

OMNIMATE Power

PCB terminals

PCB connectors

Through-Panel Terminals

Accessories

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OMNIMATE – device connectivity



OMNIMATE Power PCB terminals

OMNIMATE Power PCB terminals	Clamping yoke screw connection		
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		- Pitch dimension 12.70 mm	H.11
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OMNIMATE Power PCB terminals

High-power connections up to 150 A / 1,000 V

The OMNIMATE Power PCB terminals – ranging from the LUP in 10.16-mm pitch to the LXXX in 15.00-mm pitch – is approved for unlimited international use in applications according to UL 1059 (600 V) and IEC (1,000 V). Weidmüller's self-securing steel clamping yoke is 100 % maintenance free. It provides vibration-proof connections to the PCB for wires up to 50 mm².

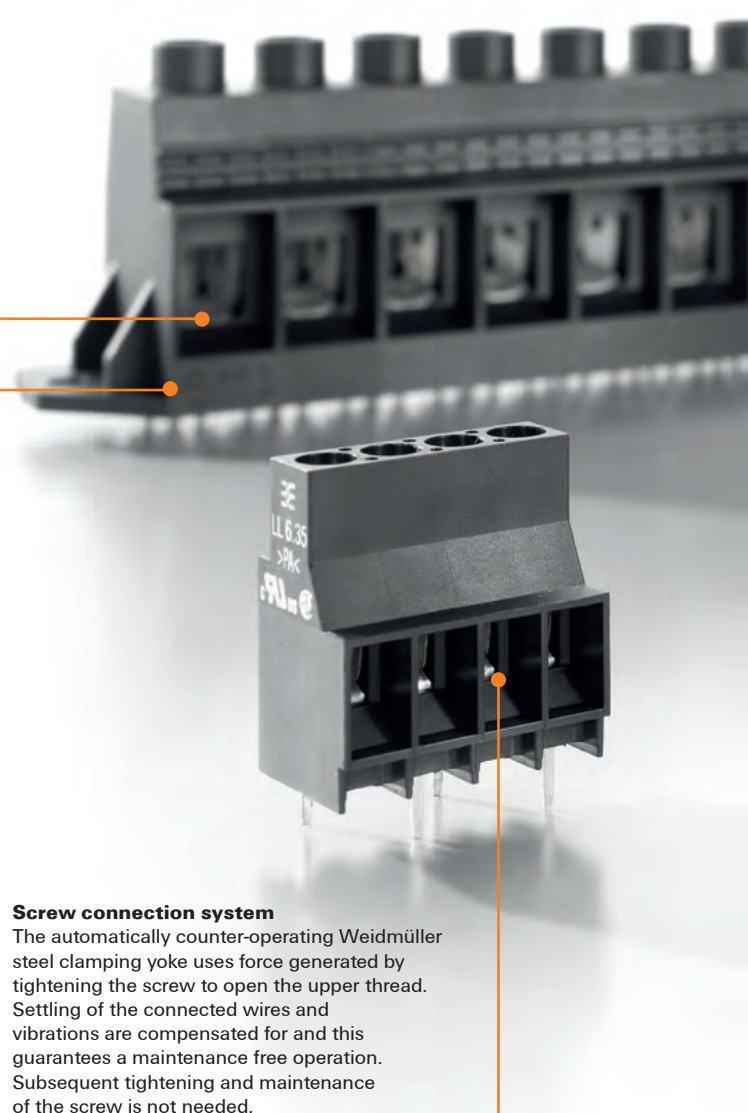
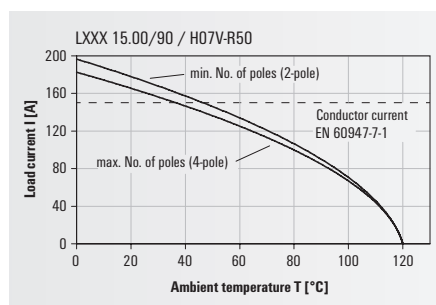
Unrivalled clamping

With an unmatched clamping range, the LXXX 15.0 offers a safe and strong wire connection for cross-sections up to 50 mm² / AWG1 and 150 A to the circuit board.



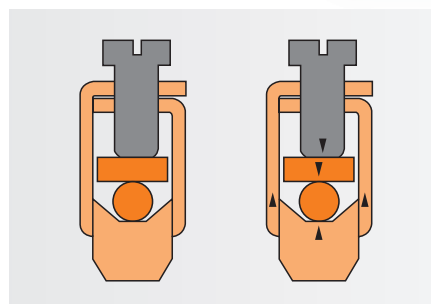
Power reserve for safety

The high-performance WEMID insulation material helps increase the availability of the system. With an RTI (relative temperature index) of 120 °C, the OMNIMATE Power PCB terminals exceed the upper continuous-use temperature recommended by the Standard PA (100 °C) by 20 °C. Thus there are more power reserves and improved safety in event of temperature fluctuations or overloads.



Screw connection system

The automatically counter-operating Weidmüller steel clamping yoke uses force generated by tightening the screw to open the upper thread. Settling of the connected wires and vibrations are compensated for and this guarantees a maintenance free operation. Subsequent tightening and maintenance of the screw is not needed.



Standard-compliant integration

Weidmüller terminals meet the extended creepage and clearance distances according to UL and finger safety in accordance with the IEC 61800-5-1 device standard.

**Wire protection**

The integrated "Wire Guard" mechanism on the OMNIMATE Power PCB terminals prevents wires from being inserted improperly and prevents a malfunctioning contact.

**Integrated test point**

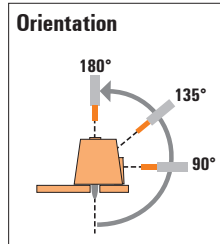
The required maintenance and measurements can be carried out in a safe, reliable and convenient manner.

**Labelling and assigning**

Terminals are available with custom direct printing, versatile Dekafix labelling, affordable adhesive strips and colour coding.



<http://www.OMNIMATE.net>
 = 300 V (UL) / 1,000 V (IEC)

 = 600 V (UL) / 1,000 V (IEC)


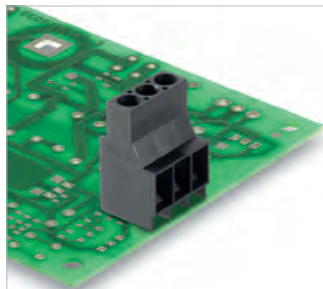
PCB terminals

Type of connection		Clamping range	Type	IEC / UL	Page				
Screw	 Screw Clamping yoke	≤ 6 mm²		LL 6.35/././90 V*	IEC: 1,000 V/32 A/0.18 - 6 mm² UL: 600 V/30 A/AWG 26 - 10 H.6				
		≤ 16 mm²		LU 10.16	IEC: 1,000 V/76 A/0.5 - 16 mm² UL: 300 V/65 A/AWG 26 - 6 H.8				
				LUP 10.16	IEC: 1,000 V/76 A/0.5 - 16 mm² UL: 300 V/58 A/AWG 26 - 6 H.9				
				LUP 10.16/././90 V*	IEC: 1,000 V/76 A/0.5 - 16 mm² UL: 600 V/51 A/AWG 22 - 6 H.10				
				LUP 12.70	IEC: 1,000 V/76 A/0.5 - 16 mm² UL: 600 V/58 A/AWG 26 - 6 H.11				
			≤ 25 mm²		LX 15.00	IEC: 1,000 V/101 A/0.5 - 25 mm² UL: 600 V/85 A/AWG 16 - 4 H.12			
				LXB 15.00	IEC: 1,000 V/101 A/1.5 - 25 mm² UL: 600 V/85 A/AWG 16 - 4 H.13				
		≤ 50 mm²		LXXX 15.00	IEC: 1,000 V/150 A/0.5 - 50 mm² UL: 600 V/127 A/AWG 20 - 1 H.14				
				LXXX 15.00/././90F	IEC: 1,000 V/150 A/0.5 - 50 mm² UL: 600 V/127 A/AWG 20 - 1 H.15				

* With offset solder pins

Pitch, in mm	6.35	10.16	12.70	15.00
Max. rated voltage, IEC	1,000 V			
UL nominal voltage UL	600 V	300 V	600 V	
				
				
				
				
				
				
				
				
				

LL 6.35



High-power PCB terminal with proven clamping yoke screw connection, 6.35 mm pitch, for conductor cross-sections up to 6 mm².

