

Powermate Range pitch 7.62

Powermate Range pitch 7.62	Male connectors with solder connection	J.2
	Socket connectors with clamping yoke connection	J.8
	Socket connectors with tension clamp connection	J.10

SV 7.62/90



Single level high-current male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connecting and operating reliability thanks to coding pin arrangement that prevents mismatching. Additional fixing in flange and 3.5 mm pin length for optimised for lead-free wave soldering which plug-in direction 90° to solder pins. complete the range.

- 800 V (IEC) / 600 V (UL)
- 41 A (IEC) / 31 A (UL)

Technical data

Rated data to IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²
Solid H05(07) V-U	mm ²
Stranded H07 V-R	mm ²
Flexible H05(07) V-K	mm ²
Flexible with ferrule	mm ²
Ferrule with plastic collar	mm ²
Stripping length	mm
Screwdriver blade	mm
according to norm	
Tightening torque range	Nm

**Rated current
at ambient temperature**

A	41	38
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Overvoltage category
Pollution severity

Rated voltage	V	500	630	800
Rated impulse voltage	kV	6	6	6

UL 1059 rated data - E60693

Rated voltage	V	300	300	600
Rated current	A	31	31	5
AWG conductor				

CSA C22.2 rated data - LR12400 B

Rated voltage	V	300	300	600
Rated current	A	31	31	5
AWG conductor				

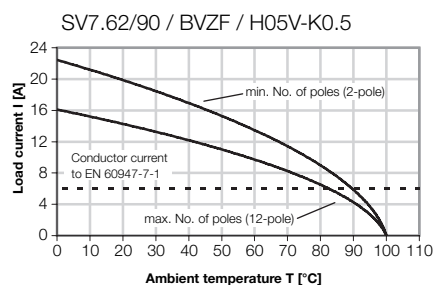
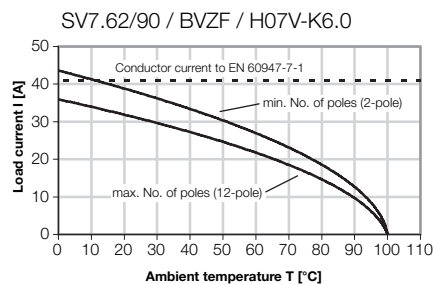
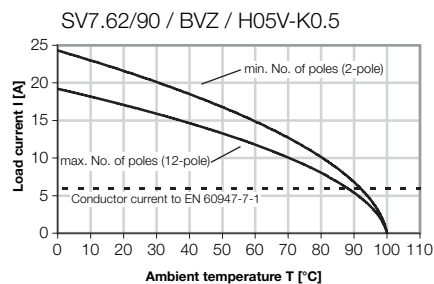
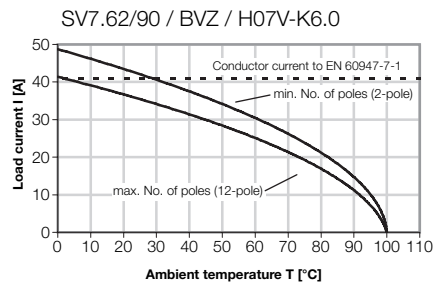
Material data

Type of insulating material	PBT GF
Flammability class acc. UL94	V-0
Contact base material	Cu alloy
Material of contact surface	tinned

Information

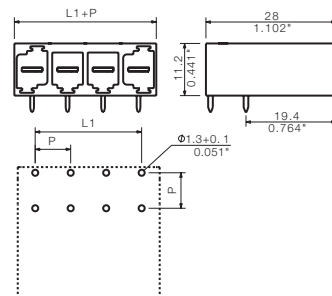
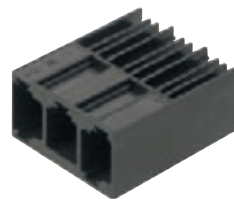
- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- The data given under CSA relates to a cUL approval - E60693
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

