SAK Series
SAK 6/35 PA/BL

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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 easer and optimises operational safety. Klippon® Connect provides a proven response to a range of different requirements.

General ordering data

Type	SAK 6/35 PA/BL
Order No.	0380580000
Version	SAK Series, Feed-through terminal, Rated cross-section: 6 mm², Screw connection, Blue
GTIN (EAN)	4008190029050
Qty.	100 pc(s).

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Technical data

Dimensions and weights

Width	8 mm	Width (inches)	0.315 inch
Height	45 mm	Height (inches)	1.772 inch
Depth	44 mm	Depth (inches)	1.732 inch
Net weight	13.39 g		

Temperatures

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

Material data

Material	PA 66	Colour	Blue
UL 94 flammability rating	V-2		

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 mm²	Max. voltage (IECEX)	690 V
Current (IECEX)	36 A	Wire cross section max. (IECEX)	6 mm²
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	Tightening torque (clamping screw for copper conductors)	0.8...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 35
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		

Conductors for clamping (additional connection)

Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max.	6 mm²

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Technical data

Conductors for clamping (rated connection)

Blade size	4.0 x 0.8 mm	Clamping range, max.	10 mm²
Clamping range, min.	0.33 mm²	Clamping screw	M 3.5
Connection cross-section, stranded, max.	6 mm²	Connection cross-section, stranded, min.	0.5 mm²
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 mm²
Twin wire-end ferrules, min.	0.5 mm²	Type of connection	Screw connection
Wire connection cross section AWG, max.	AWG 8	Wire connection cross section AWG, min.	AWG 22
Wire connection cross section, finely stranded, max.	10 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.	0.5 mm²	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.	0.5 mm²	Wire connection cross-section, finely stranded, min.	0.5 mm²
Wire connection cross-section, solid core, max.	10 mm²	Wire connection cross-section, solid core, min.	0.5 mm²

Dimensions

TS 35 offset	31.7 mm

Rating data

Rated cross-section	6 mm²	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		

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Technical data

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
Instructions for accessories	When used with twin wire-end ferrules ZH 0.5 - ZH 4, the rated voltage is 690 V.

Approvals

Approvals	
ROHS	Conform

Downloads

Approval/Certificate/Document of Conformity	Attestation Of Conformity IECEx Certificate DE_PT1301_20160414_036_ISSUE01.pdf
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
User Documentation	Cross Connection Guide Usage of terminals in EXi atmospheres

Safety note

Safety notice	Safety Information

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Accessories

Covers



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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
AD 4 SAK6N	0196600000	SAK Series, cover plate, Yellow, 31.6 mm	4008190169336	50 pc(s).

Q / SAK



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General ordering data

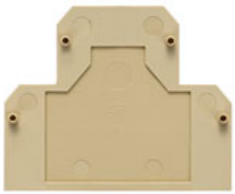
Type	Order No.	Version	GTIN (EAN)	Qty.
Q 10 SAK6N	0457000000	SAK Series, Cross-connector, for cross-connection link, No. of poles: 10	4008190153762	20 pc(s).
Q 2 SAK6N	0456700000	SAK Series, Cross-connector, for cross-connection link, No. of poles: 2	4008190150044	50 pc(s).
Q 3 SAK6N	0456800000	SAK Series, Cross-connector, for cross-connection link, No. of poles: 3	4008190110277	50 pc(s).
Q 4 SAK6N	0456900000	SAK Series, Cross-connector, for cross-connection link, No. of poles: 4	4008190032579	50 pc(s).

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Accessories

End plates



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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
AP SAK4-10 DB	0105100000	SAK Series, End plate, 1.5 mm, Dark Beige, Direct mounting	4008190394875	20 pc(s).
AP SAK4-10	0117960000	SAK Series, End plate, 1.5 mm, Beige, Direct mounting	4008190081485	20 pc(s).
AP SAK4-10 BL	0117980000	SAK Series, End plate, 1.5 mm, Blue, Direct mounting	4008190171087	20 pc(s).
AP SAK4-10 RT	0117900000	SAK Series, End plate, 1.5 mm, Red, Direct mounting	4008190125059	20 pc(s).

Plus

The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.
Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/8 PLUS MC NE WS	1046350000	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 Weidmueller, White	4032248782055	800 pc(s).

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Accessories

Locking tabs



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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
VL 2 SAK6N/ SAKT	0194700000	SAK Series, Cross-connection lug, for cross-connection link, No. of poles: 2	4008190148027	50 pc(s).

DEK 5/8



WS/ DEK
MultiMark DEK/WS connector markers use an innovative composite material made from two components. The hard base contour of the marker snaps securely into the connector. The elastic surface finish makes the marker easy to mount. This specially punched material enables the strips to be stretched to accommodate the slight variations in spacing that tend to add up, especially with long terminal blocks. Another advantage: the excellent printability of the surface material guarantees durable and wear-resistant labelling. A print resolution of 300 dpi also produces a very legible script.
Your benefits with MultiMark

- Compatible with Weidmüller molular terminal blocks
- Firm hold and durable printing
- Continuous strips save installation time
- Easy mounting thanks to an innovative composite material
- Large label field for optimal legibility
- High levels of flexibility thanks to manufacturer-independence

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/8 MM WS	2007130000	Dekafix, Terminal marker, 5 x 8 mm, Weidmueller, White	4050118392012	500 pc(s).

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Accessories

Non-insulated sockets



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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
STB 14/ D6/4/M3 SAK10	0169900000	Accessories, Socket	4008190076665	50 pc(s).

Connection sleeves



VH 12/4.9/3.3 024900

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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
VH 19/5/3.5 SAK4-16	0285100000	SAK Series, Connecting sleeve, for cross-connection link, No. of poles: 1	4008190189297	50 pc(s).

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Accessories

Custom printing



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Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

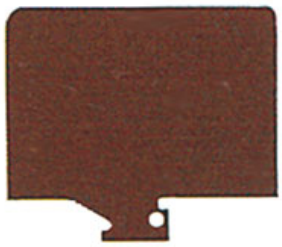
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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/8 MC SDR	1856750000	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 Weidmueller, To customer specification	4032248400867	160 pc(s).
DEK 5/8 PLUS MC SDR	1046370000	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 Weidmueller, To customer specification	4032248782079	160 pc(s).

Partition plates



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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
TW 4 SAK4-10	0130160000	SAK Series, Seperation plate, 1.5 mm, Beige	4008190096335	20 pc(s).
TW 4 SAK4-10 BL	0130180000	SAK Series, Seperation plate, 1.5 mm, Blue	4008190114138	20 pc(s).

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Accessories

Test plug



Current and voltage transformer wiring
Our test disconnect terminal blocks featuring spring and screw connection technology allow you to create all the important converter circuits for measuring current, voltage and power in a safe and sophisticated way.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
PS 4 F.STB 4	0299600000	Accessories, Test plug	4008190074043	20 pc(s).

Blank



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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/8 MC NE WS	1856740000	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 Weidmueller, White	4032248400850	800 pc(s).