- UL 600 V approval for unlimited international use in devices.
- Increased derating reserves due to the use of WEMID insulating material.
- Conductor outlet direction of 90°
- Block construction for versions up to 12 poles

Product data

IEC: 1000 V / 32 A / 0.18 - 6 mm²

UL: 600 V / 30 A / AWG 26 - 10



For additional articles and information, refer to catalog.weidmueller.com

Note:

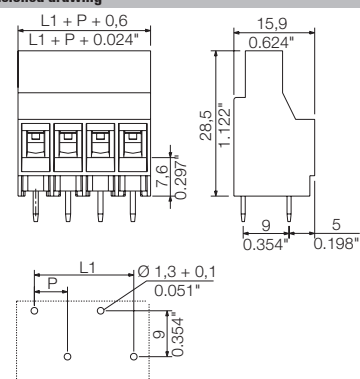
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LL 6.35



UL
600 V

Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.18...6	
Solid core H05(07) V-U	mm ²	0.18...6	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.22...4	
Flexible with ferrule	mm ²	0.5...4	
Ferrule with plastic collar	mm ²	0.5...2.5	
Stripping length	mm	8	
Screwdriver blade	mm	0.8 x 4.0, PZ 1	
According to norm		DIN 5264	
Tightening torque range	Nm	0.5...0.6	
Rated current, max.	A	32	32
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 8
UL / CUL (Use Group)	B C D		
Rated voltage	V	600	600 600
Rated current	A	30	30 5
AWG conductor	AWG	26-10	
CSA (Use Group)	B C D		
Rated voltage	V	600	600 600
Rated current	A	30	30 5
AWG conductor	AWG	26-10	
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

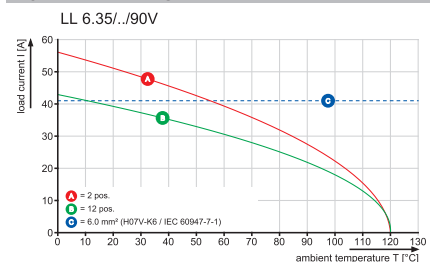
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver	Order No.
SDIS 0.8X4.0X100	9008400000
SDS 0.8X4.0X100	9008340000
Crosshead screwdriver	Order No.
SDK PZ1	9008530000

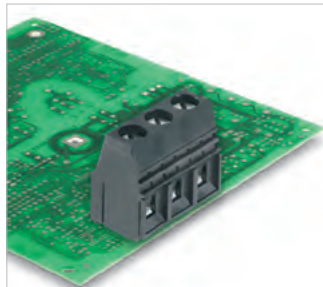
Ordering data

Solder pin length				5 mm
Colour				Black
Pitch		6.35 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	6.35	0.250	50	1356830000
3	12.70	0.500	50	1356840000
4	19.05	0.750	50	1356850000
5	25.40	1.000	50	1356870000
6	31.75	1.250	50	1356880000
7	38.10	1.500	50	1356890000
8	44.45	1.750	50	1356900000
9	50.80	2.000	50	1356920000
10	57.15	2.250	50	1356930000
11	63.50	2.500	50	1356940000
12	69.85	2.750	50	1356950000

Representative deratings curve



LU 10.16/./90



High-power PCB Terminal with clamping yoke screw connection, in 10.16 mm pitch for wire cross-sections up to 16 mm² (AWG 6).

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction: 90° version.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²	0.14...16		
Solid core H05(07) V-U	mm²	0.5...16		
Stranded H07 V-R		6...16		
Flexible H05(07) V-K	mm ²	0.5...16		
Flexible with ferrule	mm ²	2.5...10		
Ferrule with plastic collar	mm ²	2.5...10		
Stripping length	mm	12		
Screwdriver blade	mm	1.0 x 5.5		
According to norm		DIN 5264		
Tightening torque range	Nm	1.2...1.5		
Rated current, max.	A	76	76	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²	16		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	690	690	1000
Rated impulse voltage	kV	6	6	4
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300	150	300
Rated current	A	65	65	10
AWG conductor	AWG	26-6		
CSA (Use Group)		B	C	D
Rated voltage	V	300	150	300
Rated current	A	65	65	10
AWG conductor	AWG	22-6		
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		E-Cu		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2 x 1.2		
Solder eyelet Ø = D	mm	1.6		
Solder eyelet Ø tolerance	mm	+ 0,1		

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²

UL: 300 V / 65 A / AWG 26 - 6



For additional articles and information, refer to catalog.weidmueller.com

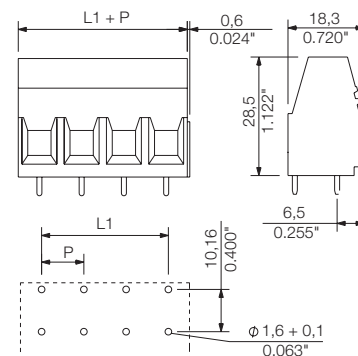
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = 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.

LU 10.16/./90



Dimensioned drawing



Ordering data

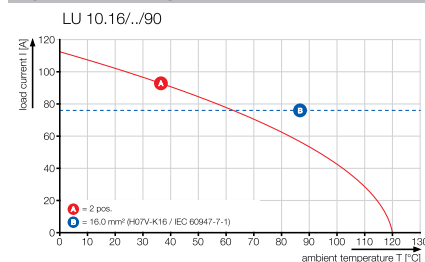
Solder pin length		4.5 mm	
Colour		Black	
Pitch	10.16 mm		
Pol.	L1	(inch)	Qty. Order No.
2	10.16	0.400	20 1934140000
3	20.32	0.800	20 1921450000
4	30.48	1.200	20 1226220000
5	40.64	1.600	20 1226230000
6	50.80	2.000	20 1226240000
7	60.96	2.400	20 1226250000
8	71.12	2.800	20 1226260000
9	81.28	3.200	20 1226270000
10	91.44	3.600	20 1226280000

Accessories

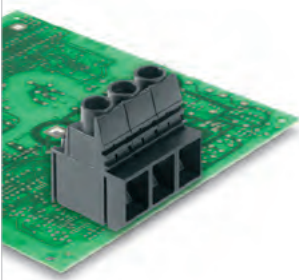
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver	Order No.
SDIS 1.0X5.5X125	9008410000
SDS 1.0X5.5X150	9008350000
Identification systems	
DEK 5 NEUTRAL	0473360000
DEK 5/5 MC-10 NE WS	1609801044

Representative deratings curve



LUP 10.16/./90



High-power PCB Terminal with clamping yoke screw connection, in 10.16 mm pitch for wire cross-sections up to 16 mm² (AWG 6).

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction: 90°
- With integrated test point for the PS 2.0 test plug.

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²
UL: 300 V / 58 A / AWG 26 - 6



For additional articles and information, refer to catalog.weidmuller.com

Note:

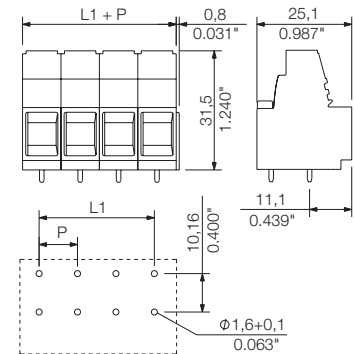
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LUP 10.16/./90

with test point



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.13...16
Solid core H05(07) V-U	mm ²	0.5...16
Stranded H07 V-R	mm ²	6...16
Flexible H05(07) V-K	mm ²	0.5...16
Flexible with ferrule	mm ²	2.5...10
Ferrule with plastic collar	mm ²	2.5...10
Stripping length	mm	12
Screwdriver blade	mm	1.0 x 5.5
According to norm		DIN 5264
Tightening torque range	Nm	1.2...1.5
Rated current, max.	A	76 72
At ambient temperature		20°C 40°C
For conductor cross-section	mm ²	16
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	800 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)	B C D	
Rated voltage	V	300 300 300
Rated current	A	58 58 10
AWG conductor	AWG	26-6
CSA (Use Group)	B C D	
Rated voltage	V	300 300 300
Rated current	A	58 58 10
AWG conductor	AWG	22-6
General data		
Type of insulation material		Wemid (PA)
UL 94 flammability rating		V-0
Contact base material		E-Cu
Material of contact surface		tinned
Pin dimensions = d	mm	1.2 x 1.2
Solder eyelet Ø = D	mm	1.6
Solder eyelet Ø tolerance	mm	+ 0.1

Accessories

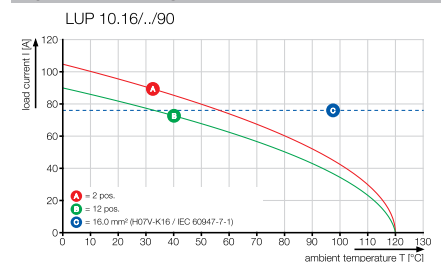
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver	Order No.
SDIS 1.0X5.5X125	9008410000
SDS 1.0X5.5X150	9008350000
Crosshead screwdriver	
SDIK PZ2	9008890000
SDK PZ2	9008540000
Test plug	
PS 2.0 MC	0310000000
Identification systems	
DEK 5 NEUTRAL	0473360000
DEK 5/5 MC-10 NE WS	1609801044

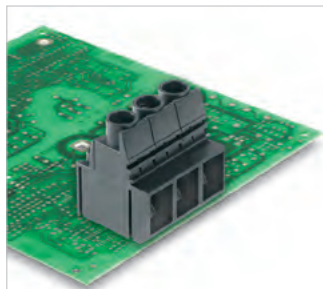
Ordering data

Solder pin length		5.0 mm		
Colour		Black		
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	20	1226290000
3	20.32	0.800	20	1226300000
4	30.48	1.200	20	1226310000
5	40.64	1.600	20	1226320000
6	50.80	2.000	20	1226330000
7	60.96	2.400	20	1226340000
8	71.12	2.800	20	1226350000
9	81.28	3.200	20	1226360000

Representative deratings curve



LUP 10.16/./90V



High-power PCB Terminal with clamping yoke screw connection, in 10.16 mm pitch for wire cross-sections up to 16 mm² (AWG 6).