Derating curve



SV 7.62/90G

without flanges



Ordering data

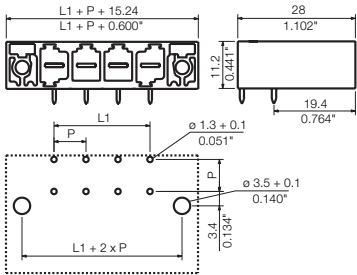
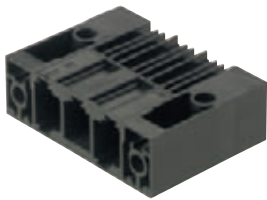
Solder pin length	3.5 mm
Colour	black

Pitch 7.62 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	7.62	(0.300)	100		1822280000
3	15.24	(0.600)	100		1822290000
4	22.86	(0.900)	100		1822300000
5	30.48	(1.200)	50		1822310000
6	38.10	(1.500)	50		1822320000
7	45.72	(1.800)	50		1822330000
8	53.34	(2.100)	50		1822340000
9	60.96	(2.400)	50		1822350000
10	68.58	(2.700)	50		1822360000
11	76.20	(3.000)	50		1822370000
12	83.82	(3.300)	50		1822380000

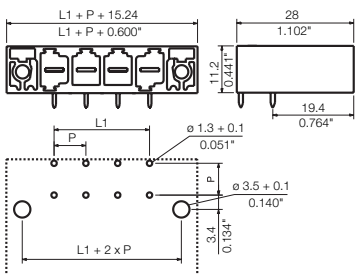
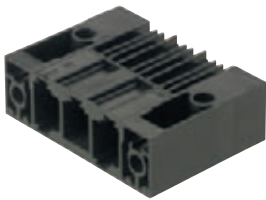
SV 7.62/90F

Interlock flanges



SV 7.62/90SF

Interlock flanges with nuts



Accessories

Coding

See chapter accessories
Order No. 1824410000



Ordering data

Solder pin length		3.5 mm
Colour		black
Pitch 7.62 mm		
Poles	L1 mm (inch) Qty.	Order No.
2	7.62 (0.300) 100	1822390000
3	15.24 (0.600) 100	1822400000
4	22.86 (0.900) 100	1822410000
5	30.48 (1.200) 50	1822420000
6	38.10 (1.500) 50	1822430000
7	45.72 (1.800) 50	1822440000
8	53.34 (2.100) 50	1822450000
9	60.96 (2.400) 50	1822460000
10	68.58 (2.700) 50	1822470000
11	76.20 (3.000) 50	1822480000
12	83.82 (3.300) 50	1822490000

Ordering data

Solder pin length		3.5 mm
Colour		black
Pitch 7.62 mm		
Poles	L1 mm (inch) Qty.	Order No.
2	7.62 (0.300) 100	1852610000
3	15.24 (0.600) 100	1852620000
4	22.86 (0.900) 100	1852630000
5	30.48 (1.200) 50	1852640000
6	38.10 (1.500) 50	1852650000
7	45.72 (1.800) 50	1852660000
8	53.34 (2.100) 50	1852670000
9	60.96 (2.400) 50	1852680000
10	68.58 (2.700) 50	1852690000
11	76.20 (3.000) 50	1852700000
12	83.82 (3.300) 50	1852710000

Male connectors with solder connection

SV 7.62/180



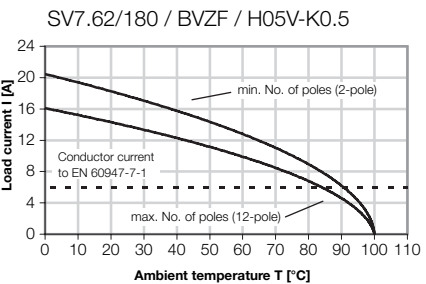
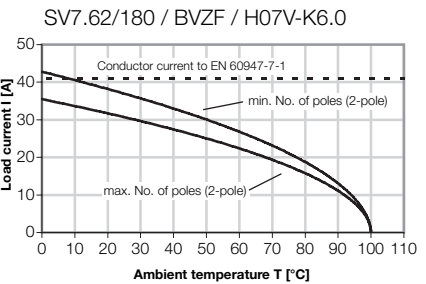
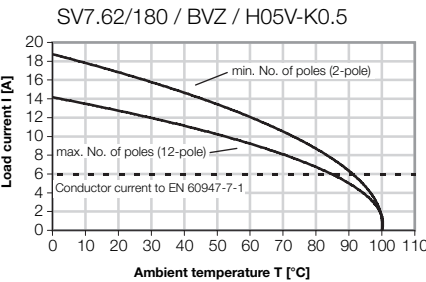
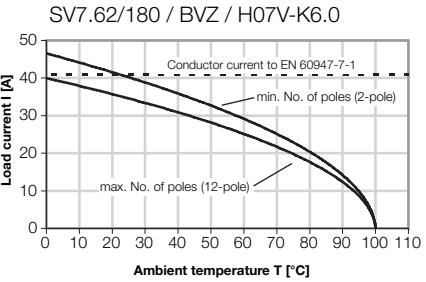
Single row high-current male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connecting and operating reliability thanks to coding pin arrangement that prevents mismatching. Additional fixing and integral positioning aid with 3.5 mm pin length for optimised for lead-free wave soldering, plug-in direction 180° to solder pins, completes the range.

