CONTA-CONNECT

Screw-distributor blocks
SVBKA | SVBA | SVB

Product Information

Contents

CONTA-CLIP:
thinking ahead for connection systems

CONTA-CLIP was founded in 1977.
We operate globally as an owner-operated medium-sized company.

Users of electrical and electronic connection systems rely on our reliable products and our many years of industrial and global market expertise.

Our company is now one of the most important manufacturers in the field.

For over 40 years, our components and solutions have been used in various process and industrial automation applications, including: railway technology, materials handling, building automation, air conditioning, mechanical and facility engineering, measurement and control technology, control panel construction, shipbuilding, transformer construction and environmental technology.

Over the years, we have evolved into an innovator that sets the tone with new ideas and creative impulses.

Our employees come from a wide variety of industries and view themselves as true connectivity specialists. They understand the specific problems, requirements and challenges of our customers. This results in communication among equals.

The profits then flow into the development of new products as well as into modern, efficient manufacturing processes.

A high quality standard throughout all departments is our number one priority.

Our top-class products are supported by this interplay between top-class men and machinery. We have also designed our range of services to align with customer needs.

Our products are divided into six categories: CONTA-CONNECT for terminal blocks and accessories, CONTA-ELECTRONICS for electrical and electronic control cabinet components, CONTA-LABEL for marking systems, Cable Management Systems, CONTA-BOX for housings and CONTA-CON for PCB terminal blocks and connectors.

We design customer-specific solutions for electronics, provide completely assembled housings and assemblies as needed, assemble terminal blocks for series production, and quickly handle component labelling tasks.

We greet these challenges with passion and enthusiasm, because we see each customer as our partner.

CONTA-CLIP customer representatives are always ready to offer their support to the customer, because service and helpfulness are rooted deeply in our corporate philosophy.

Advantage online: the CONTA-CLIP Online Catalogue

No matter where you are, as long as you're online you can access our digital catalogue to view our service portfolio and quickly identify suitable solutions for your requirements.

Fast results Use the full-text search, enter an order number or use the convenient "step-by-step" feature search function.

Project planning at a glance: After you've selected the products, all the master data for the materials (sales data, technical data, drawings, descriptions, classifications and approvals) are available as a data sheet or export file.

Detailed inquiries about components can be sent via the shopping cart directly to our headquarters. Upon request, you will receive an e-mailed copy of your inquiry.

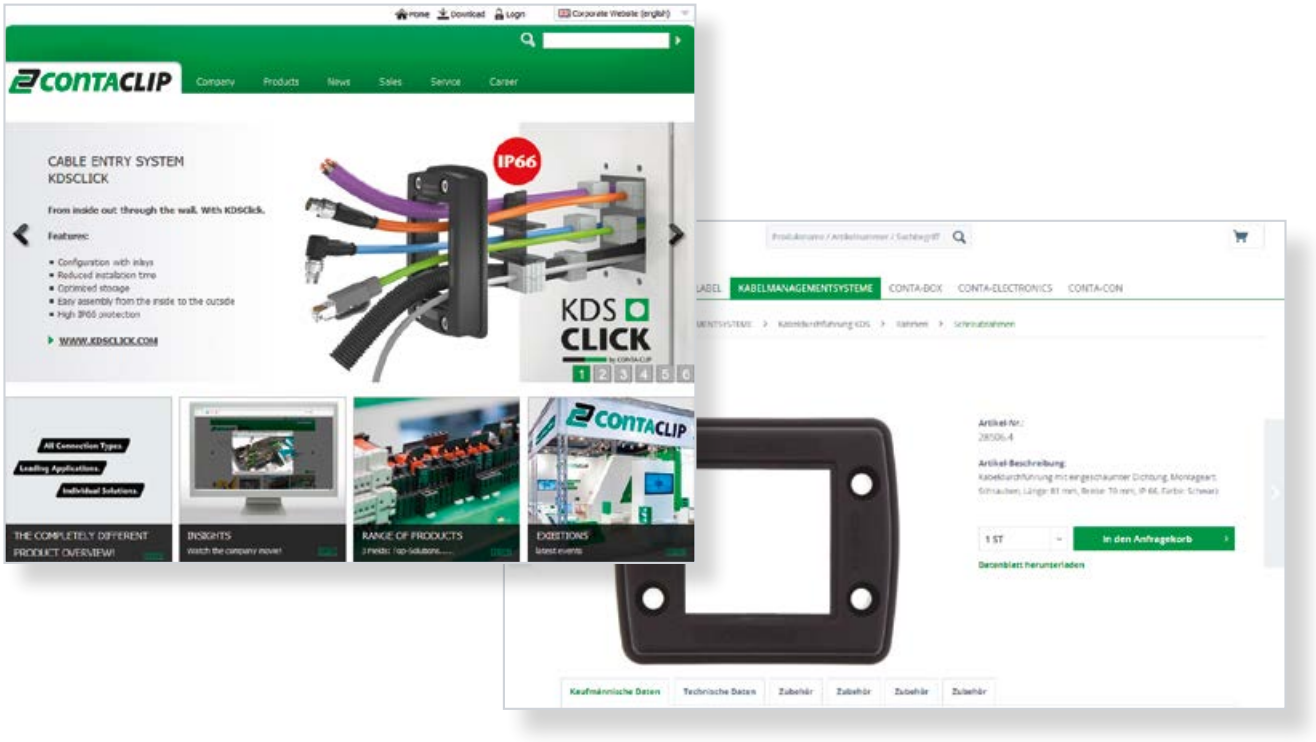
Application films: Complex functions be explained easily and clearly with sounds and images.

Printed catalogue: Would you like an offline overview? Please ask for our free printed catalogues.

Industry-specific: You will find the solutions that are relevant for your industry, according to your expertise.

Newsletter: Do you want to stay up to date? Subscribe to our newsletter! Simply register, confirm our authentication e-mail, and you'll be regularly informed about all CONTA-CLIP news.