- UL 600 V approval.
- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction: 90°.
- With integrated test point for PS 2.0 test plug.

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²

UL: 600 V / 51 A / AWG 22 - 6



For additional articles and information, refer to catalog.weidmuller.com

Note:

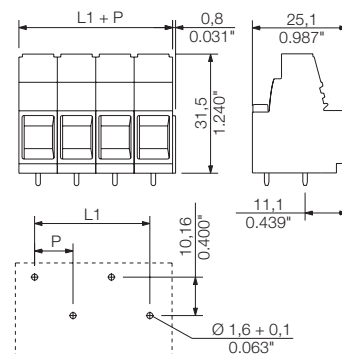
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LUP 10.16/./90V

with test point



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.13...16
Solid core H05(07) V-U	mm²	0.5...16
Stranded H07 V-R	mm ²	6...16
Flexible H05(07) V-K	mm ²	0.5...16
Flexible with ferrule	mm ²	2.5...10
Ferrule with plastic collar	mm ²	2.5...10
Stripping length	mm	12
Screwdriver blade	mm	1.0 x 5.5
According to norm		DIN 5264
Tightening torque range	Nm	1.2...1.5
Rated current, max.	A	76 72
At ambient temperature		20°C 40°C
For conductor cross-section	mm ²	16
Overvoltage category	III	III II
Pollution severity	3	2 2
Rated voltage	V	800 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	51 51 5
AWG conductor	AWG	22-6
CSA (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	51 51 5
AWG conductor	AWG	22-6
General data		
Type of insulation material		Wemid (PA)
UL 94 flammability rating		V-0
Contact base material		E-Cu
Material of contact surface		tinned
Pin dimensions = d	mm	1.2 x 1.2
Solder eyelet Ø = D	mm	1.6
Solder eyelet Ø tolerance	mm	+ 0.1

Accessories

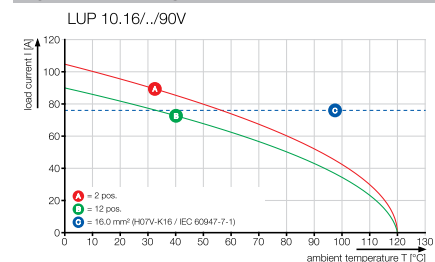
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver	Order No.
SDIS 1.0X5.5X125	9008410000
SDS 1.0X5.5X150	9008350000
Crosshead screwdriver	
SDIK PZ2	9008890000
SDK PZ2	9008540000
Test plug	
PS 2.0 MC	0310000000
Identification systems	
DEK 5 NEUTRAL	0473360000
DEK 5/5 MC-10 NE WS	1609801044

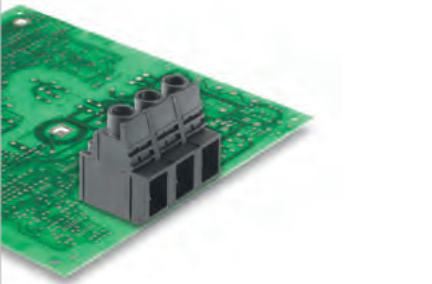
Ordering data

Solder pin length				5.0 mm
Colour				Black
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	20	1192980000
3	20.32	0.800	20	1192990000
4	30.48	1.200	20	1193000000
5	40.64	1.600	20	1193010000
6	50.80	2.000	20	1193020000
7	60.96	2.400	20	1193030000
8	71.12	2.800	20	1193040000
9	81.28	3.200	20	1193050000

Representative deratings curve



LUP 12.7/./90



High-power PCB Terminal with clamping yoke screw connection, in 12.70 mm pitch for wire cross-sections up to 16 mm².

- UL 600 V approval.
- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction: 90°.
- With integrated test point for PS 2.0 test plug.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...16	
Solid core H05(07) V-U	mm²	0.5...16	
Stranded H07 V-R		6...16	
Flexible H05(07) V-K	mm ²	0.5...16	
Flexible with ferrule	mm ²	2.5...10	
Ferrule with plastic collar	mm ²	2.5...10	
Stripping length	mm	12	
Screwdriver blade	mm	1.0 x 5.5	
According to norm		DIN 5264	
Tightening torque range	Nm	1.2...1.5	
Rated current, max.	A	76	76
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	16	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	1000	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	58	58 5
AWG conductor	AWG	26-6	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	58	58 5
AWG conductor	AWG	22-6	
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.2 x 1.2	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²
UL: 600 V / 58 A / AWG 26 - 6



For additional articles and information, refer to catalog.weidmueller.com

Note:

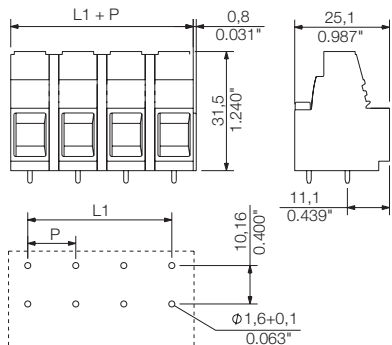
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LUP 12.7/./90

with test point



Dimensioned drawing



Accessories

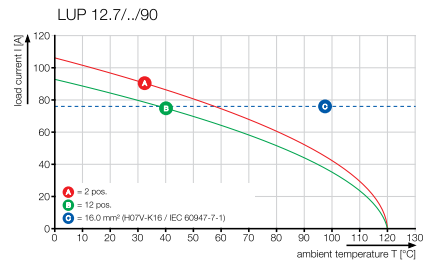
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver	Order No.
SDIS 1.0X5.5X125	9008410000
SDS 1.0X5.5X150	9008350000
Crosshead screwdriver	
SDIK PZ2	9008890000
SDK PZ2	9008540000
Test plug	
PS 2.0 MC	0310000000
Identification systems	
DEK 5 NEUTRAL	0473360000
DEK 5/5 MC-10 NE WS	1609801044

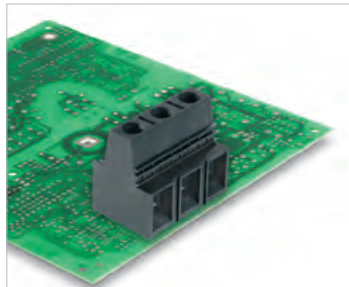
Ordering data

Solder pin length		5.0 mm		
Colour		Black		
Pitch	12.70 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	12.70	0.500	20	1226370000
3	25.40	1.000	20	1226380000
4	38.10	1.500	20	1226390000
5	50.80	2.000	20	1226410000
6	63.50	2.500	20	1226420000
7	76.20	3.000	20	1226430000
8	88.90	3.250	20	1226440000
9	101.60	4.000	20	1226450000

Representative deratings curve



LX 15.00/./90



High-power PCB Terminal with clamping yoke screw connection, in 15.00 mm pitch for wire cross-sections up to 25 mm² (AWG 4).

- UL 600 V approval.
- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction: 90°.
- With integrated test point for PS 2.0 test plug.
- Versions up to 8 poles have block construction.
- Available with and without mounting flange.

Product data

IEC: 1000 V / 101 A / 1.5 - 25 mm²
UL: 600 V / 85 A / AWG 16 - 4



For additional articles and information, refer to catalog.weidmueller.com

Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = 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.

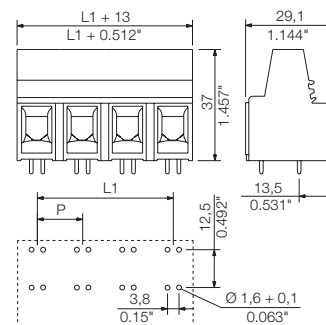
LX 15.00/./90

with test point



UL 600 V

Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	1.31...25
Solid core H05(07) V-U	mm²	1.5...16
Stranded H07 V-R	mm ²	6...25
Flexible H05(07) V-K	mm ²	1.5...25
Flexible with ferrule	mm ²	1.5...16
Ferrule with plastic collar	mm ²	1.5...16
Stripping length	mm	16
Screwdriver blade	mm	1.0 x 5.5
According to norm		DIN 5264
Tightening torque range	Nm	2.4...4
Rated current, max.	A	101 101
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	25
Overvoltage category	III	III II
Pollution severity	3	2 2
Rated voltage	V	1000 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	85 85 5
AWG conductor	AWG	16-4
CSA (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	85 85 5
AWG conductor	AWG	16-4
General data		
Type of insulation material		Wemid (PA)
UL 94 flammability rating		V-0
Contact base material		E-Cu
Material of contact surface		tinned
Pin dimensions = d	mm	1.2 x 1.2
Solder eyelet Ø = D	mm	1.6
Solder eyelet Ø tolerance	mm	+ 0.1

