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Conductor connection clamps Push-in

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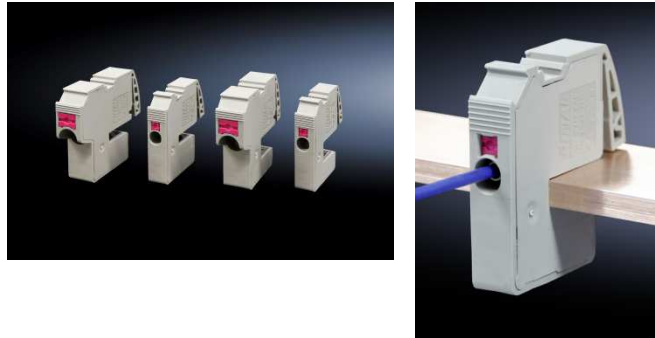
Product data sheet

Push-in conductor connection clamps

The technical data below relates to the following models of Rittal push-in conductor connection clamps

- SV 3450.505
- SV 3451.505
- SV 3455.505
- SV 3456.505

and is based on the DIN EN 60947-7-1 /-2 standard unless otherwise stated.



Rated insulation voltage [U_i]:

Max. 1,000 VAC / 1,500 VDC

in compliance with all necessary application-related creepage distances and clearances. Once assembly of the system has been completed, the creepage distances and clearances must be checked in line with DIN EN 60664-1.

Rated impulse withstand voltage [U_{imp}]:

Max. 12 kV

Short circuit resistance [I_{cc}]:

(50 A gL/gG for SV 3450.505/3455.505 / 160 A gL/gG for SV 3451.505/3456.505)

100 kA

Thermal current [I_{th}]:

SV 3450.505 and SV 3455.505: 32 A for 4 mm², max. 41 A for 6 mm²
 SV 3451.505 and SV 3456.505: 76 A for 16 mm²

Rated current [I_{nc}]:

(based on DIN EN 61439-1)

SV 3450.505 and SV 3455.505: Max. 30 A
 SV 3451.505 and SV 3456.505: Max. 63 A

Power loss [P_v] for I_{th}:

SV 3450.505 and SV 3455.505: 2.1 W
 SV 3451.505 and SV 3456.505: 4.8 W

Temperature ranges:

(ambient temperature of clamp)

For operation in a switchgear and controlgear assembly
(without derating) -5°C to +55°C

For storage -25°C to +70°C


General data:

Number of terminal connections	1
Number of simultaneous connections	1
Degree of contamination	3
Overvoltage category	IV
Insulating material	PA 6.6
Insulating material group	I/CTI600
Current-carrying components	Cu tin-plated
Max. continuous operating temperature	130°C (IEC 60216)

Dimensions of suitable Cu busbars:

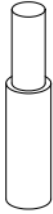



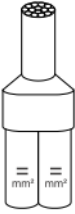
SV 3450.505 and SV 3451.505: 5 mm thick
SV 3455.505 and SV 3456.505: 10 mm thick
The bar width must be at least 12 mm

Approvals and explanations:

- UL  in line with UL1059 standard (file E494070 /XCFR2 / XCFR8.)
- CE





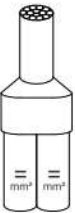
Rated connection capacity:
 (only round Cu conductors are permitted)

SV 3450.505 and SV 3455.505:

					
IEC	0,5-6 mm ²	0,5-4 mm ²			0,5-1 mm ²
UL	AWG 20-10				

Maximum conductor diameter incl. wire end ferrule with plastic ferrule is 5.9 mm.

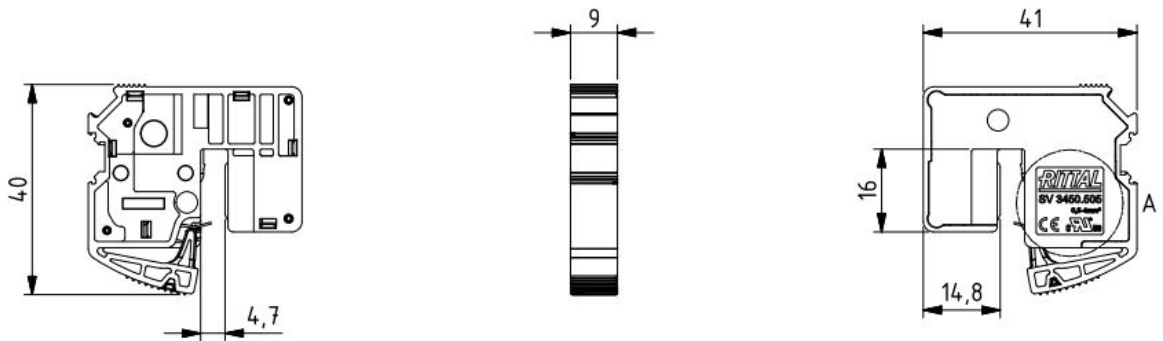
SV 3451.505 and SV 3456.505:

