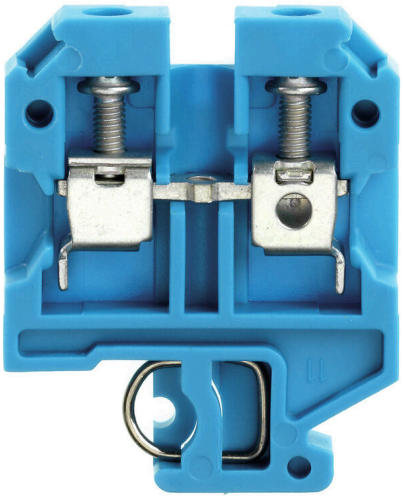
Data sheet

# SAK 6N BL

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Product image



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 | Feed-through terminal block, Screw connection, blue, 6 mm², 41 A, 800 V, Number of connections: 2 |
| Order No. | 0193280000 |
| Type | SAK 6N BL |
| GTIN (EAN) | 4008190020644 |
| Qty. | 100 items |
| Delivery status | This article will no longer be available in the future. |
| Last order date | 2026-06-30T00:00:00+02:00 |
| Alternative product | SAK 6N |

# Data sheet

## SAK 6N BL

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# Technical data

### Approvals

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

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 49 mm | Depth (inches) | 1.9291 inch |
| Height | 40 mm | Height (inches) | 1.5748 inch |
| Width | 8 mm | Width (inches) | 0.315 inch |
| Net weight | 14.52 g | | |

### Temperatures

| | | | |
|---|---|---|---|
| Storage temperature | -25 °C...55 °C | Ambient temperature | -50 °C...55 °C |
| Continuous operating temp., min. | -50 °C | Continuous operating temp., max. | 100 °C |

### Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC | No SVHC above 0.1 wt% |

### Material data

| | | | |
|---|---|---|---|
| Basic material | PA 66 | Colour | blue |
| UL 94 flammability rating | V-2 | | |

### Rating data IECEx/ATEX

| | | | |
|---|---|---|---|
| Certificate No. (ATEX) | TUEV18ATEX8207U | Certificate No. (IECEX) | IECEXTUR18.0017U |
| Max. voltage (ATEX) | 550 V | Current (ATEX) | 41 A |
| Wire cross section max. (ATEX) | 10 mm² | Max. voltage (IECEX) | 550 V |
| Current (IECEX) | 41 A | Wire cross section max. (IECEX) | 10 mm² |
| Marking EN 60079-7 | Ex eb II C Gb | Ex 2014/34/EU label | II 2 G D |

### System specifications

| | | | |
|---|---|---|---|
| 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 | Mounting rail | TS 32 |
| N-function | Yes | PE function | No |
| PEN function | No | | |

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## Technical data

### Additional technical data

| | | | |
|---|---|---|---|
| Open sides | right | Number of similar terminals | 1 |
| Installation advice | Direct mounting | Explosion-tested version | Yes |
| Type of mounting | Snap-on | | |

### CSA rating data

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

### Conductors for clamping (additional connection)

| | | | |
|---|---|---|---|
| Conductor cross-section, flexible with plastic collar (DIN 46228/1) (further connection), max. | 6 mm² | Connection type, additional connection | Screw connection |

### Conductors for clamping (rated connection)

| | | | |
|---|---|---|---|
| Gauge to IEC 60947-1 | A5 | Wire connection cross section AWG, max. | AWG 6 |
| Connection direction | on side | Tightening torque, max. | 1.6 Nm |
| Tightening torque, min. | 1.2 Nm | Stripping length | 12 mm |
| Type of connection | Screw connection | Number of connections | 2 |
| Clamping range, max. | 10 mm² | Clamping range, min. | 0.33 mm² |
| Clamping screw | M 3.5 | Blade size | 4.0 x 0.8 mm |
| Wire connection cross section AWG, min. | AWG 22 | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 6 mm² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.33 mm² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 6 mm² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.33 mm² | Wire connection cross-section, finely stranded, max. | 10 mm² |
| Wire connection cross section, finely stranded, min. | 0.33 mm² | Connection cross-section, stranded, max. | 6 mm² |
| Connection cross-section, stranded, min. | 0.33 mm² | Twin wire-end ferrules, max. | 4 mm² |
| Twin wire-end ferrules, min. | 0.5 mm² | Torque level with DMS electric screwdriver | 3 |
| Wire connection cross-section, solid core, max. | 10 mm² | Wire connection cross-section, solid core, min. | 0.33 mm² |
| Connection cross-section, finely stranded (rated connection), min. | 0.33 mm² | | |

### General

| | | | |
|---|---|---|---|
| Wire connection cross section AWG, max. | AWG 6 | Installation advice | Direct mounting |
| Wire connection cross section AWG, min. | AWG 22 | Standards | IEC 60947-7-1 |
| Mounting rail | TS 32 | | |

### Rating data

| | | | |
|---|---|---|---|
| Rated cross-section | 6 mm² | Rated voltage | 800 V |
| Rated DC voltage | 800 V | Nominal current | 41 A |
| Current at maximum wires | 57 A | Standards | IEC 60947-7-1 |
| Volume resistance | 0.78 mΩ | Rated impulse withstand voltage | 8 kV |

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## Technical data

| | | | |
|---|---|---|---|
| Power loss in accordance with IEC 60947-7-x | 1.31 W | Pollution severity | 3 |

### UL rating data

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

### Classifications

| | | | |
|---|---|---|---|
| ETIM 8.0 | EC000897 | ETIM 9.0 | EC000897 |
| ETIM 10.0 | EC000897 | ECLASS 14.0 | 27-25-01-01 |
| ECLASS 15.0 | 27-25-01-01 | | |