

# SCREW-TYPE DISTRIBUTION BLOCKS



Our ideas – Your advantages



## Screw-distributor blocks SVB



The **SVB** screw-type 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 electro-mechanical 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.



# Screw-distributor blocks SVB

## Diagrams

**SVB 80** **Diagram 1**

**SVB 125** **Diagram 2**

**SVB 175** **Diagram 3**

**SVB 250** **Diagram 4**

**SVB 400** **Diagram 5**

**SVB 160** **Diagram 6**

**SVB 175/3** **Diagram 7**

**SVB 125/4** **Diagram 8**

## Screw-distributor blocks SVB

### Screw connection system



#### Features

- High short-circuit resistance rating
- IP20-class protection
- Simple handling
- Space-saving design

- 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 from polyamide 6.6 UL 94-V0

### SVB 80



**Diagram 1**  
Page 219

Current distributor block  
7 connections

### SVB 125



**Diagram 2**  
Page 219

Current distributor block  
8 connections

### SVB 175



**Diagram 3**  
Page 219

Current distributor block  
11 connections

### Connection type

Dimensions (L x W x H), directly installed, mm

Size (L x W x H) with TS 35 x 7.5 mm

Weight, g

### Type

Type

Cat. no.

Colours available

### Ratings

Rated voltage, V

Rated current, A

Rated cross-section for input and output, mm<sup>2</sup>

Rated cross-section for input and output, AWG

Rated impulse voltage, kV | Contamination degree

Flamm. class UL 94

### Short-circuit resistance rating

Short-circuit current resistance IPK (peak value), kA

Short-circuit current resistance ICW over 1s, kA

SCCR rating kV | Class J series fuse required, A

### Connection data

#### Inputs

Number of connections

Clampable wire: mm<sup>2</sup>

"e" single wire H07V-U

"m" stranded H07V-R

"f" finely stranded H07V-K

"f" finely stranded H07V-K and ferrule DIN 46 228/1

"f" finely stranded H07V-K and ferrule with plastic collar

Diameter mm

Torque Nm

Terminal screw

Blade size

Stripping length mm

#### Outputs

Number of connections

Clampable wire: mm<sup>2</sup>

"e" single wire H07V-U

"m" stranded H07V-R

"f" finely stranded H07V-K

"f" finely stranded H07V-K and ferrule DIN 46 228/1

"f" finely stranded H07V-K and ferrule with plastic collar

Diameter mm

Torque Nm

Terminal screw

Blade size

Stripping length mm

### Accessories

End stop ES

Cat. no.

Allen key socket wrench ISKS

Cat. no.

Allen key socket wrench ISKS

Cat. no.

Screwdriver SDK

Cat. no.

Screwdriver SDK

Cat. no.

### Additional accessories

More accessories starting on page 264.

### Screw connection

66 x 27 x 47

66 x 27 x 50

63

SVB 80 LG

1740.0

1

0

IEC UL cUL

1000 600 600

80 80 80

16 | 16 - 6

8 - 4 | 14 - 4

2.5 | 3

V0

2,7

1,9

100 | 80

A B C

1

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

7

1,5 - 3

M5

PZ2

10 - 12

A B C

2

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

7

1.5-3

M5

PZ2

10-12

Page Qty.

ES 35/K/ST BG

2828.0

274

50

SDK 1,0x80

2289.0

422

1

SDK 1,0x100

2290.0

422

1

### Screw connection

75 x 27 x 47

75 x 27 x 50

134

SVB 125 LG

1741.0

1

0

IEC UL cUL

1000 600 600

125 115 115

35 - 16 | 16

8 - 2 | 14 - 4

2.5 | 3

V0

30

4,2

100 | 125

A B C

1

10-35

2.5-16

10-35

10-35

10-35

10-35

10-35

10-35

10

3,5-5

M8

M4

14-16

A B C

1

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

2.5-16

6.5

2-3

M5

PZ2

10-12

Page Qty.

ES 35/K/ST BG

2828.0

274

50

SDK 1,0x100

2290.0

422

1

2290.0

422

1

### Screw connection

71 x 45 x 43

71 x 45 x 46

228

SVB 175 LG

1742.0

1

0

IEC UL cUL

1000 600 600

175 115 175

70 | 16

8 - 2 | 14 - 6

2.5 | 3

V0

30

11

-

A B C

1

16-70

16-70

16-70

16-70

16-50

16-50

16-50

16-50

12

6-10

M10

M5

14-16

A B C

1

2.5-16

2.5-16

2.5-16

2.5-10

2.5-10

2.5-10

6.5

3-4

M6

M3

10-12

Page Qty.

ES 35/K/ST BG

2828.0

274

50

ISKS 5

2818.0

422

1



**Diagram 4**  
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**Diagram 5**  
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**Diagram 6**  
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**Diagram 7**  
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**Diagram 8**  
Page 219

