

SAK 35N**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

General ordering data

| | |
|------------|--|
| Version | SAK Series, Feed-through terminal, Rated cross-section: 35 mm ² , Screw connection, beige |
| Order No. | 0550660000 |
| Type | SAK 35N |
| GTIN (EAN) | 4008 190165925 |
| Qty. | 20 pc(s). |

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Catalogue status 18.02.2023 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

| | | | |
|------------|---------|-----------------|------------|
| Depth | 67.5 mm | Depth (inches) | 2.657 inch |
| Height | 58 mm | Height (inches) | 2.283 inch |
| Width | 16 mm | Width (inches) | 0.63 inch |
| Net weight | 51.35 g | | |

Temperatures

| | | | |
|----------------------------------|----------------|----------------------------------|--------|
| Storage temperature | -25 °C...55 °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 32 | 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) | 154685-1501714 | Current size C (CSA) | 120 A |
| Voltage size C (CSA) | 600 V | Wire cross section max. (CSA) | 2 AWG |
| Wire cross section min. (CSA) | 12 AWG | | |

Conductors for clamping (additional connection)

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

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Technical data

Conductors for clamping (rated connection)

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

General

| | | | |
|---|-------|---|---------------|
| Rail | TS 32 | Standards | IEC 60947-7-1 |
| Wire connection cross section AWG, max. | AWG 2 | Wire connection cross section AWG, min. | AWG 12 |

Rating data

| | | | |
|---------------------------------|--------------------|--|---------|
| Rated cross-section | 35 mm ² | Rated voltage | 800 V |
| Rated current | 125 A | Current at maximum wires | 150 A |
| Standards | IEC 60947-7-1 | Volume resistance according to IEC 60947-7-x | 0.26 mΩ |
| Rated impulse withstand voltage | 8 kV | Power loss in accordance with IEC 60947-7-x | 4 W |
| Pollution severity | 3 | | |

UL rating data

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

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC000897 | ETIM 7.0 | EC000897 |
| ETIM 8.0 | EC000897 | ECLASS 9.0 | 27-14-11-20 |
| ECLASS 9.1 | 27-14-11-20 | ECLASS 10.0 | 27-14-11-20 |
| ECLASS 11.0 | 27-14-11-20 | ECLASS 12.0 | 27-14-11-20 |

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Technical data

Approvals

Approvals



| | |
|---------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (UR) | E60693 |
| Certificate No. (cURusEX) | E184763 |

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | EAC certificate DNVGL certificate MARITREG Certificate Declaration of Conformity UKCA declaration of conformity |
| Engineering Data | CAD data – STEP |
| Engineering Data | WSCAD |
| Product Change Notification | 20210308 Technical Change SAK PA 32 |
| Catalogues | Catalogues in PDF-format |