- 800 V (IEC) / 600 V (UL)
- 41 A (IEC) / 31 A (UL)

Technical data

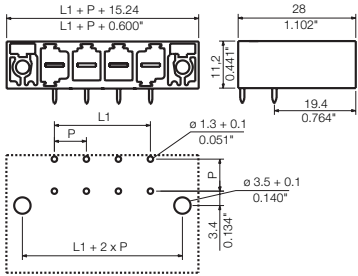
Rated data to IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid H05(07) V-U				
Stranded H07 V-R	mm²			
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
according to norm				
Tightening torque range	Nm			
Rated current at ambient temperature			20°C	40°C
	A	41	36	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	500	630	800
Rated impulse voltage	kV	6	6	6
UL 1059 rated data - E60693		B	C	D
Rated voltage	V	300	300	600
Rated current	A	31	31	5
AWG conductor				
@ CSA C22.2 rated data - LR12400 B		B	C	D
Rated voltage	V	300	300	600
Rated current	A	31	31	5
AWG conductor				
Material data				
Type of insulating material		PBT GF		
Flammability class acc. UL94		V-0		
Contact base material		Cu alloy		
Material of contact surface		tinned		
Information				

Derating curve



SV 7.62/180G

without flanges

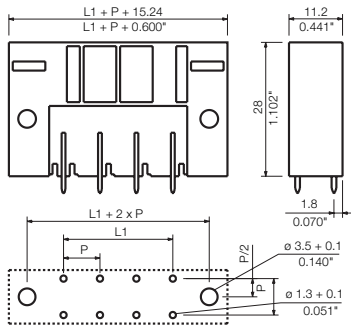


Ordering data

Solder pin length				3.5 mm	
Colour				black	
Pitch 7.62 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	7.62	(0.300)	100		1822530000
3	15.24	(0.600)	100		1822540000
4	22.86	(0.900)	100		1822550000
5	30.48	(1.200)	50		1822560000
6	38.10	(1.500)	50		1822570000
7	45.72	(1.800)	50		1822580000
8	53.34	(2.100)	50		1822590000
9	60.96	(2.400)	50		1822600000
10	68.58	(2.700)	50		1822610000
11	76.20	(3.000)	50		1822620000
12	83.82	(3.300)	50		1822630000

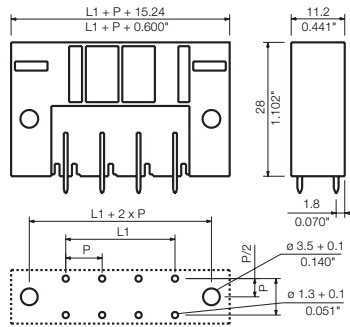
SV 7.62/180F

Interlock flanges



SV 7.62/180SF

Interlock flanges with nuts



Accessories

Coding

See chapter accessories
Order No. 1824410000



Anti-turn element

See chapter accessories
Order No. 1853940000



Ordering data

Solder pin length				3.5 mm	
Colour				black	
Pitch 7.62 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	7.62	(0.300)	100		1822640000
3	15.24	(0.600)	100		1822650000
4	22.86	(0.900)	100		1822660000
5	30.48	(1.200)	50		1822670000
6	38.10	(1.500)	50		1822680000
7	45.72	(1.800)	50		1822690000
8	53.34	(2.100)	50		1822700000
9	60.96	(2.400)	50		1822710000
10	68.58	(2.700)	50		1822720000
11	76.20	(3.000)	50		1822730000
12	83.82	(3.300)	50		1822740000