Discover how the world of CONTA-CLIP and our website can deliver added value to you and your projects!



Globally available for you

Are you working abroad? No problem. Our worldwide sales and distribution partners help us to be globally networked and provide on-time reliable deliveries. Simply scan the QR code shown and you'll learn on our website about the sales partner responsible for your country.

Our locations in Africa
- Algeria
- Morocco
- South Africa

Our locations in Asia
- Bahrain
- China
- Hong Kong
- India
- Israel
- Jordan
- Malaysia
- Oman
- Pakistan
- Qatar
- Saudi Arabia
- Singapore
- South Korea
- Taiwan
- Turkey
- United Arab Emirates

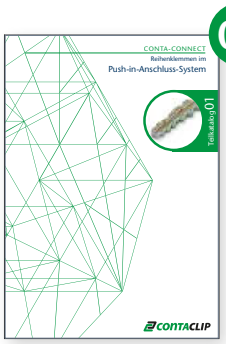
Our locations in Australia
- Australia
- New Zealand

Our locations in Europe
- Austria
- Belarus
- Belgium
- Bosnia and Herzegovina
- Bulgaria
- Croatia
- Czech Republic
- Denmark
- Finland
- In France:
- In Germany:
- Greece
- Hungary
- Iceland
- Ireland
- In Italy:
- Latvia
- In Holland:
- Norway
- Poland
- Portugal
- Romania
- In Russia:
- Serbia
- Slovakia
- Slovenia
- Spain
- Sweden
- Switzerland
- Ukraine
- Great Britain

Our locations in North America
- Canada
- Mexico
- United States

Our locations in South America
- Bolivia
- Brazil
- Chile
- Ecuador

A complete line of products for your challenges
The CONTA-CLIP Catalogues



CONTA-CONNECT

Terminal blocks with Push-in connection system

Our wide range of innovative PRK and FRK terminal series with the Push-in connection system include feed-through terminals, PE terminals, disconnect terminals, fused terminals, multi-level terminals, installation terminals and initiator terminals, for conductor cross-sections from 0.2 mm² to 25 mm².

Cat. no. 98070.2

CONTA-CONNECT

Terminal blocks with screw connection system and special terminals

Everything for classic wiring with screw connection systems (also for high currents): SRK feed-through and PE terminals, RK high-temperature variants, TK transformer terminals, HSK high-power stud terminals, SVB series screw distributor blocks, and the modular feed-through terminal systems from the SDK series.

Cat. no. 98071.2

CONTA-CONNECT

Terminal blocks with tension-spring connection system

Our versatile line of terminals with tension spring connection systems for conductor cross-sections from 0.2 mm² to 16 mm² includes: the ZRK/ZSL series of feed-through and PE terminals, the double-level ZRKD/ZSLD, the ZIKD three-level terminal blocks, motor-connection terminals, (blade-) disconnect terminals, fused terminals, direct-mount terminals, and initiator/actuator terminals for transmitting positioning, encoder and alert signals.

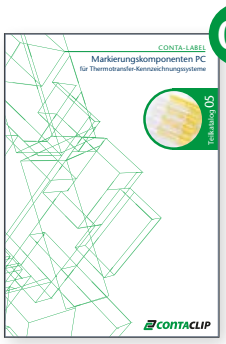
Cat. no. 98072.2

CONTA-CONNECT

Installation materials and other accessories for terminal blocks

Our installation products include cabling ducts, assembly tools, cable glands with metric or PG threads, DIN rials, rail cutters and punching tools. The terminal block accessories include different versions of end stops, wire-end ferrules and connectors.

Cat. no. 98073.2



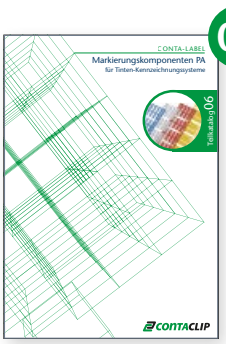
CONTA-LABEL

PC marking components for thermal transfer marking systems

CONTA-CLIP provides the TTPCard thermal-transfer printer and a large selection of PC, PVC and PVCF markers or labels in card format: for professional, permanent labelling of terminals, devices, conductors, cables, facilities and switchgear cabinets.

Cat. no. 98074.2

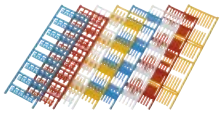
Our catalogues are available in many languages!



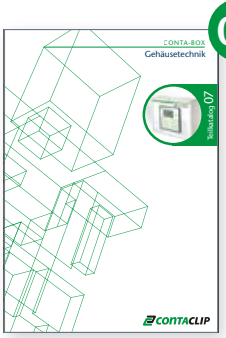
06 CONTA-LABEL

PA marking components for ink-based marking systems

The CONTA-LABEL products provide polyamide markers for labelling conductors, cables, devices and facilities with ink print. These markers are available in many shapes and colours: in the classic MC Maxicard format for self-printing with the EMS plotter system EMS or other ink-jet systems, or ready-to-use customized printed in the PMC Pocket-Maxicard format.



Cat. no. 98075.2



07 CONTA-BOX

Housings

Our wide variety of housings made of polystyrene, polycarbonate, polyester, ABS and aluminum deliver solutions for protecting electronic circuits, integrated devices and terminal blocks. On request, the housings can be provided with extensive processing and assembled with our CONTA-CONNECT, CONTA-ELECTRONICS and CONTA-CON product lines.

Cat. no. 98076.2

08 CABLE MANAGEMENT SYSTEMS

KDS cable entries | KES cable entries | SAB|SSAB|SABK shielding solutions

The KDS and KES cable entries enable a tool-free, IP66–sealed feed-through for unassembled and assembled cables and hoses. The feed-through openings can be adapted at any time to meet your requirements. The SAB shied-connection clips can be used to provide a reliable shield contact with conductor diameters from 3 mm to 35 mm.

