

## Data sheet

### SAK Series SAK 6N KRG

#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

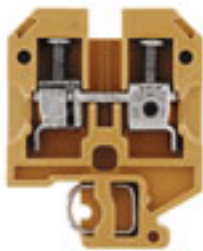
Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com

### 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

|                     |                                                                |
|---------------------|----------------------------------------------------------------|
| Delivery status     | <b>This article will no longer be available in the future.</b> |
| Available until     | 2020-12-31                                                     |
| Type                | SAK 6N KRG                                                     |
| Order No.           | <a href="#">0193220000</a>                                     |
| GTIN (EAN)          | 4008190098285                                                  |
| Qty.                | 100 pc(s).                                                     |
| Alternative product | <a href="#">1020200000</a>                                     |

Creation date 14 April 2020 17:13:08 CEST

Catalogue status 03.04.2020 / We reserve the right to make technical changes.

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## Technical data

### Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Width      | 8 mm    | Width (inches)  | 0.315 inch |
| Height     | 40 mm   | Height (inches) | 1.575 inch |
| Depth      | 49 mm   | Depth (inches)  | 1.929 inch |
| Net weight | 17.57 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. | -60 °C                                                                                            | Continuous operating temp., max. | 130 °C        |

### Material data

|                           |          |        |               |
|---------------------------|----------|--------|---------------|
| Material                  | KrG      | Colour | medium yellow |
| UL 94 flammability rating | V-0, 5VA |        |               |

### Rating data IECEx/ATEX

|                                |                                                                                                   |                                 |                   |
|--------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------|-------------------|
| Certificate No. (ATEX)         | KEMA97ATEX1798U                                                                                   | Certificate No. (IECEX)         | IECEXKEM06.0014U  |
| Max. voltage (ATEX)            | 550 V                                                                                             | Current (ATEX)                  | 36 A              |
| Wire cross section max. (ATEX) | 6 mm <sup>2</sup>                                                                                 | Max. voltage (IECEX)            | 550 V             |
| Current (IECEX)                | 36 A                                                                                              | Wire cross section max. (IECEX) | 6 mm <sup>2</sup> |
| 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 | 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 | Yes   | Number of similar terminals | 1       |
| Open sides               | right | Type of mounting            | Snap-on |

### CSA rating data

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

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### Conductors for clamping (rated connection)

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

### Rating data

|                                             |                   |                                              |         |
|---------------------------------------------|-------------------|----------------------------------------------|---------|
| Rated cross-section                         | 6 mm <sup>2</sup> | Rated voltage                                | 800 V   |
| Rated current                               | 41 A              | Current at maximum wires                     | 57 A    |
| Standards                                   | IEC 60947-7-1     | Volume resistance according to IEC 60947-7-x | 0.78 mΩ |
| Power loss in accordance with IEC 60947-7-x | 1.31 W            | Rated impulse withstand voltage              | 8 kV    |
| Pollution severity                          | 3                 |                                              |         |

### UL rating data

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

### Classifications

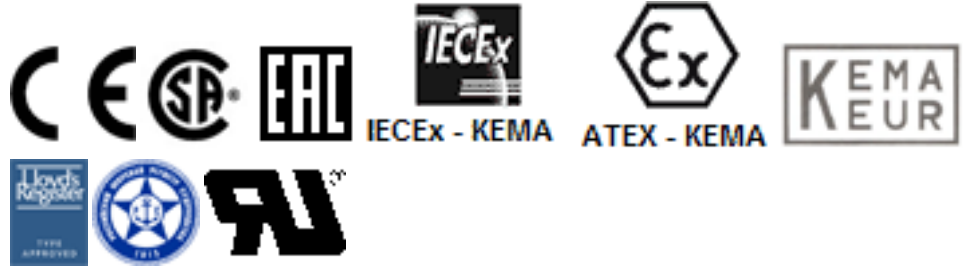
|             |             |            |             |
|-------------|-------------|------------|-------------|
| ETIM 6.0    | EC000897    | ETIM 7.0   | EC000897    |
| eClass 9.0  | 27-14-11-20 | eClass 9.1 | 27-14-11-20 |
| eClass 10.0 | 27-14-11-20 | UNSPSC     | 30-21-18-11 |