Ordering data

Solder pin length				3.5 mm	
Colour				black	
Pitch 7.62 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	7.62	(0.300)	100		1852870000
3	15.24	(0.600)	100		1852880000
4	22.86	(0.900)	100		1852890000
5	30.48	(1.200)	50		1852900000
6	38.10	(1.500)	50		1852910000
7	45.72	(1.800)	50		1852920000
8	53.34	(2.100)	50		1852930000
9	60.96	(2.400)	50		1852940000
10	68.58	(2.700)	50		1852950000
11	76.20	(3.000)	50		1852960000
12	83.82	(3.300)	50		1852970000

Male connectors with solder connection

SV 7.62/270



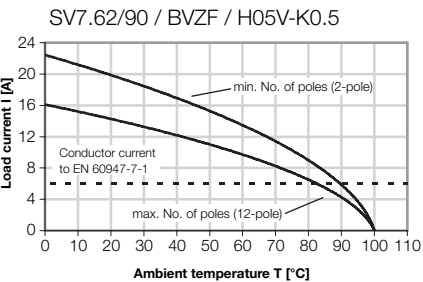
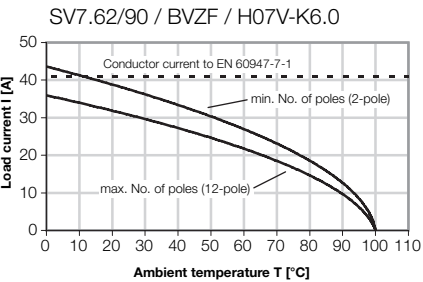
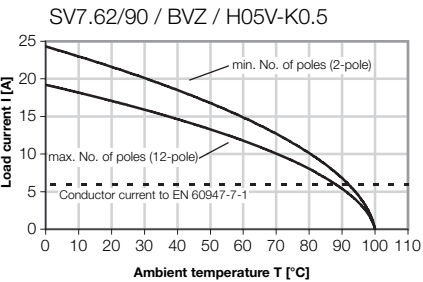
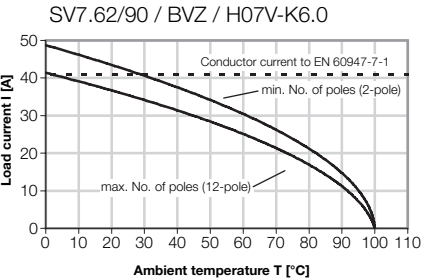
Single row high-current male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connecting and operating reliability thanks to coding pin arrangement that prevents mismating .Additional fixing and integral positioning aid with 3.5 mm pin length for optimised for lead-free wave soldering, plug-in direction 270° to solder pins, completes the range.

- 800 V (IEC) / 600 V (UL)
- 41 A (IEC) / 31 A (UL)

Technical data

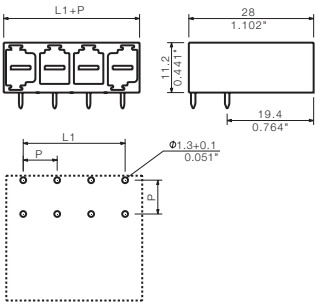
Rated data to IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid H05(07) V-U	mm²			
Stranded H07 V-R	mm²			
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
according to norm				
Tightening torque range	Nm			
Rated current at ambient temperature				
	A	20°C	40°C	
		41	38	
Overvoltage category				
		III	III	II
Pollution severity				
		3	2	2
Rated voltage	V	500	630	800
Rated impulse voltage	kV	6	6	6
UL 1059 rated data - E60693				
		B	C	D
Rated voltage	V	300	300	600
Rated current	A	31	31	5
AWG conductor				
CSA C22.2 rated data - LR12400 B				
		B	C	D
Rated voltage	V	300	300	600
Rated current	A	31	31	5
AWG conductor				
Material data				
Type of insulating material			PBT GF	
Flammability class acc. UL94			V-0	
Contact base material			Cu alloy	
Material of contact surface			tinned	
Information				
• Additional colours on request				
• Rated current related to rated cross-section and min. No. of poles.				
• The data given under CSA relates to a cUL approval - E60693				
• P on drg. = pitch				
• Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.				

