

**SAK Series**  
**SAK 6N**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
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**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**

Type	SAK 6N
Order No.	<a href="#">0193260000</a>
Version	SAK Series, Feed-through terminal, Rated cross-section: 6 mm <sup>2</sup> , Screw connection, Beige, Direct mounting
GTIN (EAN)	4008190031893
Qty.	100 pc(s).

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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	14.19 g		

**Temperatures**

Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	100 °C
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**Material data**

Material	PA 66	Colour	beige / yellow
UL 94 flammability rating	V-2		

**Rating data IECEx/ATEX**

Certificate No. (ATEX)	KEMA97ATEX1798U	Max. voltage (ATEX)	550 V
Current (ATEX)	36 A	Wire cross section max. (ATEX)	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 2014/34/EU label	II 2 G D		Ex e II

**System specifications**

Tightening torque (clamping screw for copper conductors)	1.2...1.6 Nm	End cover plate required	Yes
Number of potentials	1	Number of levels	1
No. 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	No
PE function	No	PEN function	No

**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 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		

**Conductors for clamping (additional connection)**

Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max.	6 mm <sup>2</sup>
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**Technical data****Conductors for clamping (rated connection)**

Blade size	4.0 x 0.8 mm	Clamping range, rated connection, max.	10 mm <sup>2</sup>
Clamping range, rated connection, min.	0.33 mm <sup>2</sup>	Clamping screw	M 3.5
Connection direction		Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min.	0.5 mm <sup>2</sup>
	on side	Number of connections	2
Gauge to IEC 60947-1	A5	Tightening torque, max.	1.6 Nm
Stripping length	12 mm	Torque level with DMS electric screwdriver	3
Tightening torque, min.	1.2 Nm	Twin wire-end ferrules, min.	0.5 mm <sup>2</sup>
Twin wire-end ferrules, max.	4 mm <sup>2</sup>	Wire connection cross section AWG, min.	AWG 22
Type of connection	Screw connection	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min.	0.5 mm <sup>2</sup>
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max.	6 mm <sup>2</sup>	Wire connection cross section, solid core max. rated connection	10 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	10 mm <sup>2</sup>	Wire connection cross section, stranded, rated connection, max.	6 mm <sup>2</sup>
Wire connection cross section, solid core, min. rated connection	0.5 mm <sup>2</sup>	Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max.	6 mm <sup>2</sup>
Wire connection cross section, stranded, rated connection, min.	0.5 mm <sup>2</sup>		
Wire connection cross-section, finely stranded, 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
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 3.0	EC000897	ETIM 4.0	EC000897
ETIM 5.0	EC000897	ETIM 6.0	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
eClass 8.1	27-14-11-20	eClass 9.0	27-14-11-20
eClass 9.1	27-14-11-20		

**Product information**

Descriptive text ordering data	With AWG 6 and H07V-R10 conductors, an increased MD torque of 1.4 to 1.6 Nm must be applied.
Descriptive text technical data	Tightening torque for AWG 8-7 and AWG 8-19 is 1.2 - 1.4 Nm
Descriptive text accessories	When used with twin wire-end ferrules ZH 0.5 - ZH 4, the rated voltage is 690 V.

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Catalogue status 29.12.2017 / We reserve the right to make technical changes.

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**Data sheet**

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**Technical data**

**Approvals**

Approvals



ROHS Conform

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">CFAT_SAK 6N.pdf</a> <a href="#">DE_PT1331_20160414_046_ISSUE01.pdf</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
User Documentation	<a href="#">Cross Connection Guide</a>

**Safety note**

Safety notice [Safety Information](#)