 0193260000 |
| GTIN (EAN) | 4008190031893 |
| Qty. | 100 pc(s). |

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Technische Daten

Dimensions and weights

| | | | |
|------------|---------|--------------------------|---------|
| Length | 40 mm | Width | 8 mm |
| Height | 49 mm | Height of lowest version | 51.5 mm |
| Net weight | 14.19 g | | |

Temperatures

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

Rated data IECEx/ATEX

| | | | |
|---------------------------|--------------------------|--------------------------------|---|
| Certificate No. (ATEX) | KEMA97ATEX1798U | ATEX certificate | KEMA97ATEX1798U_d.pdf |
| ATEX certificate | KEMA97ATEX1798U_e.pdf | Max. voltage (ATEX) | 550 V |
| Current (ATEX) | 36 A | Wire cross section max. (ATEX) | 6 mm ² |
| Voltage, cross-connection | | Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity |
| | CrossConnectionGuide.pdf | | |
| Marking EN 60079-7 | Ex e II | Marking ATEX Directive 94/9/EC | II 2 G D |

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 ratings data

| | | | |
|-------------------------------|----------------|-------------------------------|-------|
| Certificate No. (CSA) | 154685-1501714 | Voltage size C (CSA) | 600 V |
| Current size C (CSA) | 47 A | Wire cross section max. (CSA) | 8 AWG |
| Wire cross section min. (CSA) | 20 AWG | | |

Clampable wires (additional connection)

| | | | |
|---|---------------------|---|-------------------|
| Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, min. | 0.5 mm ² | Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. | 6 mm ² |
|---|---------------------|---|-------------------|

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Clampable wires (rated connection)

| | | | |
|---|---------------------|---|----------------------|
| Type of connection | Screw connection | Stripping length | 12 mm |
| Blade size | 4.0 x 0.8 mm | Connection direction | on side |
| Number of connections | 2 | Clamping range, rated connection, min. | 0.33 mm ² |
| Clamping range, rated connection, max. | 10 mm ² | Clamping screw | M 3.5 |
| Tightening torque, min. | 1.2 Nm | Tightening torque, max. | 1.6 Nm |
| Torque level with DMS electric screwdriver | 3 | Gauge to IEC 60947-1 | A5 |
| Wire connection cross section, solid core, max. rated connection | 0.5 mm ² | Wire connection cross section, solid core max. rated connection | 10 mm ² |
| Wire connection cross section, stranded, rated connection, min. | 0.5 mm ² | Wire connection cross section, stranded, rated connection, max. | 6 mm ² |
| Wire connection cross section, finely stranded, max. | 10 mm ² | Wire connection cross-section, finely stranded, min. | 0.5 mm ² |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min. | 0.5 mm ² | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max. | 6 mm ² |
| Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min. | 0.5 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max. | 6 mm ² |
| Twin wire-end ferrules, min. | 0.5 mm ² | Twin wire-end ferrules, max. | 4 mm ² |
| Wire connection cross section AWG, min. | AWG 22 | | |

Rated data

| | | | |
|---------------------------------|-------------------|---------------|---------------|
| Rated cross-section | 6 mm ² | Rated voltage | 800 V |
| Rated impulse withstand voltage | 8 kV | Rated current | 41 A |
| Current at maximum wires | 57 A | Standards | IEC 60947-7-1 |
| Pollution severity | 3 | | |

UL ratings data

| | | | |
|---|--------|---|-------|
| Certificate No. (UR) | E60693 | Voltage size C (UR) | 600 V |
| Current size C (UR) | 40 A | Conductor size Factory wiring max. (UR) | 8 AWG |
| Conductor size Factory wiring min. (UR) | 22 AWG | Conductor size Field wiring max. (UR) | 8 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 | | |

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 | | |

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Product information

| | |
|---------------------------------|---|
| Descriptive text ordering data | With AWG 6 and H07V-R10 conductors, an increased MD torque of 1.4 to 1.6 Nm should be used. |
| Descriptive text technical data | For AWG 8-7 and AWG 8-19, tightening torque is 1.21.4 Nm |
| Descriptive text accessories | When used with twin ferrules ZH 0.5 - ZH 4, the rated voltage is 690 V. |

Approvals

Approvals



ROHS Conform