Derating curve



SV 7.62/270G

without flanges

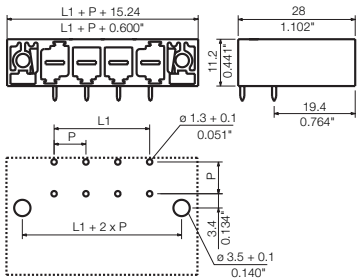
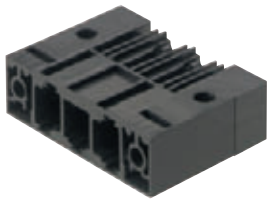


Ordering data

Solder pin length			3.5 mm	
Colour			black	
Pitch 7.62 mm				
Poles	L1 mm (inch)	Qty.	Order No.	Order No.
2	7.62 (0.300)	100		1822750000
3	15.24 (0.600)	100		1822760000
4	22.86 (0.900)	100		1822770000
5	30.48 (1.200)	50		1822780000
6	38.10 (1.500)	50		1822790000
7	45.72 (1.800)	50		1822800000
8	53.34 (2.100)	50		1822810000
9	60.96 (2.400)	50		1822820000
10	68.58 (2.700)	50		1822830000
11	76.20 (3.000)	50		1822840000
12	83.82 (3.300)	50		1822850000

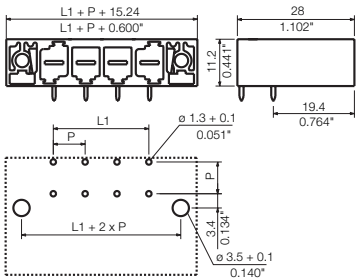
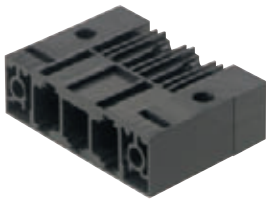
SV 7.62/270F

Interlock flanges



SV 7.62/270SF

Interlock flanges with nuts



Accessories

Coding

See chapter accessories
Order No. 1824410000



Ordering data

Solder pin length				3.5 mm	
Colour				black	
Pitch 7.62 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	7.62	(0.300)	100		1822860000
3	15.24	(0.600)	100		1822870000
4	22.86	(0.900)	100		1822880000
5	30.48	(1.200)	50		1822890000
6	38.10	(1.500)	50		1822900000
7	45.72	(1.800)	50		1822910000
8	53.34	(2.100)	50		1822920000
9	60.96	(2.400)	50		1822930000
10	68.58	(2.700)	50		1822940000
11	76.20	(3.000)	50		1822950000
12	83.82	(3.300)	50		1822960000

Ordering data

Solder pin length				3.5 mm	
Colour				black	
Pitch 7.62 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	7.62	(0.300)	100		1852760000
3	15.24	(0.600)	100		1852770000
4	22.86	(0.900)	100		1852780000
5	30.48	(1.200)	50		1852790000
6	38.10	(1.500)	50		1852800000
7	45.72	(1.800)	50		1852810000
8	53.34	(2.100)	50		1852820000
9	60.96	(2.400)	50		1852830000
10	68.58	(2.700)	50		1852840000
11	76.20	(3.000)	50		1852850000
12	83.82	(3.300)	50		1852860000

BVZ 7.62



High-current female connector with the proven, steel tension clamp technology, for side-by-side mounting without losing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connecting and operating reliability thanks to coding pin arrangement that prevents mismating, unique coding options and 4-point contact. Superb marking facilities prevent wiring errors.