Current distributor block  
12 connections

Current distributor block  
12 connections

Current distributor block  
7 connections with busbar distribution

Current distributor block  
3 x 7 connections

Current distributor block  
3 x 8 connections with neutral busbar

**Screw connection**  
96 x 44 x 50  
96 x 44 x 53  
434

**Screw connection**  
96 x 44 x 50  
96 x 44 x 53  
414

**Screw connection**  
92 x 35 x 50  
92 x 35 x 54  
238

**Screw connection**  
71 x 80 x 43  
71 x 80 x 46  
386

**Screw connection**  
74 x 98 x 50  
74 x 98 x 53  
314

**Qty.**  
SVB 250 LG  
**1743.0** 1

**Qty.**  
SVB 400 LG  
**1744.0** 1

**Qty.**  
SVB 160 LG  
**1746.0** 1

**Qty.**  
SVB 175/3 LG  
**1745.0** 1

**Qty.**  
SVB 125/4 LG  
**1747.0** 1

IEC	UL
1000	600
250	230
120   35-16-10	
2 - 4 (1)	
2.5   3	
V0	
51	
24.5	
100   250	

IEC	UL
1000	600
400	310
185   35-16-10	
3/0 - 350	
2.5   3	
V0	
51	
21	
100   350	

IEC	UL	cUL
1000	600	600
160	160	160
70   126		
8 - 2/0   14 - 4		
2.5   3		
V0		
30		
11		
100   175		

IEC	UL	cUL
1000	600	600
175	115	175
70   16		
8 - 2   14 - 6		
2.5   3		
V0		
30		
11		
100   175		

IEC		
690	35   16	
125	-	
	2.5   3	
	V0	
	30	
	11,8	
	-	

A	B	C
1		
35-120		
35-120		
35-120		
35-95		
35-95		
35-95		
15		
19-21		
M14		
M6		
27-29		
A	B	C
2	5	4
6-35	1.5-16	1.5-10
6-35	1.5-16	1.5-10
6-35	1.5-16	1.5-10
6-25	1.5-16	1.5-10
6-25	1.5-16	1.5-10
6-25	1.5-16	1.5-10
9	6.5	6
3,5-7	2-3	2-3
M8	M6	M6
1.2 x 6.5	0.8 x 4.0	0.8 x 4.0
10-12	10-12	10-12

A	B	C
1		
95-185		
95-185		
95-185		
95-150		
95-150		
95-150		
19		
25-27		
M16		
M8		
27-29		
A	B	C
2	5	4
6-35	1.5-16	1.5-10
6-35	1.5-16	1.5-10
6-35	1.5-16	1.5-10
6-25	1.5-16	1.5-10
6-25	1.5-16	1.5-10
6-25	1.5-16	1.5-10
9	6.5	6
3,5-7	2-3	2-3
M8	M6	M6
1.2 x 6.5	0.8 x 4.0	0.8 x 4.0
10-12	10-12	10-12

A	B	C
1		
10-70		
10-70		
10-70		
10-70		
10-70		
10-70		
13		
5-6		
M10		
M5		
16-18		
A	B	C
6	Busbar 16 x 5 mm max.	
2.5-16		
2.5-16		
2.5-16		
2.5-16		
2.5-16		
2.5-16		
7		
1.5-3	2-3	
M5	M6	
PZ2	M5	
10-12		

A	B	C
3 x 1		
16-70		
16-70		
16-70		
16-50		
16-50		
16-50		
12		
6-10		
M10		
M5		
14-16		
A	B	C
3 x 6		
2.5-16		
2.5-16		
2.5-16		
2.5-10		
2.5-10		
2.5-10		
6.5		
3-4		
M6		
M3		
10-12		

A	B	C
3 x 1	3 x 5	3 x 2
6-35	1.5-6	4-16
6-35	1.5-6	4-16
6-35	1.5-6	4-16
6-25	1.5-6	4-10
6-25	1.5-6	4-10
6-25	1.5-6	4-10
9	5	7
1,5	0.8	1,5
M5	M4	M5
PZ2	PZ1	PZ2
12-18	9-12	12-18
Neutral wire	Neutral wire	Neutral wire
1	4	6
6-35	1.5-6	4-16
6-35	1.5-6	4-16
6-35	1.5-6	4-16
6-25	1.5-6	4-10
6-25	1.5-6	4-10
6-25	1.5-6	4-10
9	5	7
1,5	0.8	1,5
M5	M4	M5
PZ2	PZ1	PZ2
12-18	9-12	12-18

Page Qty.	Page Qty.	Page Qty.
ES 35/K/ST BG <b>2828.0</b> 274 50	ES 35/K/ST BG <b>2828.0</b> 274 50	ES 35/K/ST BG <b>2828.0</b> 274 50
ISKS 6 <b>2772.0</b> 422 1	ISKS 8 <b>2773.0</b> 422	ISKS 5 <b>2818.0</b> 422 1
SDB 0.8x4.0 <b>1087.0</b> 422 1	SDB 0.8x4.0 <b>1087.0</b> 422 1	ISKS 6 <b>2772.0</b> 422 1
SDB 1.2x6.5 <b>1088.0</b> 422 1	SDB 1.2x6.5 <b>1088.0</b> 422 1	

Page Qty.	Page Qty.	Page Qty.
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SDB 0.8x4.0 <b>1087.0</b> 422 1	SDB 0.8x4.0 <b>1087.0</b> 422 1	ISKS 6 <b>2772.0</b> 422 1
SDB 1.2x6.5 <b>1088.0</b> 422 1	SDB 1.2x6.5 <b>1088.0</b> 422 1	

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SDB 0.8x4.0 <b>1087.0</b> 422 1	SDB 0.8x4.0 <b>1087.0</b> 422 1	ISKS 6 <b>2772.0</b> 422 1
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SDB 0.8x4.0 <b>1087.0</b> 422 1	SDB 0.8x4.0 <b>1087.0</b> 422 1	ISKS 6 <b>2772.0</b> 422 1
SDB 1.2x6.5 <b>1088.0</b> 422 1	SDB 1.2x6.5 <b>1088.0</b> 422 1	





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