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**Technical data****Approvals**

Approvals



ROHS

Conform

**Downloads**

|                                             |                                                                                  |
|---------------------------------------------|----------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Attestation Of Conformity<br/>DE_PT1341_20160418_435_ISSUE01.pdf</a> |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>                                                     |
| User Documentation                          | <a href="#">StorageConditionsTerminalBlocks</a>                                  |

**Safety note**

|               |                                    |
|---------------|------------------------------------|
| Safety notice | <a href="#">Safety Information</a> |
|---------------|------------------------------------|



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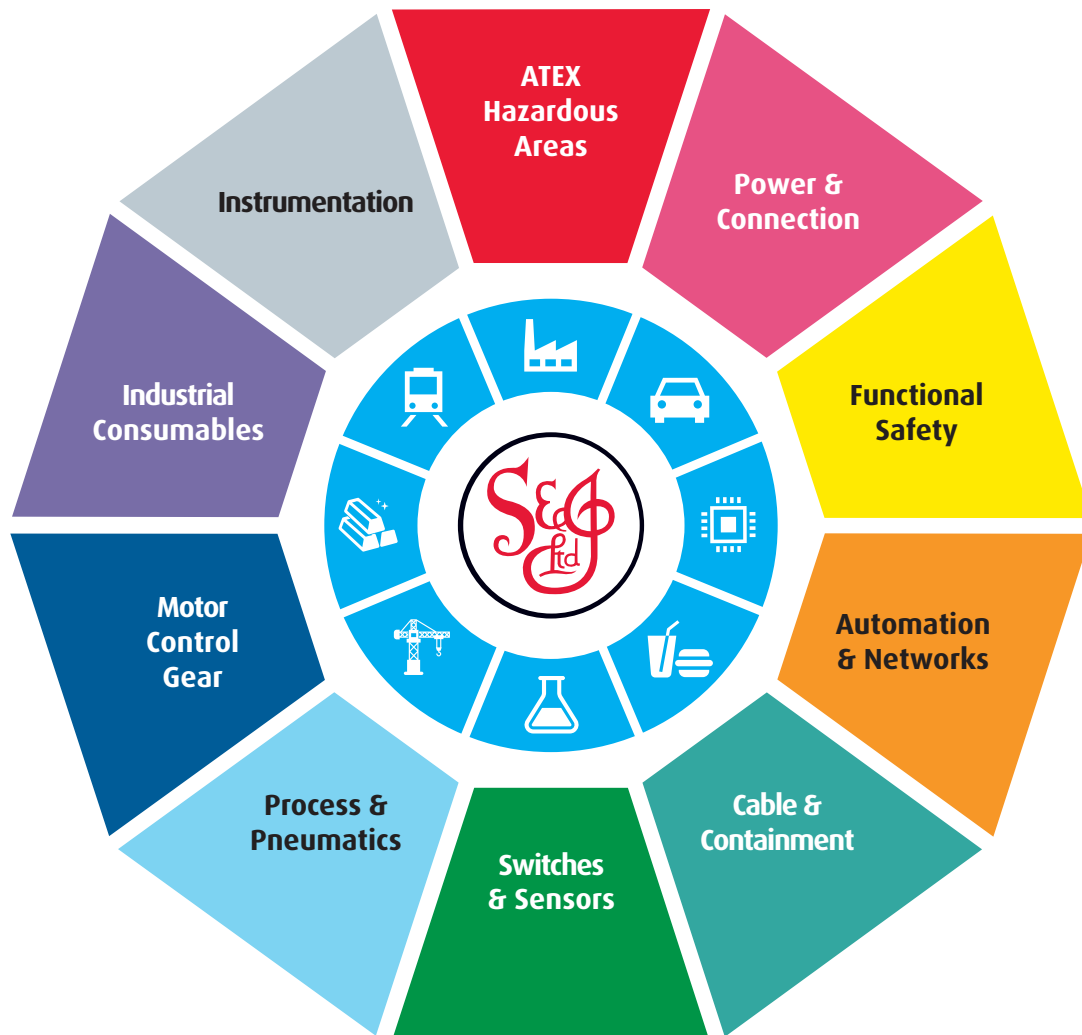
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