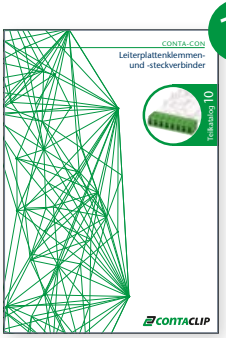
Cat. no. 98077.2

09 CONTA-ELECTRONICS

Electrical and electronic cabinet components

Our CONTA-ELECTRONICS products provide active and passive components for the transfer and conversion of analogue and digital signals at the coupling level. This product line includes power supplies, multi-function timing relays, coupling relays, digital switching modules, interface modules, opto-couplers, signal converters, GSM communication modules and much more.

Cat. no. 98078.2



10 CONTA-CON

PCB terminals and connectors

This catalogue presents our wide variety of CONTA-CON PCB terminal blocks and connector systems. The modular components can be configured for any required number of poles; They are available in the wire connection types: wire protection, eccentric, clamping yoke, and (for demanding operating conditions) with tension-spring or Push-in wire termination.

Cat. no. 98079.2

Screw-distributor blocks SVBKA

Screw connection system

The SVBKA screw-distributor block makes it possible to distribute potential and power in a compact space without any additional accessories. The SVBKA blocks can be used with aluminum and copper cables from 1.5 to 240 mm². They can be used in installation and distribution board construction and also in controller construction for machinery. The SVBKA blocks are mounted by snapping them on to TS 35 DIN rails. They can also be attached directly to a mounting plate using the screw flange located on the side of the housing.

The SVBKA screw-distributor blocks guarantee IP20 protection, even when you are connecting larger conductor cross-sections. For smaller cable cross-sections, finger safety is ensured by the BS-SVBKA covers (available as accessory).

The advantages

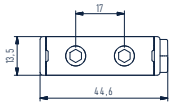
- Extremely compact design
- Easy to work with

Product overview | Drawings

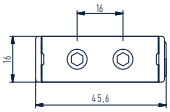
Features

- IP20 protection
- Wire connection cross-sections: 1.5 – 240 mm²
- Suitable for copper and aluminum cables
- Foot can be snapped on DIN 35 rail or directly mounted (from type SVBKA95)
- Housing made of polyamide 6.6 UL 94 V-0

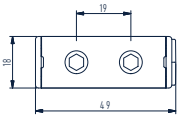
SVBKA 16



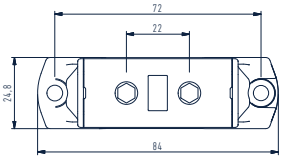
SVBKA 35



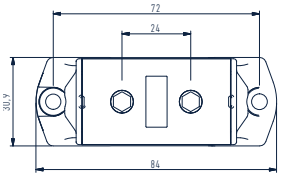
SVBKA 50



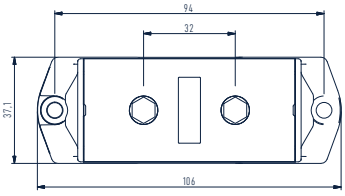
SVBKA 95



SVBKA 150



SVBKA 240



Screw-distributor blocks SVBKA

Screw-distributor blocks		SVBKA 16		SVBKA 35		SVBKA 50	
							
Description		Power distributor block 2 connections		Power distributor block 2 connections		Power distributor block 2 connections	
Connection type		Screw connection technology		Screw connection technology		Screw connection technology	
Size (L x W x H), mm							
Size (L x W x H) mm with TS 35 x 7.5 mm		44.6 x 13.5 x 42.5		46 x 16 x 43		49 x 18 x 46	
Type / colour		**SVBKA 16 LG** ●		**SVBKA 35 LG** ●		**SVBKA 50 LG** ●	
Cat. no.	**Qty.**	*27207.0*	**10**	*27208.0*	**10**	*27209.0*	**10**
Type / colour		**SVBKA 16 BU** ●		**SVBKA 35 BU** ●		**SVBKA 50 BU** ●	
Cat. no.	**Qty.**	*27207.5*	**10**	*27208.5*	**10**	*27209.5*	**10**
Type / colour		**SVBKA 16 GN** ●		**SVBKA 35 GN** ●		**SVBKA 50 GN** ●	
Cat. no.	**Qty.**	*27207.1*	**10**	*27208.1*	**10**	*27209.1*	**10**
Type / colour							
Cat. no.	**Qty.**						
Ratings		**IEC**		**IEC**		**IEC**	
Rated voltage AC/DC (V)		1000 / 1000		1000 / 1000		1000 / 1000	
Rated current Cu/Al (A)		82 / 75		135 / 120		160 / 145	
Rated cross-section for input and output, mm²		16 / 16		35 / 35		50 / 50	
Rated cross-section for input and output, AWG							
Rated surge voltage kV / Contamination degree		- / 3		- / 3		- / 3	
Flamm. class acc. to UL 94		V-0		V-0		V-0	
Short-circuit resistance rating							
SCCR rating (KA)							
Connection data							
Inputs							
Number of connections		1		1		1	
Clampable conductors mm² (AWG)		1.5–16		2.5–35		1.5–50	
Single-core (solid) mm² (AWG)		1.5–16		2.5–35		1.5–50	
Stranded (flexible) mm² (AWG)		1.5–16		2.5–35		1.5–50	
Finely stranded, with ferrule mm² (AWG)		1.5–10		2.5–25		2.5–35	
Finely stranded with ferrule and plastic collar mm² (AWG)		1.5–10		2.5–25		2.5–35	
Diameter, mm							
Torque, Nm		1.5 (1.5–6 mm²) / 7 (10–16 mm²)		3 (2.5–16 mm²) / 6 (25–35 mm²)		1.5 (1.5–2.5 mm²) / 5 (4–10 mm²) / 10 (16–50 mm²)	
Terminal screw		Inner hex (Allen)		Inner hex (Allen)		Inner hex (Allen)	
Blade size, mm		4		4		5	
Stripping length, mm		13		15		15	
Outputs							
Number of connections		1		1		1	
Clampable conductors mm² (AWG)		1.5–16		2.5–35		1.5–50	
Single-core (solid) mm² (AWG)		1.5–16		2.5–35		1.5–50	
Stranded (flexible) mm² (AWG)		1.5–16		2.5–35		1.5–50	
Finely stranded, with ferrule mm² (AWG)		1.5–10		2.5–25		2.5–35	
Finely stranded with ferrule and plastic collar mm² (AWG)		1.5–10		2.5–25		2.5–35	
Diameter, mm							
Torque, Nm		1.5 (1.5–6 mm²) / 7 (10–16 mm²)		3 (2.5–16 mm²) / 6 (25–35 mm²)		1.5 (1.5–2.5 mm²) / 5 (4–10 mm²) / 10 (16–50 mm²)	
Terminal screw		Inner hex (Allen)		Inner hex (Allen)		Inner hex (Allen)	
Blade size, mm		4		4		5	
Stripping length, mm		13		15		15	
Features							
Material of insulated housing / Temperature range		PA6.6 / -40 to +120 °C		PA6.6 / -40 to +120 °C		PA6.6 / -40 to +120 °C	
Test pick-off options (single-wire / finely stranded with ferrule mm²)							
Protection		IP20*		IP20*		IP20*	
Accessories							
Touch protection						**BS-SVBKA 50 LG**	
Cat. no.	**Qty.**					*27213.0*	**10**
End stop ES		**ES 35**		**ES 35**		**ES 35/K/ST BG**	
Cat. no.	**Qty.**	*2005.2*	**50**	*2005.2*	**50**	*2828.0*	**50**
Allen key socket wrench ISKS						**ISKS 5**	
Cat. no.	**Qty.**					*2818.0*	**1**