Accessories

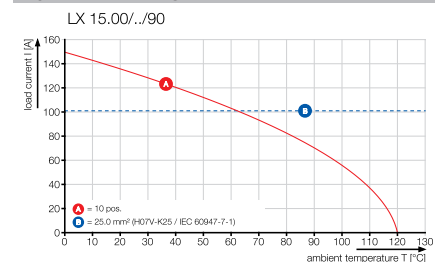
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver	Order No.
SDIS 1.2X6.5X150	9008420000
SDS 1.2X6.5X150	9009010000
Crosshead screwdriver	
SDIK PZ2	9008890000
SDK PZ2	9008540000
Test plug	
PS 2.0 MC	0310000000
Identification systems	
DEK 5 NEUTRAL	0473360000
DEK 5/5 MC-10 NE WS	1609801044

Ordering data

Solder pin length		4.5 mm		
Colour		Black		
Pitch	15.00 mm			
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	20	1226460000
2	15.00	0.591	20	1226470000
3	30.00	1.181	20	1174720000
4	45.00	1.772	20	1226480000
5	60.00	2.362	20	1226490000
6	75.00	2.953	10	1226500000
7	90.00	3.543	10	1226510000
8	105.00	4.134	10	1921480000

Representative deratings curve



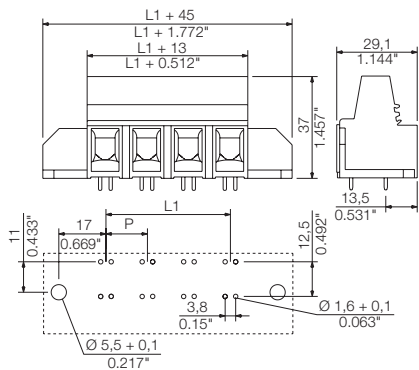
LXB 15.00/./90

with fixing flange and test point



UL
600 V

Dimensioned drawing



Ordering data

Solder pin length			4.5 mm	
Colour			Black	
Pitch	15.00 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.00	0.591	20	1226520000
3	30.00	1.181	20	1226530000
4	45.00	1.772	20	1226540000
5	60.00	2.362	20	1226550000
6	75.00	2.953	10	1226560000
7	90.00	3.543	10	1226570000
8	105.00	4.134	10	1226580000

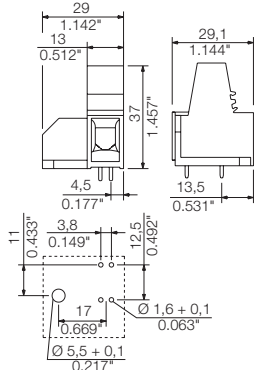
LXBL 15.00/./90

with fixing flange left and test point



UL
600 V

Dimensioned drawing

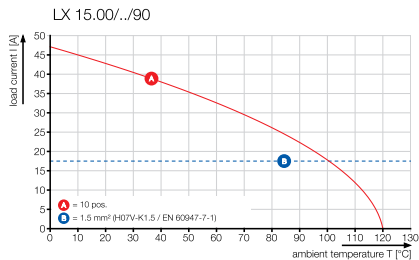


Ordering data

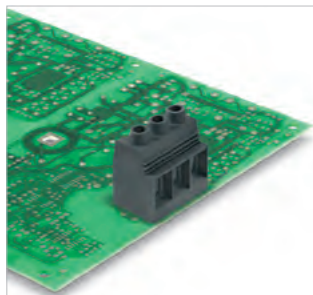
Solder pin length				4.5 mm	
Colour				Black	
Pitch		15.00 mm			
Pol.	L1	(inch)	Qty.	Order No.	
1	0.00	0.000	20	1226590000	

H

Additional deratings curves



LXXX 15.00/./90



High-power PCB Terminal with clamping yoke screw connection, in 15.00 mm pitch for wire cross-sections up to 50 mm² (AWG 1).

- UL 600 V approval for unlimited international usage in devices.
- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction of 90°.
- With integrated test point for PS 2.0 test plug.
- Versions up to 8 poles have block construction.
- Available with and without mounting flange.

Product data

IEC: 1000 V / 150 A / 0.5 - 50 mm²

UL: 600 V / 127 A / AWG 20 - 1



For additional articles and information, refer to catalog.weidmuller.com

Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = 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.
- IP 20 from 16 mm² to 50 mm²

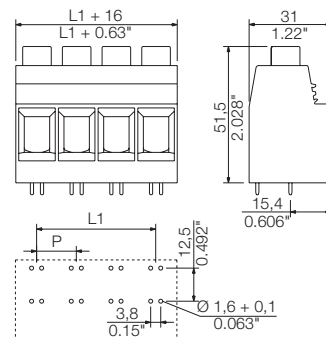
LXXX 15.00/./90

with test point



UL
600 V

Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.5...50
Solid core H05(07) V-U	mm²	0.5...16
Stranded H07 V-R	mm ²	6...50
Flexible H05(07) V-K	mm ²	0.5...35
Flexible with ferrule	mm ²	0.5...35
Ferrule with plastic collar	mm ²	0.5...35
Stripping length	mm	18
Screwdriver blade	mm	1.2 x 6.5
According to norm		DIN 5264
Tightening torque range	Nm	2.5...4
Rated current, max.	A	150 150 150
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	35
Overvoltage category	III	III II
Pollution severity	3	2 2
Rated voltage	V	1000 1000 1000
Rated impulse voltage	kV	8 8 8
UL / CUL (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	127 127 5
AWG conductor	AWG	20-1
CSA (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	127 127 5
AWG conductor	AWG	20-1
General data		
Type of insulation material		Wemid (PA)
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		tinned
Pin dimensions = d	mm	1.2 x 1.2
Solder eyelet Ø = D	mm	1.6
Solder eyelet Ø tolerance	mm	+ 0.1

Accessories

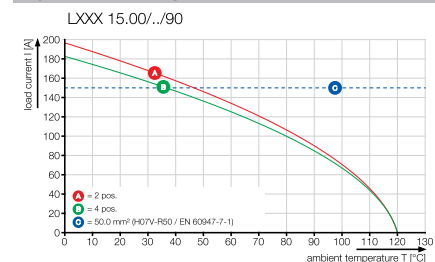
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver	Order No.
SDIS 1.2X6.5X150	9008420000
SDS 1.2X6.5X150	9009010000
Crosshead screwdriver	
SDIK PZ2	9008890000
SDK PZ2	9008540000
Test plug	
PS 2.0 MC	0310000000
Identification systems	
DEK 5 NEUTRAL	0473360000
DEK 5/5 MC-10 NE WS	1609801044

Ordering data

Solder pin length		4.5 mm		
Colour		Black		
Pitch	15.00 mm			
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	20	1047120000
2	15.00	0.591	20	1047130000
3	30.00	1.181	10	1047140000
4	45.00	1.772	10	1047150000
5	60.00	2.363	16	1386250000
6	75.00	2.954	12	1386400000
7	90.00	3.545	12	1386550000
8	105.00	4.136	10	1386700000
9	120.00	4.727	8	1386850000

Representative deratings curve

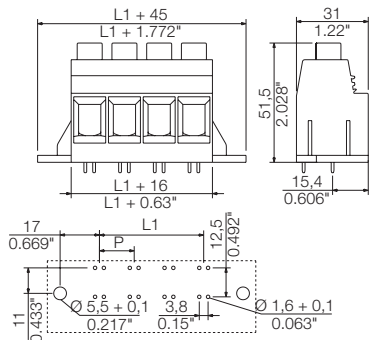


LXXX 15.00/./90F

with fixing flange and test point



Dimensioned drawing



Ordering data

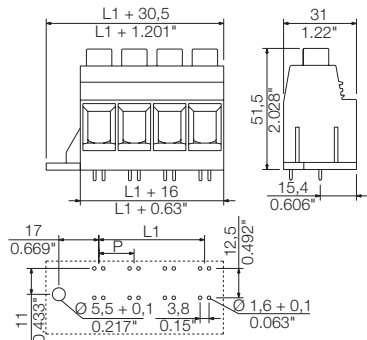
Solder pin length				4.5 mm	
Colour				Black	
Pitch		15.00 mm			
Pol.	L1	(inch)	Qty.	Order No.	
1	0.00	0.000	20	1047280000	
2	15.00	0.591	20	1047290000	
3	30.00	1.181	10	1047300000	
4	45.00	1.772	10	1047310000	
5	60.00	2.363	12	1386290000	
6	75.00	2.954	10	1386440000	
7	90.00	3.545	8	1386590000	
8	105.00	4.136	8	1386740000	
9	120.00	4.727	8	1386890000	

LXXX 15.00/./90FL

with fixing flange left and test point



Dimensioned drawing



Ordering data

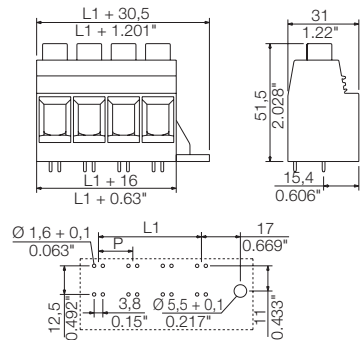
Solder pin length				4.5 mm	
Colour				Black	
Pitch		15.00 mm			
Pol.	L1	(inch)	Qty.	Order No.	
1	0.00	0.000	20	1047440000	
2	15.00	0.591	20	1047450000	
3	30.00	1.181	10	1047460000	
4	45.00	1.772	10	1047470000	
5	60.00	2.363	12	1386330000	
6	75.00	2.954	12	1386480000	
7	90.00	3.545	10	1386630000	
8	105.00	4.136	8	1386780000	
9	120.00	4.727	8	1386930000	