- 0.20 - 6 mm² (IEC) / 22 - 10 AWG (UL)
- 800 V (IEC) / 600 V (UL)
- 41 A (IEC) / 31 A (UL)

Technical data

Rated data to IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.2...6
Solid H05(07) V-U	mm ²	0.2...6
Stranded H07 V-R	mm ²	
Flexible H05(07) V-K	mm ²	0.5...6
Flexible with ferrule	mm ²	0.25...6
Ferrule with plastic collar	mm ²	0.25...4
Stripping length	mm	8
Screwdriver blade	mm	0.6 x 3.5
according to norm		DIN 5264
Tightening torque range	Nm	0.5...0.6

**Rated current
at ambient temperature**

A	41	38
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Overvoltage category
Pollution severity

Rated voltage	V	500	630	800
Rated impulse voltage	kV	6	6	6

UL 1059 rated data - E60693

Rated voltage	V	300	300	600
Rated current	A	31	31	5
AWG conductor		22-10		

CSA C22.2 rated data - LR12400 B

Rated voltage	V	300	300	600
Rated current	A	31	31	5
AWG conductor		24-10		

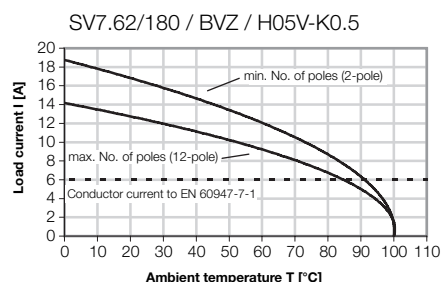
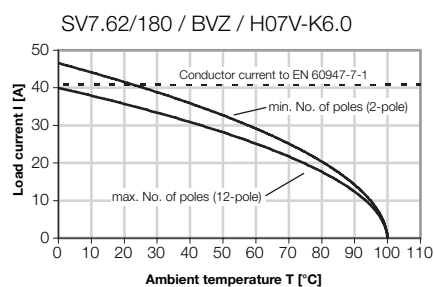
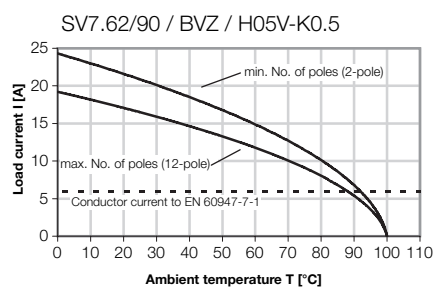
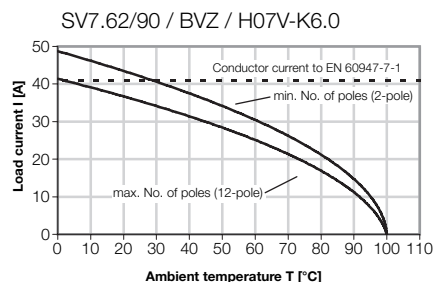
Material data

Type of insulating material	PBT
Flammability class acc. UL94	V-0
Contact base material	Cu alloy
Material of contact surface	tinned

Information

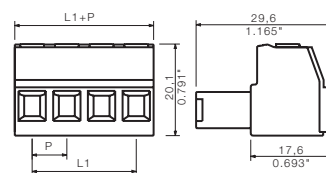
- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228 pt 1
- Wire end ferrule with plastic collar to DIN 46228 pt 4
- The data given under CSA relates to a cUL approval - E60693
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

Derating curve



BVZ 7.62/180

without flanges



Ordering data

Solder pin length

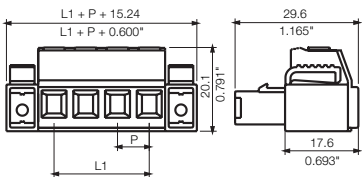
Colour	black
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Pitch 7.62 mm

Profs	L1 mm	(inch)	Qty.	Order No.	Order No.
2	7.62	(0.300)	100		1821520000
3	15.24	(0.600)	100		1821530000
4	22.86	(0.900)	100		1821540000
5	30.48	(1.200)	50		1821550000
6	38.10	(1.500)	50		1821560000
7	45.72	(1.800)	50		1821570000
8	53.34	(2.100)	50		1821580000
9	60.96	(2.400)	50		1821590000
10	68.58	(2.700)	50		1821600000
11	76.20	(3.000)	50		1821610000
12	83.82	(3.300)	50		1821620000