* IP20 for largest cable cross-section

SVBKA 95	SVBKA 150	SVBKA 240	Touch protection
			
Power distributor block 2 connections	Power distributor block 2 connections	Power distributor block 2 connections	Touch protection
Screw connection technology	Screw connection technology	Screw connection technology	
85 x 24.8 x 51	84 x 30.9 x 54	106 x 37.1 x 65	
85 x 24.8 x 54	84 x 30.9 x 57	106 x 37.1 x 68	
SVBKA 95 LG ●	**SVBKA 150 LG** ●	**SVBKA 240 LG** ●	**BS-SVBKA 50 LG** ●
27210.0 **10**	*27211.0* **10**	*27212.0* **10**	*27213.0* **10**
SVBKA 95 BU ●	**SVBKA 150 BU** ●	**SVBKA 240 BU** ●	**BS-SVBKA 95 LG** ●
27210.5 **10**	*27211.5* **10**	*27212.5* **10**	*27214.0* **10**
SVBKA 95 GN ●	**SVBKA 150 GN** ●	**SVBKA 240 GN** ●	**BS-SVBKA 150 LG** ●
27210.1 **10**	*27211.1* **10**	*27212.1* **10**	*27215.0* **10**
			BS-SVBKA 240 LG ●
			27216.0 **10**
IEC	**IEC**	**IEC**	
1000 / 1000	1000 / 1000	1000 / 1000	
250 / 220	320 / 290	425 / 380	
95 / 95	150 / 150	240 / 240	
- / 3	- / 3	- / 3	
V-0	V-0	V-0	V-0
1	1	1	
6–95	25–150	35–240	
6–95	25–150	35–240	
6–95	25–150	35–240	
6–70	25–120	35–185	
6–70	25–120	35–185	
12 (6–25 mm²) / 22 (35–95 mm²)	14 (25–50 mm²) / 30 (70–150 mm²)	26 (35–120 mm²) / 40 (150–240 mm²)	
Inner hex (Allen)	Inner hex (Allen)	Inner hex (Allen)	
6	6	8	
20	20	30	
1	1	1	
6–95	25–150	35–240	
6–95	25–150	35–240	
6–95	25–150	35–240	
6–70	25–120	35–185	
6–70	25–120	35–185	
12 (6–25 mm²) / 22 (35–95 mm²)	14 (25–50 mm²) / 30 (70–150 mm²)	26 (35–120 mm²) / 40 (150–240 mm²)	
Inner hex (Allen)	Inner hex (Allen)	Inner hex (Allen)	
6	6	8	
20	20	30	
PA6.6 / -40 to +120 °C	PA6.6 / -40 to +120 °C	PA6.6 / -40 to +120 °C	PA6.6 / -40 to +120 °C
IP20*	IP20*	IP20*	IP20
BS-SVBKA 95 LG	**BS-SVBKA 150 LG**	**BS-SVBKA 240 LG**	
27214.0 **10**	*27215.0* **10**	*27216.0* **10**	
ES 35/K/ST BG	**ES 35/K/ST BG**	**ES 35/K/ST BG**	
2828.0 **50**	*2828.0* **50**	*2828.0* **50**	
ISKS 6	**ISKS 6**	**ISKS 8**	
2772.0 **1**	*2772.0* **1**	*2773.0* **1**	

Note:
These distributor blocks are suitable for connecting aluminum and copper conductors. Follow the standard processing guidelines for connecting aluminum wires! The contact surfaces of the aluminum wires must be cleaned, brushed and treated with suitable grease. The contact terminals should be re-tightened approx. 6 to 8 weeks.

Screw-distributor blocks SVBA

Screw connection system

The SVBA screw-distributor block makes it possible to distribute potential and power in a compact space without any additional accessories. You can use the distributor block to establish an electromechanical connection between a wire with a large cross-section and one or more wires with small cross-sections. They can be used in installation and distribution board construction and also in controller construction for machinery. The SVBA blocks are mounted by snapping them on to TS 35 DIN rails. They can also be attached directly to a mounting plate using the screw flange located on the side of the housing. The individual blocks can be simply clicked together using a plastic connecting clip.