LXXX 15.00/./90FR

with fixing flange right and test point



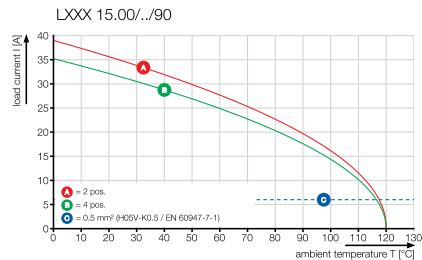
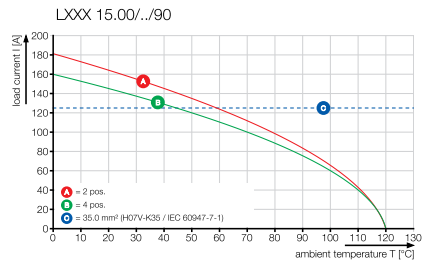
Dimensioned drawing



Ordering data

Solder pin length				4.5 mm
Colour				Black
Pitch	15.00 mm			
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	20	1047600000
2	15.00	0.591	20	1047610000
3	30.00	1.181	10	1047620000
4	45.00	1.772	10	1047630000
5	60.00	2.363	12	1386370000
6	75.00	2.954	12	1386520000
7	90.00	3.545	10	1386670000
8	105.00	4.136	8	1386820000
9	120.00	4.727	8	1386970000

Additional deratings curves



OMNIMATE Power PCB connectors

OMNIMATE Power PCB connectors

OMNIMATE Power

Explanation 1.2

OMNIMATE Power Hybrid

Explanation 1.4

Quick selection 1.6

Product selection 1.8

OMNIMATE Power IT

Explanation 1.26

Quick selection 1.28

Product selection 1.30

OMNIMATE Power HP to 4 mm²

Explanation 1.46

Quick selection 1.48

Product selection 1.50

OMNIMATE Power HP to 6 mm²

Explanation 1.66

Quick selection 1.68

Product selection 1.70

OMNIMATE Power HP 16 mm²

Explanation 1.118

Quick selection 1.120

Product selection 1.122

OMNIMATE Power on BOARD

Integrated connection systems delivering innovative drive applications

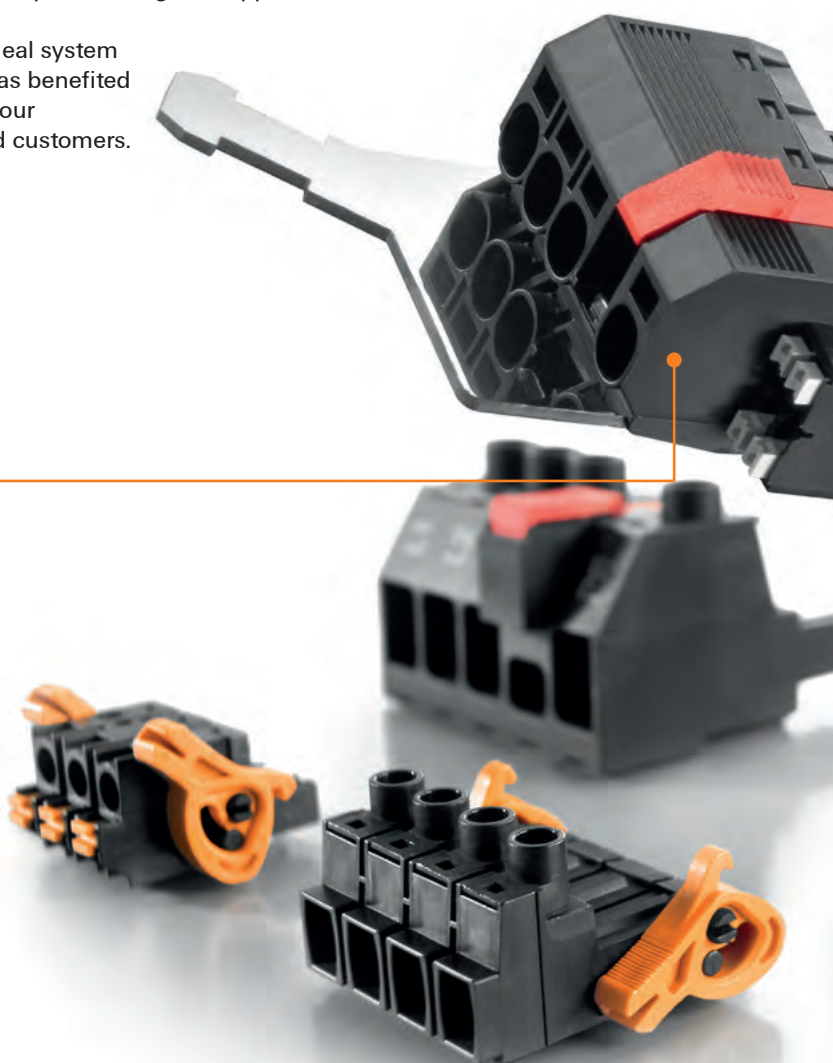
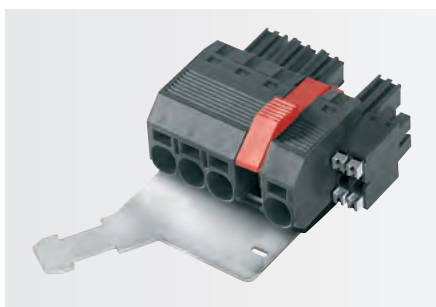
The OMNIMATE Power system excels in power electronics and drive applications because it has implemented and incorporated customer and market requirements.

Custom-fit connection solutions for power electronics – resulting from the synergy between application-oriented components, individual services and competent design-in support.

The following pages show why OMNIMATE Power is the ideal system for power electronics and drive applications. This system has benefited from our broader perspective of component directives and our consistent implementation of requests from the market and customers.

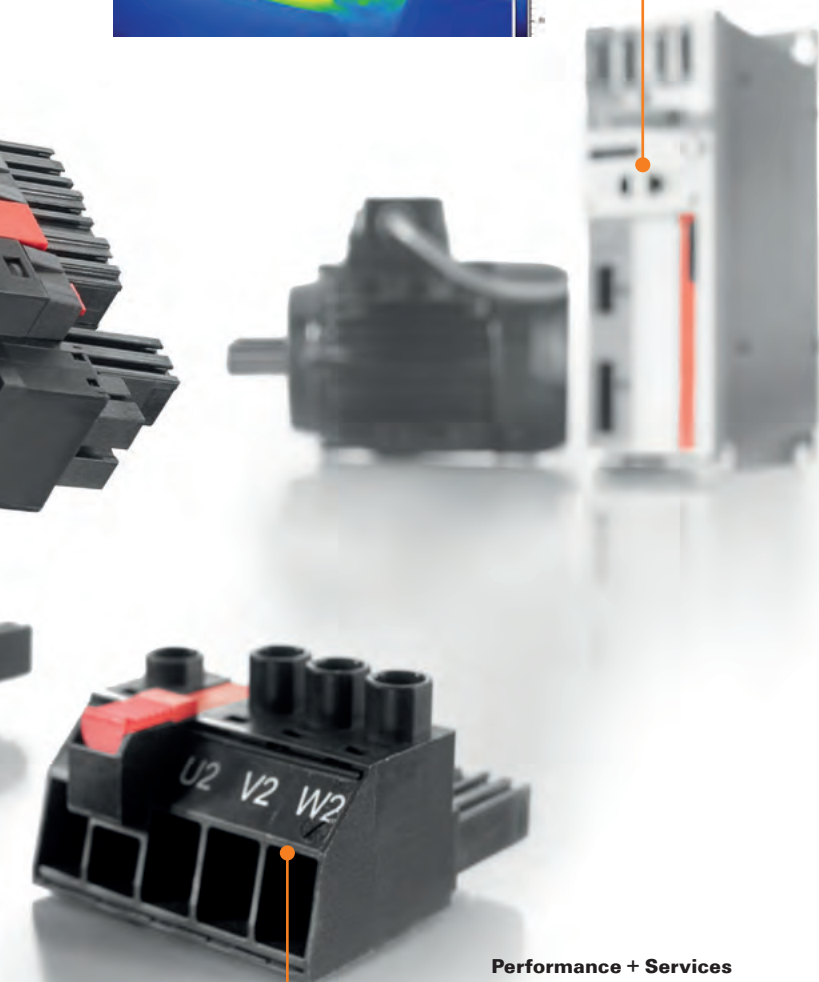
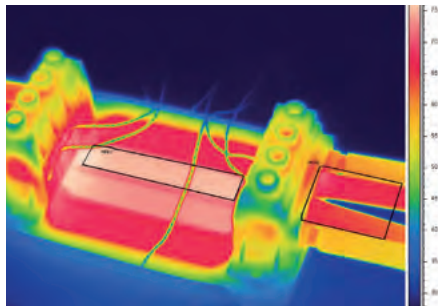
Performance + Innovation

Designed with future requirements in mind whether for cars or servo-drives: hybrid design concepts create an efficient solution from two distinct elements.