					
IEC	1,5-16 mm ²				1,5-4 mm ²
UL	AWG 14-6				

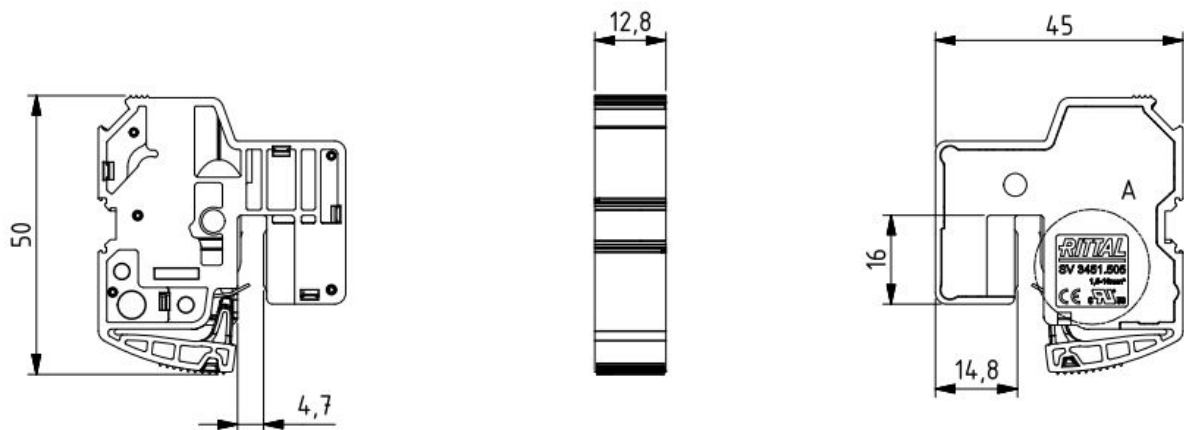
Maximum conductor diameter incl. wire end ferrule with plastic ferrule is 9.7 mm.

Dimensions:

SV 3450.505

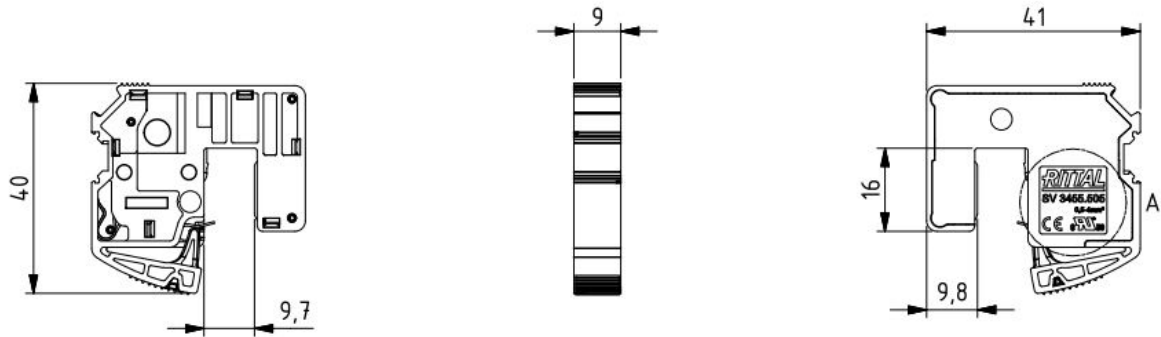


SV 3451.505

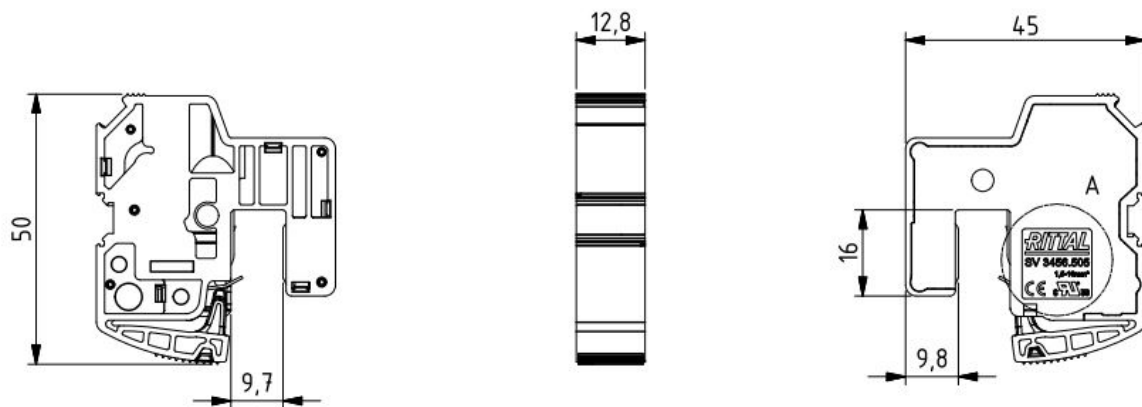


Dimensions (continued):

SV 3455.505



SV 3456.505



Suitable labelling materials:

Conductor connection clamp	Phoenix Contact products	Weidmüller products	Wago products
	Model	Model	Model
SV 3450.505	ZB 8 ZBF 8	MF 10/8	2009-115
SV 3451.505	ZB 12 ZBF 12	MF 5/12 MF 10/10	2009-115
SV 3455.505	ZB 8 ZBF 8	MF 10/8	2009-115
SV 3456.505	ZB 12 ZBF 12	MF 5/12 MF 10/10	2009-115

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