The SVBA blocks are suitable for aluminum and copper cables from 1.5 to 500 mm². They can be easily encoded using the exchangeable colour-coded marking plates for the N, PE, phases (plates are included in delivery). In addition, the built-in adjustable phase tag makes it easy to display which phase is applied to the block.

The advantages

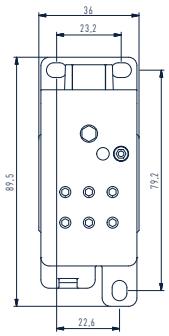
- Easy to work with
- Space-saving design
- Easy to align side-by-side with connection clip (not for the SVBA 1100A)
- Finger safety (according to IP20) is ensured by safety gate for each cross-section

Product overview | Drawings

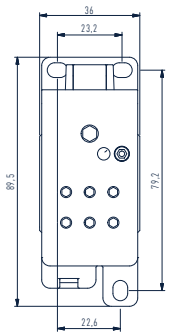
Features

- IP20 protection (SVBA 1100A: IP10)
- Foot base can be snapped on TS 35 DIN rail or suitable for direct mounting
- Built-in adjustable phase marking (not for SVBA 1100A)
- Interchangeable markings for N, PE, DC + etc. (not for SVBA 1100A)
- Suitable for copper and aluminum conductors
- Housing made of polyamide 6.6 UL 94 V-0

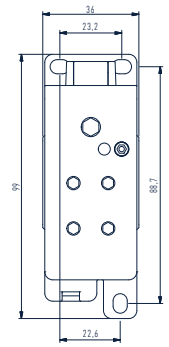
SVBA 85A



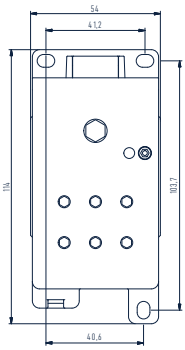
SVBA 115A



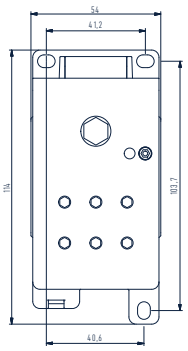
SVBA 175A



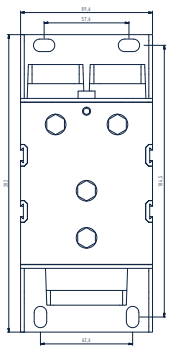
SVBA 255A



SVBA 380A



SVBA 1100A



Screw-distributor blocks SVBA

Screw-distributor blocks	SVBA 85A	SVBA 115A	SVBA 175A
			
Description	Power distributor block 7 connections	Power distributor block 7 connections	Power distributor block 5 connections
Connection type	Screw connection technology	Screw connection technology	Screw connection technology
Size (L x W x H), mm	89.5 x 36 x 49	89.5 x 36 x 49	99 x 36 x 53
Size (L x W x H) mm with TS 35 x 7.5 mm	89.5 x 36 x 52	89.5 x 36 x 52	99 x 36 x 56
Type / colour	**SVBA 85A** ●	**SVBA 115A** ●	**SVBA 175A** ●
Cat. no. **Qty.**	*27200.0* **1**	*27201.0* **1**	*27202.0* **1**
Ratings	**IEC** **UL**	**IEC** **UL**	**IEC** UL
Rated voltage AC/DC (V)	1000 / 1500 1000 / 1000	1000 / 1500 1000 / 1000	1000 / 1500 1000 / 1000
Rated current Cu / Al (A)	80 / 63 85 / 65	125 / 100 115 / 90	175 / 135 175 / 135
Rated cross-section for input and output, mm²	25 / 10	50 / 25	70 / 35
Rated cross-section for input and output, AWG	14–3 / 14–8	14–1 / 14–4	14–2/0 / 14–2
Rated surge voltage kV / Contamination degree	20 / 3	20 / 3	20 / 3
Flamm. class acc. to UL 94	V-0	V-0	V-0
Short-circuit resistance rating			
Short-circuit current resistance ICW over 1s, kA			
SCCR rating (KA)	100	100	100
Connection data			
Inputs			
Number of connections	1	1	1
Clampable conductors mm² (AWG)	2.5–25 (14–3)	2.5–50 (14–1)	2.5–70 (14–2/0)
Single-core (solid) mm² (AWG)	2.5–25 (14–3)	2.5–50 (14–1)	2.5–70 (14–2/0)
Stranded (flexible) mm² (AWG)	2.5–25 (14–3)	2.5–50 (14–1)	2.5–70 (14–2/0)
Finely stranded, with ferrule mm² (AWG)	2.5–25 (14–3)	2.5–35 (14–2)	2.5–50 (14–1/0)
Finely stranded with ferrule and plastic collar mm² (AWG)	2.5–25 (14–3)	2.5–35 (14–2)	2.5–50 (14–1/0)
Diameter, mm	10.5	10.5	12.5
Torque, Nm	3.5	4	4
Terminal screw	Inner hex (Allen)	Inner hex (Allen)	Inner hex (Allen)
Blade size, mm	5	5	6
Stripping length, mm	20	20	20
Outputs			
Number of connections	6	6	4
Clampable conductors mm² (AWG)	2.5–10 (14–8)	2.5–25 (14–4)	2.5–35 (14–2)
Single-core (solid) mm² (AWG)	2.5–10 (14–8)	2.5–25 (14–4)	2.5–35 (14–2)
Stranded (flexible) mm² (AWG)	2.5–10 (14–8)	2.5–25 (14–4)	2.5–35 (14–2)
Finely stranded, with ferrule mm² (AWG)	2.5–6 (14–8)	1.5–16 (14–6)	2.5–25 (14–4)
Finely stranded with ferrule and plastic collar mm² (AWG)	2.5–6 (14–8)	1.5–16 (14–6)	2.5–25 (14–4)
Diameter, mm	4.4	7.0	8.5
Torque, Nm	2.0	2.0	3.5
Terminal screw	Inner hex (Allen)	Inner hex (Allen)	Inner hex (Allen)
Blade size, mm	2.5	3	4
Stripping length, mm	10	10	20
Features			
Material of insulated housing | Temperature range	PA6.6 / -40 to +120 °C	PA6.6 / -40 to +120 °C	PA6.6 / -40 to +120 °C
Test pick-off options (single-wire / finely stranded with ferrule mm²)			
Protection	IP20	IP20	IP20
Accessories			
Blue marking plate	**MP-SVBA BU**	**MP-SVBA BU**	**MP-SVBA BU**
Cat. no. **Qty.**	*27205.5* **5**	*27205.5* **5**	*27205.5* **5**
Red marking plate	**MP-SVBA RT**	**MP-SVBA RT**	**MP-SVBA RT**
Cat. no. **Qty.**	*27205.9* **5**	*27205.9* **5**	*27205.9* **5**
Green marking plate	**MP-SVBA GN**	**MP-SVBA GN**	**MP-SVBA GN**
Cat. no. **Qty.**	*27205.1* **5**	*27205.1* **5**	*27205.1* **5**
End stop ES	**ES 35 / K / ST BG**	**ES 35 / K / ST BG**	**ES 35 / K / ST BG**
Cat. no. **Qty.**	*2828.0* **50**	*2828.0* **50**	*2828.0* **50**
Allen key socket wrench ISKS	**ISKS 5**	**ISKS 5**	**ISKS 6**
Cat. no. **Qty.**	*2818.1* **1**	*2818.0* **1**	*2772.0* **1**