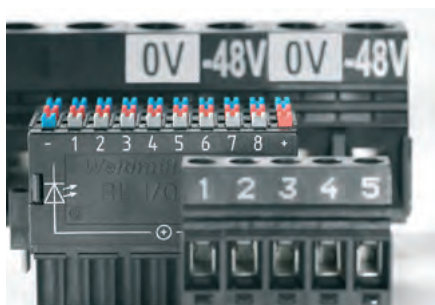


Performance + Support

Weidmüller delivers more than just components. Our design-in competence encompassing work from design and implementation to the market release phase delivers the top results.

**Performance + Services**

Customised services supplement our comprehensive standard portfolio. The housing colour, printing, coding, contact surfaces, packaging and much more can be configured online with just a few mouse clicks.

**An overview of OMNIMATE Power**

The single-source solution that omits no necessary components a result of Weidmüller's technology and application expertise delivers the optimal designed-in results. The following pages describe the individual product lines in detail.

**Design-In Services & Support**

The path to top results starts before component selection and does not end with delivery. More information can be found at <http://galaxy.weidmueller.com>



OMNIMATE Power BV / SV 7.62HP Hybrid – for power, signals and EMC

Three functions in one!

The OMNIMATE Power Hybrid connector provides developers and users with the perfect three-in-one solution.

The hybrid motor connector can simultaneously connect power, signals and a pluggable EMC shield. This allows you to save space on the circuit board, on the outside of the housing and in the electrical cabinet. The self-locking one-handed interlock mechanism requires only one plugging step and thus speeds up installation and maintenance procedures. It is easy to handle and interlocks automatically – even in difficult installation positions. The unique shielding shape with 30° cable entry enables a space savings of up to 10 cm between rows.

Unique safety

Safe, EMC-compliant shield connection for any application situation and with no risk of error.



Unique integration

Three-in-one solution: pluggable shield support, integrated signal contacts, and one-handed security flange.



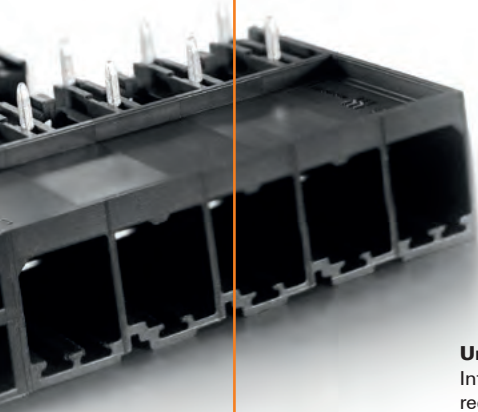
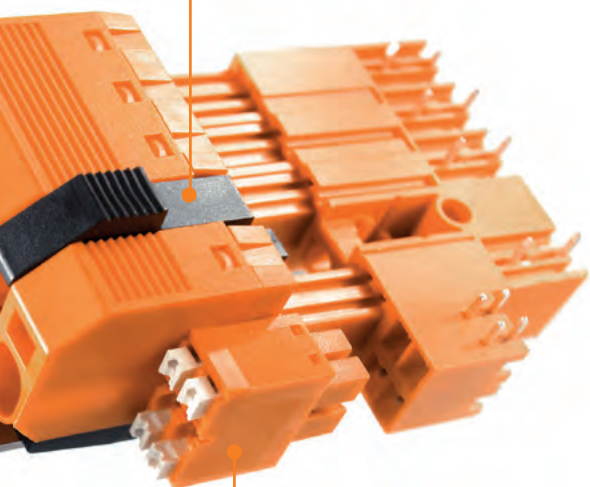
Unique component density

Higher packaging density and more space in the housing wall and on the printed-circuit board due to as much as 38 % space savings in the construction width.

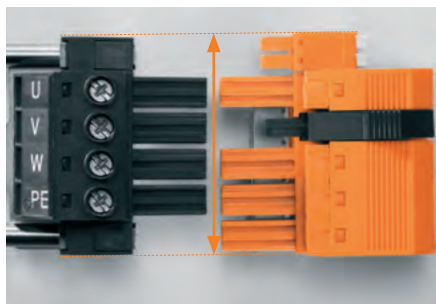


Unique interaction

Plug & Work with intuitive handling: featuring tool-free one-handed operation with automatic snap-in and also “blind” plugging of power, signals and shielding simultaneously.

**Unique innovation**

Integrating functions, optimising processes, and reducing complexity: The conventional 2 outer flanges have simply been replaced by 1 middle flange, 4 signal contacts and 1 pluggable shield support.

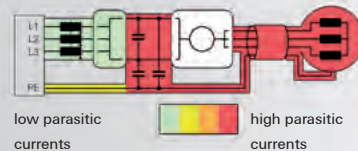
**EMC in theory and in the real world**

The motor feedback (signal feedback from temperature/encoder) in hybrid, shield-within-shield motor cables is usually made from over-sized power contacts or from disconnected I/O connectors. It also normally requires two separate shield connections. During installation and repairs (replacement), it is possible that the shield terminals could be incorrectly connected, left disconnected or lost. With conventional shielding, it can be quite difficult to tighten the flange screws when the connection is located at a difficult to reach location. So this step is often neglected in the real world.

**Reliably avoiding interferences**

As a result, malfunctions can then be caused by the coupling of electromagnetic fields within the sensitive electronics. The pluggable, hybrid shield support features a special EMC spring-contact strip which ensures that the shield connection to the housing is permanent, vibration-proof and covers a large surface area. It allows the shielding braid from the power and signal wires to be connected separately – and enables this to be done automatically in one step so that it is not dependent on the user.

Topology of parasitic currents



Source: Fraunhofer IZM

<http://www.OMNIMATE.net>

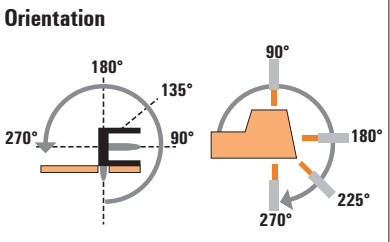
○ = Wire-to-Board

● = Board-to-Board

● = Wire-to-Wire

● = Board-to-Wire





Hybrid pin header



Solder connection



BV/SV 7.62 series



Type	SV & SC 3.81
Orientation	90°/270°
Flange options	G/MF
Product code numbers	IEC: 100 V/38 A/0.5 - 10 mm² UL: 600 V/35 A/AWG 24 - 10
Page	I.8

Hybrid female connector	 Spring PUSH IN		BVF & BC 3.81	180°	(G)/MF	IEC: 1.000 V/41 A/0.2 - 10 mm² UL: 600 V/35 A/AWG 24 - 10	I.20	○ ●
Hybrid female connector	 Spring PUSH IN		BVF & BC 3.81*	180°	(G)/MF	IEC: 1.000 V/41 A/0.2 - 10 mm² UL: 600 V/35 A/AWG 24 - 10	I.22	○ ●

* shield support as accessories on K.3

Female plug and header:

(G) = Closed (without flange)

MF = Centre flange with clasp

Male header and plug:

G = Closed (without flange)

MF = Centre flange for clasp

MSF = middle flange with screw and latching hook

1



- Available with a middle flange (MF).

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm²			
Stranded H07 V-R				
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, max.	A	41	41	
At ambient temperature		20°C		40°C
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	630	630	1000
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG	-		
CSA (Use Group)		B	C	D
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG	-		
General data				
Type of insulation material			PA GF	
UL 94 flammability rating			V-0	
Contact base material			Cu-Leg	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.8 x 1.0	
Solder eyelet Ø = D	mm		1.3	
Solder eyelet Ø tolerance	mm		+ 0.1	

Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- 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.

The technical drawings show the following dimensions:

- Top View:** Total width is $L1 + P1 + O$. The distance from the centerline to the end flange is $O = L2 + 4.8$ and $O = L2 + 0.189$.
- Side View:** Total height is 28.3 (1.114"). The distance from the base to the centerline is 13.3 (0.524"). The total length is 19.8 (0.78").
- Front View:** Shows the motor frame with dimensions $P1$, $P2$, and $L1$. It also shows the mounting holes with diameters $\varnothing 1.3 \pm 0.1$ / $\varnothing 0.051"$ and $\varnothing 1.2 \pm 0.1$ / $\varnothing 0.047"$.

