

**SAK terminal with screw connection  
SAK 35/35 BL**

**Weidmüller Interface GmbH & Co. KG**  
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The Weidmüller SAK feed-through terminals satisfy the requirements of IEC 60947-1 and are available with rated cross-sections from 0.08 mm<sup>2</sup> to 240 mm<sup>2</sup>.

**General ordering data**

Order No.	<a href="#">0380780000</a>
Part designation	SAK 35/35 BL
Version	SAK terminal with screw connection, Feed-through terminal, Rated cross-section: 35 mm <sup>2</sup> , Screw connection, PA 66, blue
GTIN (EAN)	4008190021986
Qty.	20 pc(s).

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**Technical data**

**CSA ratings data**

Certificate no.	154685-1501714	Voltage size C	600 V
Current size C (CSA)	145 A	Conductor cross-section, max.	2 AWG
Conductor cross-section, min.	12 AWG		

**Strap connection**

Strap 1, min.	3 layers 9 x 0.8	Strap 1, max.	9 layers 9 x 0.8
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**UL ratings data**

Certificate no.	E60693VOL1SEC14	Voltage size C	600 V
Current size C (UR)	105 A	Conductor size Factory wiring, max	2 AWG
Conductor size Factory wiring, min	6 AWG	Conductor size Field wiring, max	2 AWG

**IECEX/ATEX rating data**

Certificate no.	KEMA97ATEX1798U	ATEX certificate	KEMA97ATEX1798U_d.pdf
ATEX certificate	KEMA97ATEX1798U_e.pdf	Certificate no.	IECEXKEM06.0014U
max. voltage	550 V	Current (ATEX)	109 A
Conductor cross-section, max.	35 mm <sup>2</sup>	max. voltage	550 V
Current (IECEX)	109 A	Conductor cross-section, max.	35 mm <sup>2</sup>
Voltage when using cross-connections	CrossConnectionGuide.pdf	Operating temperature range	
Marking EN 60079-7	Ex e II		

**Additional technical data**

Colour of insulating material	blue	Connection direction	on side
End cover plate required	Yes	Explosion-tested version	Yes
Flammability class UL 94	V-2	Insulating material	PA 66
Levels cross-connected internally	No	No. of clamping points per level	2
Number of identical terminals	1	Number of levels	1
Open sides	right	Operating temperature range, max.	100 °C
Operating temperature range, min.	-50 °C	Product family	SAK terminal with screw connection
Type of connection	Screw connection	Type of mounting	Clamped

**Conductors for clamping (additional connection)**

Rated current	125 A	Type of connection	Screw connection
Clamping screw	M 6	Blade size	6.5 x 1.2 mm
Tightening torque, max.	5 Nm	Tightening torque, min.	4 Nm
Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, min.	2.5 mm <sup>2</sup>	Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max.	35 mm <sup>2</sup>
Conductor connection cross-section AWG, min.	AWG 12	Conductor connection cross-section AWG, max.	AWG 2

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**Technical data**
**Conductors for clamping (rated connection)**

Clamping range, min.	2.5 mm <sup>2</sup>	Clamping range, max.	50 mm <sup>2</sup>
Type of connection	Screw connection	Connection direction	on side
No. of connections	2	Stripping length	18 mm
Clamping screw	M 6	Blade size	6.5 x 1.2 mm
Tightening torque, min.	4 Nm	Tightening torque, max.	5 Nm
Gauge to IEC 60947-1	B8	Conductor cross-section, solid, min.	2.5 mm <sup>2</sup>
Conductor cross-section, solid, max.	16 mm <sup>2</sup>	Stranded, min.	4 mm <sup>2</sup>
Stranded, max.	50 mm <sup>2</sup>	Conductor cross-section, flexible, max.	35 mm <sup>2</sup>
Conductor cross-section, flexible plus plastic collar DIN 46228/1, rated connection, min.	2.5 mm <sup>2</sup>	Conductor cross-section, flexible plus plastic collar DIN 46228/1, rated connection, max.	35 mm <sup>2</sup>
Conductor cross-section, flexible AEH plus plastic collar DIN 46228/4, rated connection, min.	2.5 mm <sup>2</sup>	Conductor cross-section, flexible AEH plus plastic collar DIN 46228/4, rated connection, max.	35 mm <sup>2</sup>
Twin wire-end ferrule, min.	1.5 mm <sup>2</sup>	Twin wire-end ferrule, max.	16 mm <sup>2</sup>
Conductor connection cross-section AWG, min.	AWG 12	Conductor connection cross-section AWG, max.	AWG 2

**Rating data**

Rated cross-section	35 mm <sup>2</sup>	Rated voltage	1,000 V
Rated impulse withstand voltage	8 kV	Rated current	125 A
Standards	IEC 60947-7-1	Current with max. conductor	150 A
Pollution severity	3		

**Approvals**

Approvals institutes	CSA; GERMLLOYD; GOSTME25; IECEXKEM; KEMAATEX; KEMAKEUR; LLOYDSREG; MARITREG; RINA; UR; CE
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**Classifications**

ETIM 2.0	EC000897	ETIM 3.0	EC000897
eClass 5.1	27-14-11-20	eClass 6.0	27-14-11-20

**Product notes**

Note, ordering data	It is possible to use twin ferrules with identical rated voltages (LAB 13090).
Note, accessories	If QIs are aligned side by side, then a TW/AP must be used.