SVBA 255A	SVBA 380A	SVBA 1100A
		
Power distributor block 7 connections	Power distributor block 7 connections	Power distributor block 3 connections
Screw connection technology	Screw connection technology	Screw connection technology
114 x 54 x 60.7	114 x 54 x 65.7	202 x 90 x 107
114 x 54 x 63.7	114 x 54 x 68.7	
SVBA 255A ●	**SVBA 380A** ●	**SVBA 1100A** ●
27203.0 **1**	*27204.0* **1**	*27206.0* **1**
IEC **UL**	**IEC** **UL**	**IEC** **UL**
1000 / 1500 1000 / 1000	1000 / 1500 1000 / 1000	1000 / 1500
250 / 200 255 / 205	415 / 360 380 / 310	1100 / 900
120 / 35	240 / 35	500 / 300
2–250 kcmil / 14–2	2/0–500 kcmil / 14–2	
20 / 3	20 / 3	20 / 3
V-0	V-0	V-0
		60
100	100	
1	1	1
35–120 (2–250 kcmil)	70–240 (2/0–500 kcmil)	95–500
35–120 (2–250 kcmil)	70–240 (2/0–500 kcmil)	95–500
35–120 (2–250 kcmil)	70–240 (2/0–500 kcmil)	95–500
35–95 (2–4/0)	70–185 (2/0–400 kcmil)	95–500
35–95 (2–4/0)	70–185 (2/0–400 kcmil)	95–500
16.5	22.5	40
31	59	80
Inner hex (Allen)	Inner hex (Allen)	Inner hex (Allen)
8	10	12
30	30	68
6	6	2
2.5–35 (14–2)	2.5–35 (14–2)	50–300
2.5–35 (14–2)	2.5–35 (14–2)	50–300
2.5–35 (14–2)	2.5–35 (14–2)	50–300
2.5–25 (14–4)	2.5–25 (14–4)	50–240
2.5–25 (14–4)	2.5–25 (14–4)	50–240
8.5	8.5	26
3.5	3.5	50
Inner hex (Allen)	Inner hex (Allen)	Inner hex (Allen)
4	4	12
20	20	36
PA6.6 / -40 to +120 °C	PA6.6 / -40 to +120 °C	PA6.6 / -40 to +120 °C
		1.5–16 / 1.5–10
IP20	IP20	IP10
MP-SVBA BU	**MP-SVBA BU**	
27205.5 **5**	*27205.5* **5**	
MP-SVBA RT	**MP-SVBA RT**	
27205.9 **5**	*27205.9* **5**	
MP-SVBA GN	**MP-SVBA GN**	
27205.1 **5**	*27205.1* **5**	
ES 35 / K / ST BG	**ES 35 / K / ST BG**	
2828.0 **50**	*2828.0* **50**	
ISKS 8		
2773.0 **1**		

Note:
These distributor blocks are suitable for connecting aluminum and copper conductors. Follow the standard processing guidelines for connecting aluminum wires! The contact surfaces of the aluminum wires must be cleaned, brushed and treated with suitable grease. The contact terminals must be re-tightened regularly.

Screw-distributor blocks SVB

Screw connection system

The SVB screw-distributor block makes it possible to distribute potential and power in a compact space without any additional accessories. You can use the distributor block to establish an electromechanical connection between a wire with a large cross-section and one or more wires with small cross-sections. They can be used in installation and distribution board construction and also in controller construction for machinery.

The SVB blocks are mounted by snapping them on to TS 35 DIN rails. They can also be attached directly to a mounting plate using the screw flange located on the side of the housing.