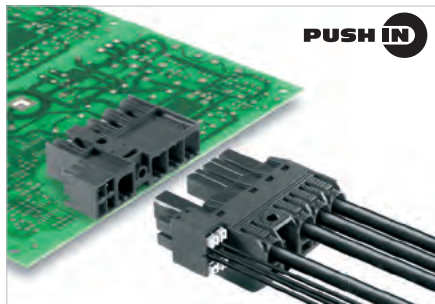
Note: Refer to the Accessories chapter for additional accessories

Coding	Order No.
BV/SV 7.62HP KO	1937590000
	

Soldier pin length						3.5 mm
Colour						Black
Pitch						7.62 mm
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
2 / 4	15.24	0.600	3.81	0.150	78	1089840000
2 / 6	15.24	0.600	7.62	0.300	66	1089920000
2 / 8	15.24	0.600	11.43	0.450	60	1157040000
3 / 4	22.86	0.900	3.81	0.150	60	1090040000
3 / 6	22.86	0.900	7.62	0.300	54	1090120000
3 / 8	22.86	0.900	11.43	0.450	48	1157050000
4 / 4	30.48	1.200	3.81	0.150	48	1090280000
4 / 6	30.48	1.200	7.62	0.300	42	1090360000
4 / 8	30.48	1.200	11.43	0.450	42	1157380000
5 / 4	38.10	1.500	3.81	0.150	36	1090520000
5 / 6	38.10	1.500	7.62	0.300	36	1090590000
5 / 8	38.10	1.500	11.43	0.450	36	1157080000

Connectors in 7.62 mm pitch Series BV/SV 7.62 - connection up to 6 mm²

SV 7.62HP/./90 & SC 3.81MF



Hybrid male header in 90° outlet direction with power and signal contacts. Meets the enhanced requirements of IEC 61800-5-1 for 3 mm touch safety in 400 V TNC (S) networks and enables UL approval for 600 V in accordance with UL 508 / UL 840. The middle flange interlocks automatically. It decreases the space required by one pole when compared to other solutions.

- Available with a middle flange (MF).

Product data

IEC: 1000 V / 41 A
UL: 300 V / 35 A



For additional articles and information, refer to catalog.weidmueller.com

Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- 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.
- MF and MSF: X= Position of the middle flange e.g. MF2, MSF3

SV 7.62HP/./90MF2. SC/./R



Dimensioned drawing

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm ²			
Stranded H07 V-R				
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, max.	A	41	41	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overtolerance category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	630	630	1000
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG			
CSA (Use Group)		B	C	D
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG			
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Cu-Leg		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000



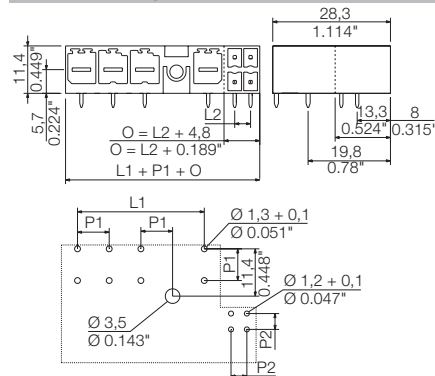
Ordering data

Solder pin length						3.5 mm
Colour						Black
Pitch 7.62 mm						
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
2 / 4	15.24	0.600	3.81	0.150	60	1089370000
2 / 6	15.24	0.600	7.62	0.300	54	1089410000
2 / 8	15.24	0.600	11.43	0.450	48	1156820000
3 / 4	22.86	0.900	3.81	0.150	48	1156230000
3 / 6	22.86	0.900	7.62	0.300	42	1156240000
3 / 8	22.86	0.900	11.43	0.450	36	1156840000

SV 7.62HP/.. /90MF4. SC/..R



Dimensioned drawing

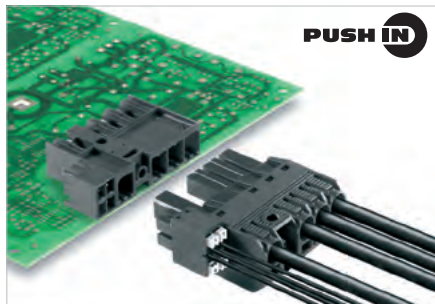


Ordering data

Solder pin length							3.5 mm
Colour							Black
Pitch 7.62 mm							
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.	
4 / 4	30.48	1.200	3.81	0.150	36	1090130000	
4 / 6	30.48	1.200	7.62	0.300	36	1090210000	
4 / 8	30.48	1.200	11.43	0.450	30	1156890000	
5 / 4	38.10	1.500	3.81	0.150	30	1090600000	
5 / 6	38.10	1.500	7.62	0.300	30	1090670000	
5 / 8	38.10	1.500	11.43	0.450	30	1156890000	

Connectors in 7.62 mm pitch Series BV/SV 7.62 - connection up to 6 mm²

SV 7.62HP/./90 & SC 3.81MSF



Hybrid male header in 90° outlet direction with power and signal contacts. Meets the enhanced requirements of IEC 61800-5-1 for 3 mm touch safety in 400 V TNC (S) networks and enables UL approval for 600 V in accordance with UL 508 / UL 840. The middle flange interlocks automatically. It decreases the space required by one pole when compared to other solutions.

- Available with a middle flange (MF).

Product data

IEC: 1000 V / 41 A
UL: 300 V / 35 A



For additional articles and information, refer to catalog.weidmueller.com

Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- 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.
- MF and MSF: X= Position of the middle flange e.g. MF2, MSF3

SV 7.62HP/./90MSF2. SC/..R



Dimensioned drawing

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm ²			
Stranded H07 V-R				
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, max.	A	41	41	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overtolerance category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	630	630	1000
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG			
CSA (Use Group)		B	C	D
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG	-	-	-
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Cu-Leg		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000



Ordering data

Solder pin length							3.5 mm
Colour							Black
Pitch 7.62 mm							
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.	
2 / 4	15.24	0.600	3.81	0.150	60	1089510000	
2 / 6	15.24	0.600	7.62	0.300	54	1089570000	
2 / 8	15.24	0.600	11.43	0.450	48	1156830000	
3 / 4	22.86	0.900	3.81	0.150	48	1156250000	
3 / 6	22.86	0.900	7.62	0.300	42	1156270000	
3 / 8	22.86	0.900	11.43	0.450	36	1156870000	

SV 7.62HP../90MSF3. SC/..R

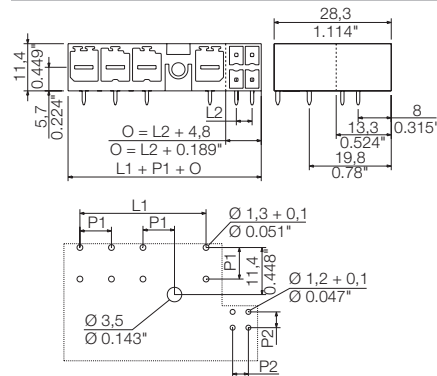


Dimensioned drawing

SV 7.62HP../90MSF4. SC/..R



Dimensioned drawing



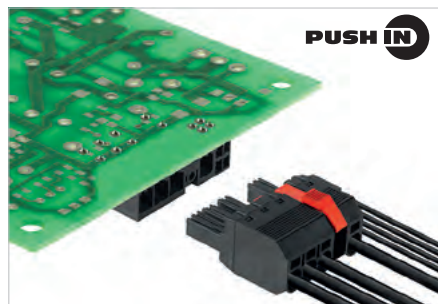
Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Poles	L1 (inch)	L2 (inch)	Qty.
3 / 4	22.86	0.900	48
3 / 6	22.86	0.900	42
3 / 8	22.86	0.900	36
5 / 4	38.10	1.500	30
5 / 6	38.10	1.500	30
5 / 8	38.10	1.500	30

Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Poles	L1 (inch)	L2 (inch)	Qty.
4 / 4	30.48	1.200	36
4 / 6	30.48	1.200	36
4 / 8	30.48	1.200	30
5 / 4	38.10	1.500	30
5 / 6	38.10	1.500	30
5 / 8	38.10	1.500	30

SV 7.62HP../270 & SC 3.81



Hybrid male header in 270° outlet direction with power and signal contacts. Meets the enhanced requirements of IEC 61800-5-1 for 3 mm touch safety in 400 V TNC (S) networks and enables UL approval for 600 V in line with UL 508 / UL 840. The middle flange interlocks automatically. It decreases the space required by one pole when compared to other solutions.

- Available with a middle flange (MF).

Product data

IEC: 1000 V / 41 A

UL: 300 V / 35 A



For additional articles and information, refer to catalog.weidmueller.com

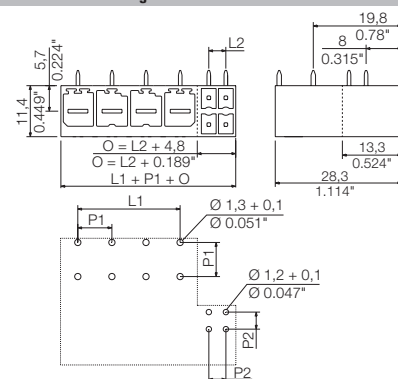
Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- 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.

