



General ordering data

Order No.	1612990000
Part designation	STW S 8 SB GR
Version	PCB plug-in connector, Female connectors, Leaf spring connection, Clamping range, max.: 4 mm ² , Pitch: 7.00 mm, No. of poles: 8, 90°, Box
EAN	4008190401412
Qty.	10 pc(s).

System parameters

Conductor connection system	Leaf spring connection
Outgoing direction of conductor	90°
Pitch	7 mm
Pitch in inch	0.276 inch
No. of poles	8
No. of rows	1
Screwdriver blade	0.6 x 3.5
Screwdriver blade standard	DIN 5264
Tightening torque, min.	0.5 Nm
Tightening torque, max.	0.6 Nm
Clamping screw	M 3
Stripping length	9 mm
L1 in mm	49 mm
L1 in inch	1.929 inch
Electric shock protection to DIN VDE 0470	IP 20
Electric shock protection to DIN VDE 0470	Safe from finger touch

Material data

Insulating material	Wemid (PA)
Colour	pebble grey
colour chart	Similar to RAL 7032
Insulating material group	I
Flammability class UL 94	V-0
CTI	>= 600
Contact base material	CuZn

Material data

Contact surface	silver-plated
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Connectable conductors

Clamping range, min.	0.32 mm ²
Clamping range, max.	4 mm ²
AWG, min.	22
AWG, max.	12
Solid, min. H05(07) V-U	0.5 mm ²
Solid, max. H05(07) V-U	4 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	4 mm ²
With wire end ferrule, acc. to DIN 46 228/1, min.	0.5 mm ²
With wire end ferrule, acc. to DIN 46 228/1, max.	4 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, max.	4 mm ²
Gauge to EN 60999 a x b; ø	2.8 mm x 2.2 mm;

DIN IEC rating data

Rated current, min. No. pins (Tu=20°C)	32 A
Rated current, max. No. pins (Tu=20°C)	28 A
Rated current, min. No. pins (Tu=40°C)	32 A
Rated current, max. No. pins (Tu=40°C)	24 A
Rated voltage for overvoltage class/pollution severity II/2	1,000 V
Rated voltage for overvoltage class/pollution severity III/2	500 V
Rated voltage for overvoltage class/pollution severity III/3	500 V
Rated impulse withstand voltage for overvoltage class/pollution severity II/2	6 kV
Rated impulse withstand voltage for overvoltage class/pollution severity III/2	6 kV
Rated impulse withstand voltage for overvoltage class/pollution severity III/3	6 kV
Short-time withstand current resistance	3 x 1s with 340 A

CSA rating data

Rated voltage (Use group D)	300 V
Rated current (Use group D)	25 A
AWG conductor (field wiring), min.	20
AWG conductor (field wiring), max.	12

UL 1977 rating data

Rated voltage (UL 1977)	600 V
Rated current (UL 1977)	25 A
AWG-conductor, min. (UL 1977)	22
AWG-conductor, max. (UL 1977)	12

Approvals

Approvals institutes



Classifications

ETIM 2.0	NK
ETIM 3.0	EC001284
eClass 4.1	27-26-07-01
eClass 5.0	27-26-07-01
eClass 5.1	27-26-07-01

Similar products

Order No.	Part designation	Version
1612930000	STW S 2 SB GR	PCB plug-in connector, Female connectors, Leaf spring connection, Clamping range, max.: 4 mm ² , Pitch: 7.00 mm, No. of poles: 2, 90°, Box
1612940000	STW S 3 SB GR	PCB plug-in connector, Female connectors, Leaf spring connection, Clamping range, max.: 4 mm ² , Pitch: 7.00 mm, No. of poles: 3, 90°, Box
1612950000	STW S 4 SB GR	PCB plug-in connector, Female connectors, Leaf spring connection, Clamping range, max.: 4 mm ² , Pitch: 7.00 mm, No. of poles: 4, 90°, Box
1612960000	STW S 5 SB GR	PCB plug-in connector, Female connectors, Leaf spring connection, Clamping range, max.: 4 mm ² , Pitch: 7.00 mm, No. of poles: 5, 90°, Box
1612970000	STW S 6 SB GR	PCB plug-in connector, Female connectors, Leaf spring connection, Clamping range, max.: 4 mm ² , Pitch: 7.00 mm, No. of poles: 6, 90°, Box
1612980000	STW S 7 SB GR	PCB plug-in connector, Female connectors, Leaf spring connection, Clamping range, max.: 4 mm ² , Pitch: 7.00 mm, No. of poles: 7, 90°, Box
1613000000	STW S 9 SB GR	PCB plug-in connector, Female connectors, Leaf spring connection, Clamping range, max.: 4 mm ² , Pitch: 7.00 mm, No. of poles: 9, 90°, Box
1613010000	STW S 10 SB GR	PCB plug-in connector, Female connectors, Leaf spring connection, Clamping range, max.: 4 mm ² , Pitch: 7.00 mm, No. of poles: 10, 90°, Box