The advantages

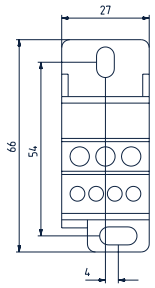
- High short-circuit resistance rating
- Easy to work with
- Space-saving design

Product overview | Drawings

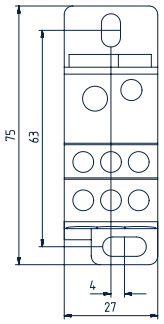
Features

- IP20 protection
- Foot base can be snapped on TS 35 DIN rail or suitable for direct mounting
- Modular design (single- or three-phase block)
- Suitable for copper wires
- Housing made of polyamide 6.6 UL 94 V-0

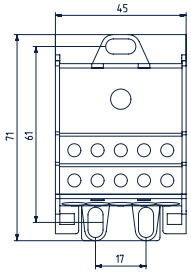
SVB 80



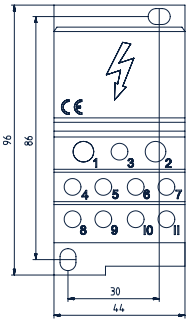
SVB 125



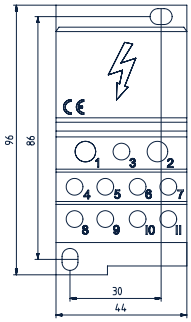
SVB 175



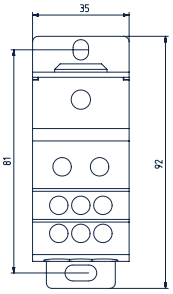
SVB 250



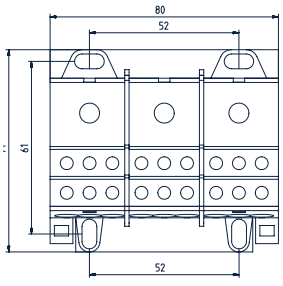
SVB 400



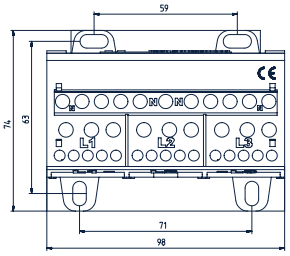
SVB 160



SVB 175/3



SVB 125/4



Screw-distributor blocks SVB

Screw-distributor blocks	SVB 80	SVB 125	SVB 175
			
Description	Power distributor block 7 connections	Power distributor block 8 connections	Power distributor block 11 connections
Connection type	Screw connection technology	Screw connection technology	Screw connection technology
Size (L x W x H), mm	66 x 27 x 47	75 x 27 x 47	71 x 45 x 43
Size (L x W x H) mm with TS 35 x 7.5 mm	66 x 27 x 50	75 x 27 x 50	71 x 45 x 46
Weight, g	63	134	228
Type / colour	**SVB 80 LG** ●	**SVB 125 LG** ●	**SVB 175 LG** ●
Cat. no. **Qty.**	*1740.0* **1**	*1741.0* **1**	*1742.0* **1**
Ratings	**IEC / UL / cUL**	**IEC / UL / cUL**	**IEC / UL / cUL**
Rated voltage AC/DC (V)	1000 / 600 / 600	1000 / 600 / 600	1000 / 600 / 600
Rated current Cu / Al (A)	80 / 80 / 80	125 / 115 / 115	175 / 115 / 175
Rated cross-section for input and output, mm²	16 / 16–6	35–16 / 16	70 / 16
Rated cross-section for input and output, AWG	8-4 / 14–4	8-2 / 14–4	8-2 / 14–6
Rated surge voltage kV / Contamination degree	2.5 / 3	2.5 / 3	2.5 / 3
Flamm. class acc. to UL 94	V-0	V-0	V-0
Short-circuit resistance rating			
Short-circuit current resistance IPK (peak value), kA	2.7	30	30
Short-circuit current resistance ICW over 1s, kA	1.9	4.2	11
SCCR rating kV / req. Series fuse Class J A	100 / 80	100 / 125	100 / 125
Connection data			
Inputs	**A / B / C**	**A / B / C**	**A / B / C**
Number of connections	1	1 / 1	1
Clampable conductors, mm²	2.5–16	10–35 / 2.5–16	16–70
"e" solid (single-core) H07V-K-U	2.5–16	10–35 / 2.5–16	16–70
"m" stranded H07V-R	2.5–16	10–35 / 2.5–16	16–70
"f" finely stranded H07V-K	2.5–16	10–35 / 2.5–16	16–50
"f" finely stranded H07V-K and ferrule DIN 46 228/1	2.5–16	10–35 / 2.5–16	16–50
"f" finely stranded H07V-K and ferrule with plastic collar	2.5–16	10–35 / 2.5–16	16–50
Diameter, mm	7	10 / 7	12
Torque, Nm	1.5–3	3.5–5 / 3.5–5	6–10
Terminal screw	M5	M8 / M6	M10
Blade size, mm	PZ2	M4 / M4	M5
Stripping length, mm	10–12	14–16 / 12-15	14–16
Outputs	**A / B / C**	**A / B / C**	**A / B / C**
Number of connections	2 / 4	6	10
Clampable conductors, mm²	2.5–16 / 2.5–6	2.5–16	2.5–16
"e" solid (single-core) H07V-K-U	2.5–16 / 2.5–6	2.5–16	2.5–16
"m" stranded H07V-R	2.5–16 / 2.5–6	2.5–16	2.5–16
"f" finely stranded H07V-K	2.5–16 / 2.5–6	2.5–16	2.5–16
"f" finely stranded H07V-K and ferrule DIN 46 228/1	2.5–16 / 2.5–6	2.5–16	2.5–16
"f" finely stranded H07V-K and ferrule with plastic collar	2.5–16 / 2.5–6	2.5–16	2.5–16
Diameter, mm	7 / 4.5	6.5	6.5
Torque, Nm	1.5–3 / 0.8-1.5	2-3	3-4
Terminal screw	M5 / M4	M5	M6
Blade size, mm	PZ2 / PZ1	PZ2	M3
Stripping length, mm	10–12 / 9-12	10–12	10–12
Accessories			
End stop ES	**ES 35 / K / ST BG**	**ES 35 / K / ST BG**	**ES 35 / K / ST BG**
Cat. no. **Qty.**	*2828.0* **50**	*2828.0* **50**	*2828.0* **50**
Allen key socket wrench ISKS			**ISKS 5**
Cat. no. **Qty.**			*2818.0* **1**
Screwdriver SDK	**SDK 1,0 x 80**		
Cat. no. **Qty.**	*2289.0* **1**		
Screwdriver SDK	**SDK 2,0 x 100**	**SDK 2,0 x 100**	**SDK 2.0 x 100**
Cat. no. **Qty.**	*2290.0* **1**	*2290.0* **1**	*2290.0* **1**