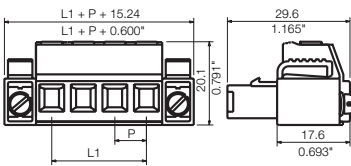
BVZ 7.62/180F

Interlock flanges without screws



BVZ 7.62/180SF

Interlock flanges with screws



Accessories

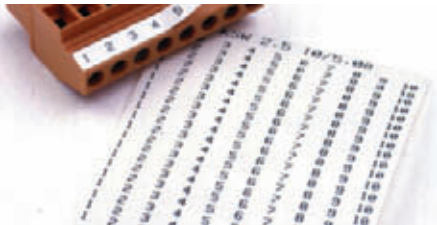
Coding

See chapter accessories
Order No. 1824410000



Marking strips

See chapter accessories



Ordering data

Solder pin length					
Colour					
black					
Pitch 7.62 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	7.62	(0.300)	100		1821630000
3	15.24	(0.600)	100		1821640000
4	22.86	(0.900)	100		1821650000
5	30.48	(1.200)	50		1821660000
6	38.10	(1.500)	50		1821670000
7	45.72	(1.800)	50		1821680000
8	53.34	(2.100)	50		1821690000
9	60.96	(2.400)	50		1821700000
10	68.58	(2.700)	50		1821710000
11	76.20	(3.000)	50		1821720000
12	83.82	(3.300)	50		1821730000

Ordering data

Solder pin length					
Colour					
black					
Pitch 7.62 mm					
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	7.62	(0.300)	100		1853010000
3	15.24	(0.600)	100		1853020000
4	22.86	(0.900)	100		1853030000
5	30.48	(1.200)	50		1853040000
6	38.10	(1.500)	50		1853050000
7	45.72	(1.800)	50		1853060000
8	53.34	(2.100)	50		1853070000
9	60.96	(2.400)	50		1853080000
10	68.58	(2.700)	50		1853090000
11	76.20	(3.000)	50		1853100000
12	83.82	(3.300)	50		1853110000

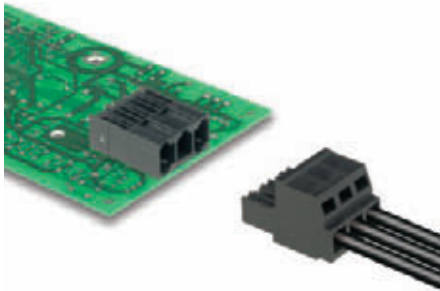
Screwdriver

See chapter accessories
Order No. 9008390000



Socket connectors with tension clamp connection

BVZF 7.62



High-current female connector with time-saving, vibration-proof tension clamp connection, for side-by-side mounting without losing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connecting and operating reliability thanks to coding pin arrangement that prevents mismatching, unique coding options and 4-point contact. Superb marking facilities prevent wiring errors.

- 0.5 - 6 mm² (IEC) / 22 - 10 AWG (UL)
- 800 V (IEC) / 600 V (UL)
- 38 A (IEC) / 27 A (UL)

Technical data

Rated data to IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.2...6
Solid H05(07) V-U	mm ²	0.2...6
Stranded H07 V-R	mm ²	
Flexible H05(07) V-K	mm ²	0.5...6
Flexible with ferrule	mm ²	0.25...4
Ferrule with plastic collar	mm ²	0.25...4
Stripping length	mm	8
Screwdriver blade	mm	0.8 x 4.0
according to norm		DIN 5264-A
Tightening torque range	Nm	

Rated current

at ambient temperature		20°C	40°C
A		38	33

Overvoltage category

		III	III	II
--	--	-----	-----	----

Pollution severity

		3	2	2
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Rated voltage	V	500	630	800
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Rated impulse voltage	kV	6	6	6
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UL 1059 rated data - E60693

		B	C	D
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Rated voltage	V	300	300	600
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Rated current	A	27	27	5
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AWG conductor		22-10		
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CSA C22.2 rated data - LR12400 B

		B	C	D
--	--	---	---	---

Rated voltage	V	300	300	600
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Rated current	A	27	27	5
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AWG conductor		22-10		
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Material data