SVB 250	SVB 400	SVB 160	SVB 175/3	SVB 125/4
				
Power distributor block 12 connections	Power distributor block 12 connections	Power distributor block 7 connections with busbar distribution	Power distributor block 3 x 7 connections	Power distributor block 3 x 8 connections with neutral busbar
Screw connection technology	Screw connection technology	Screw connection technology	Screw connection technology	Screw connection technology
96 x 44 x 50	96 x 44 x 50	92 x 35 x 50	71 x 80 x 43	74 x 98 x 50
96 x 44 x 53	96 x 44 x 53	92 x 35 x 54	71 x 80 x 46	74 x 98 x 53
434	414	238	386	314
SVB 250 LG ●	**SVB 400 LG** ●	**SVB 160 LG** ●	**SVB 175/3 LG** ●	**SVB 125/4 LG** ●
1743.0 **1**	*1744.0* **1**	*1746.0* **1**	*1745.0* **1**	*1747.0* **1**
IEC **UL** **cUL**	**IEC** **UL** **cUL**	**IEC** **UL** **cUL**	**IEC** **UL** **cUL**	**IEC** **UL** **cUL**
1000 600	1000 600	1000 600 600	1000 600 600	1000
230 230	400 310	160 160 160	175 115 175	160
120 / 35–16–10	185 / 35–16–10	70 / 126	70 / 16	35 / 16
2-4 (1)	3/0–350 (1)	8–2/0 / 14–4	8-2 / 14–6	
2.5 / 3	2.5 / 3	2.5 / 3	2.5 / 3	2.5 / 3
V-0	V-0	V-0	V-0	V-0
51	51	30	30	30
24.5	21	11	11	11.8
100 / 250	100 / 350	100 / 175	100 / 175	
A **B** **C**	**A** **B** **C**	**A** **B** **C**	**A** **B** **C**	**A** **B** **C**
1	1	1	3 x 1	3 x 1 3 x 5 3 x 2
35–120	95–185	10–70	16–70	6–35 1.5–6 4–16
35–120	95–185	10–70	16–70	6–35 1.5–6 4–16
35–120	95–185	10–70	16–70	6–35 1.5–6 4–16
35–95	95–150	10–70	16–50	6–25 1.5–6 4–10
35–95	95–150	10–70	16–50	6–25 1.5–6 4–10
35–95	95–150	10–70	16–50	6–25 1.5–6 4–10
15	19	13	12	9 5 7
19–21	25–27	5–6	6–10	1.5 0.8 1.5
M14	M16	M10	M10	M5 M4 M5
M6	M8	M5	M5	PZ2 PZ1 PZ2
27–29	27-29	16–18	14–16	12-18 9-12 12-18
A **B** **C**	**A** **B** **C**	**A** Busbar 16 x 5 mm max.	**A** **B** **C**	**neutral**
2 5 4	2 5 4	6	3 x 6	1 4 6
6–35 1.5–16 1.5–10	6–35 1.5–16 1.5–10	2.5–16	2.5–16	6–35 1.5–6 4–16
6–35 1.5–16 1.5–10	6–35 1.5–16 1.5–10	2.5–16	2.5–16	6–35 1.5–6 4–16
6–35 1.5–16 1.5–10	6–35 1.5–16 1.5–10	2.5–16	2.5–16	6–35 1.5–6 4–16
6–35 1.5–16 1.5–10	6–35 1.5–16 1.5–10	2.5–16	2.5–10	6–25 1.5–6 4–10
6–35 1.5–16 1.5–10	6–35 1.5–16 1.5–10	2.5–16	2.5–10	6–25 1.5–6 4–10
6–35 1.5–16 1.5–10	6–35 1.5–16 1.5–10	2.5–16	2.5–10	6–25 1.5–6 4–10
9 6.5 6	9 6.5 6	7	6.5	9 5 7
3.5–7 2-3 2-3	3.5–7 2-3 2-3	1.5–3 2-3	3-4	1.5 0.8 1.5
M8 M6 M6	M8 M6 M6	M5 M6	M6	M5 M4 M5
1.2 x 6.5 0.8 x 4.0 0.8 x 4.0	1.2 x 6.5 0.8 x 4.0 0.8 x 4.0	PZ2 M5	M3	PZ2 PZ1 PZ2
10–12 10–12 10–12	10–12 10–12 10–12	10–12	10–12	12-18 9-12 12-18
ES 35 / K / ST BG	**ES 35 / K / ST BG**	**ES 35 / K / ST BG**	**ES 35 / K / ST BG**	**ES 35 / K / ST BG**
2828.0 **50**	*2828.0* **50**	*2828.0* **50**	*2828.0* **50**	*2828.0* **50**
ISKS 6	**ISKS 8**	**ISKS 8**	**ISKS 5 / ISKS 6**	
2772.0 **1**	*2773.0* **1**	*2773.0* **1**	*2818.0 / 2772.0* **1**	
SDB 0.8 x 4.0	**SDB 0.8 x 4.0**	**SDB 0.8 x 4.0**	**SDB 0.8 x 4.0**	**SDK 1.0 x 80**
1087.0 **1**	*1087.0* **1**	*1087.0* **1**	*1087.0* **1**	*2289.0* **1**
SDB 1.2 x 6.5	**SDB 1.2 x 6.5**	**SDB 1.2 x 6.5**	**SDB 1.2 x 6.5**	**SDK 1.0 x 100**
1088.0 **1**	*1088.0* **1**	*1088.0* **1**	*1088.0* **1**	*2290.0* **1**

Note:
These distributor blocks may only be used to connect copper conductors.