Type of insulating material		PBT
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Flammability class acc. UL94		V-0
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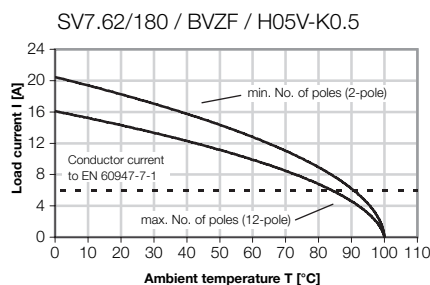
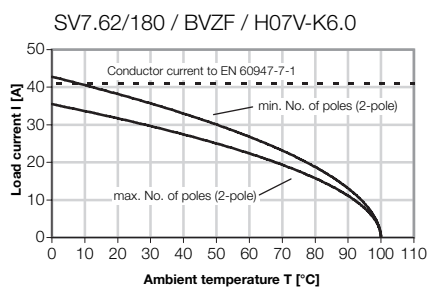
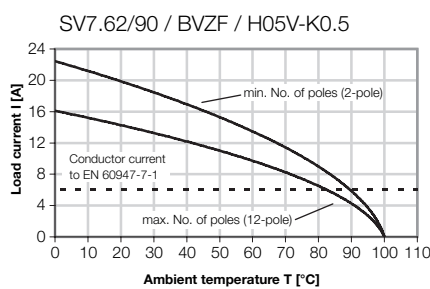
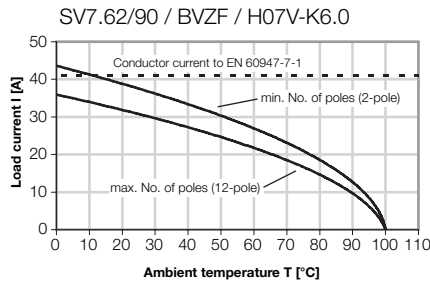
Contact base material		Cu alloy
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Material of contact surface		tinned
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Information

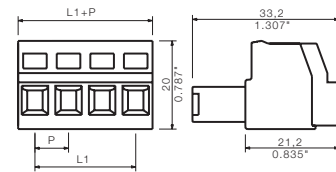
- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228 pt 1
- Wire end ferrule with plastic collar to DIN 46228 pt 4
- The data given under CSA relates to a cUL approval - E60693
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

Derating curve



BVZF 7.62/180

without flanges



Ordering data

Solder pin length

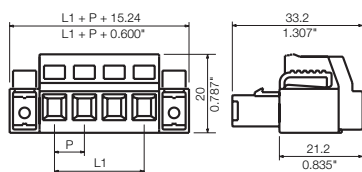
Colour	black
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Pitch 7.62 mm

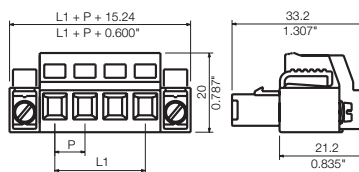
Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
4	22.86	(0.900)	100		1821760000
5	30.48	(1.200)	50		1821770000
6	38.10	(1.500)	50		1821780000
7	45.72	(1.800)	50		1821790000
8	53.34	(2.100)	50		1821800000
9	60.96	(2.400)	50		1821810000
10	68.58	(2.700)	50		1821820000
11	76.20	(3.000)	50		1821830000
12	83.82	(3.300)	50		1821840000

BVZF 7.62/180F

Interlock flanges without screws

**BVZF 7.62/180SF**

Interlock flanges with screws



Accessories

Coding

See chapter accessories
Order No. 1824410000



Marking strips

See chapter accessories

Screwdriver

See chapter accessories
Order No. 9008330000



Ordering data

Solder pin length

Colour

black

Pitch 7.62 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
4	22.86	(0.900)	100		1821870000
5	30.48	(1.200)	50		1821880000
6	38.10	(1.500)	50		1821890000
7	45.72	(1.800)	50		1821900000
8	53.34	(2.100)	50		1821910000
9	60.96	(2.400)	50		1821920000
10	68.58	(2.700)	50		1821930000
11	76.20	(3.000)	50		1821940000
12	83.82	(3.300)	50		1821950000

Ordering data

Solder pin length

Colour

black

Pitch 7.62 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
4	22.86	(0.900)	100		1853210000
5	30.48	(1.200)	50		1853220000
6	38.10	(1.500)	50		1853230000
7	45.72	(1.800)	50		1853240000
8	53.34	(2.100)	50		1853250000
9	60.96	(2.400)	50		1853260000
10	68.58	(2.700)	50		1853270000
11	76.20	(3.000)	50		1853280000
12	83.82	(3.300)	50		1853290000