SV 7.62HP../270 SC../R



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm ²			
Stranded H07 V-R				
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, max.	A	41	41	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	630	630	1000
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG			
CSA (Use Group)		B	C	D
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG			
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Cu-Leg		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

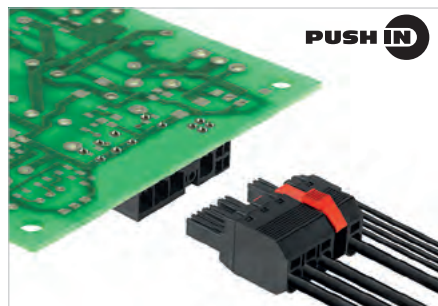
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000

Ordering data

Solder pin length						3.5 mm
Colour						Black
Pitch		7.62 mm				
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
2 / 4	15.24	0.600	3.81	0.150	78	1090770000
2 / 6	15.24	0.600	7.62	0.300	66	1090850000
2 / 8	15.24	0.600	11.43	0.450	60	1156920000
3 / 4	22.86	0.900	3.81	0.150	60	1090950000
3 / 6	22.86	0.900	7.62	0.300	54	1091010000
3 / 8	22.86	0.900	11.43	0.450	48	1156940000
4 / 4	30.48	1.200	3.81	0.150	48	1091120000
4 / 6	30.48	1.200	7.62	0.300	42	1091160000
4 / 8	30.48	1.200	11.43	0.450	42	1156970000
5 / 4	38.10	1.500	3.81	0.150	36	1091240000
5 / 6	38.10	1.500	7.62	0.300	36	1091260000
5 / 8	38.10	1.500	11.43	0.450	36	1156990000

SV 7.62HP/./270 & SC 3.81MF



Hybrid male header in 270° outlet direction with power and signal contacts. Meets the enhanced requirements of IEC 61800-5-1 for 3 mm touch safety in 400 V TNC (S) networks and enables UL approval for 600 V in line with UL 508 / UL 840. The middle flange interlocks automatically. It decreases the space required by one pole when compared to other solutions.

- Available with a middle flange (MF).

Product data

IEC: 1000 V / 41 A

UL: 300 V / 35 A



For additional articles and information, refer to catalog.weidmueller.com

Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SV 7.62HP/./270MF2. SC/..R



Dimensioned drawing

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm ²			
Stranded H07 V-R				
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, max.	A	41	41	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overtolerance category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	630	630	1000
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG			
CSA (Use Group)		B	C	D
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG			
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Cu-Leg		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000



Ordering data

Solder pin length						3.5 mm
Colour						Black
Pitch 7.62 mm						
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
2 / 4	15.24	0.600	3.81	0.150	60	1089260000
2 / 6	15.24	0.600	7.62	0.300	54	1089280000
2 / 8	15.24	0.600	11.43	0.450	48	1156120000
3 / 4	22.86	0.900	3.81	0.150	48	1156140000
3 / 6	22.86	0.900	7.62	0.300	42	1156150000
3 / 8	22.86	0.900	11.43	0.450	36	1156170000

SV 7.62HP../270MF3. SC/..R

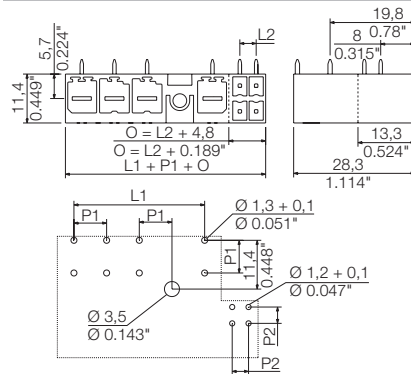


Dimensioned drawing

SV 7.62HP../270MF4. SC/..R



Dimensioned drawing



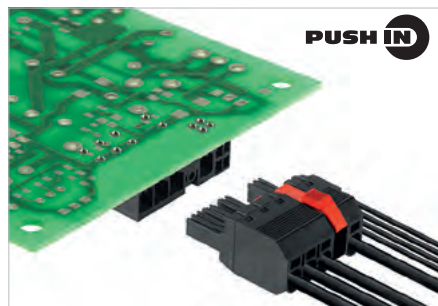
Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Poles	L1 (inch)	L2 (inch)	Qty. Order No.
3 / 4	22.86	0.900	3.81 0.150 48 1089440000
3 / 6	22.86	0.900	7.62 0.300 42 1089490000
3 / 8	22.86	0.900	11.43 0.450 36 1156180000
5 / 4	38.10	1.500	3.81 0.150 30 1156300000
5 / 6	38.10	1.500	7.62 0.300 30 1156310000
5 / 8	38.10	1.500	11.43 0.450 30 1156320000

Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Poles	L1 (inch)	L2 (inch)	Qty. Order No.
4 / 4	30.48	1.200	3.81 0.150 36 1089820000
4 / 6	30.48	1.200	7.62 0.300 36 1089910000
4 / 8	30.48	1.200	11.43 0.450 30 1156280000
5 / 4	38.10	1.500	3.81 0.150 30 1090300000
5 / 6	38.10	1.500	7.62 0.300 30 1090380000
5 / 8	38.10	1.500	11.43 0.450 30 1156340000

SV 7.62HP/./270 & SC 3.81MSF



Hybrid male header in 270° outlet direction with power and signal contacts. Meets the enhanced requirements of IEC 61800-5-1 for 3 mm touch safety in 400 V TNC (S) networks and enables UL approval for 600 V in line with UL 508 / UL 840. The middle flange interlocks automatically. It decreases the space required by one pole when compared to other solutions.

- Available with a middle flange (MF).

Product data

IEC: 1000 V / 41 A

UL: 300 V / 35 A



For additional articles and information, refer to catalog.weidmueller.com

Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SV 7.62HP/./270MSF2. SC/..R



Dimensioned drawing

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm ²			
Stranded H07 V-R				
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, max.	A	41	41	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overtolerance category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	630	630	1000
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG		-	
CSA (Use Group)		B	C	D
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Cu-Leg		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000



Ordering data

Solder pin length						3.5 mm
Colour						Black
Pitch 7.62 mm						
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
2 / 4	15.24	0.600	3.81	0.150	60	1089340000
2 / 6	15.24	0.600	7.62	0.300	54	1089380000
2 / 8	15.24	0.600	11.43	0.450	48	1156130000
3 / 4	22.86	0.900	3.81	0.150	48	1156190000
3 / 6	22.86	0.900	7.62	0.300	42	1156200000
3 / 8	22.86	0.900	11.43	0.450	36	1156210000

SV 7.62HP../270MSF3. SC/..R

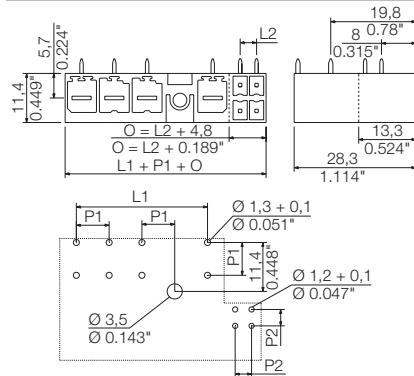


Dimensioned drawing

SV 7.62HP../270MSF4. SC/..R



Dimensioned drawing



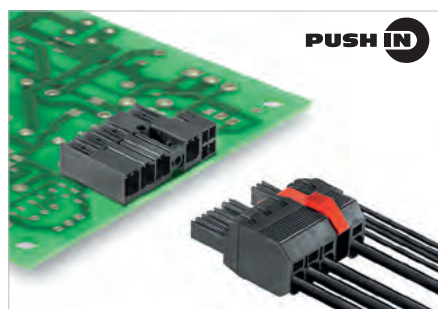
Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Poles	L1 (inch)	L2 (inch)	Qty.
3 / 4	22.86	0.900	3.81
3 / 6	22.86	0.900	7.62
3 / 8	22.86	0.900	11.43
5 / 4	38.10	1.500	3.81
5 / 6	38.10	1.500	7.62
5 / 8	38.10	1.500	11.43

Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Poles	L1 (inch)	L2 (inch)	Qty.
4 / 4	30.48	1.200	3.81
4 / 6	30.48	1.200	7.62
4 / 8	30.48	1.200	11.43
5 / 4	38.10	1.500	3.81
5 / 6	38.10	1.500	7.62
5 / 8	38.10	1.500	11.43

PUSH IN



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...10	
Solid core H05(07) V-U	mm²	0.5...10	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...10	
Flexible with ferrule	mm ²	1.5...6	
Ferrule with plastic collar	mm ²	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
According to norm		DIN 5264	
Tightening torque range	Nm		
Rated current, max.	A	38	34
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-8	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Note:

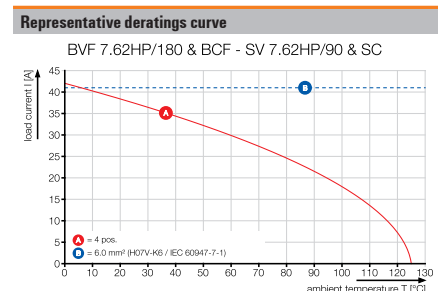
- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- 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.



Note: Refer to the Accessories chapter for additional accessories

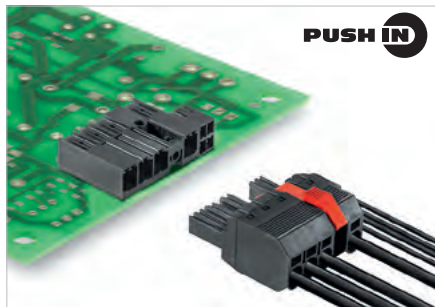
Note: Refer to the Accessories chapter for additional accessories.		
Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Screwdriver		
	SDS 0.8X4.0X125	9009020000
Crimping tool		
	PZ 6/5	9011460000

Solder pin length							
Colour							Black
Pitch		7.62 mm					
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.	
2 / 4	7.62	0.300	3.81	0.150	65	1080550000	
2 / 6	7.62	0.300	7.62	0.300	55	1080320000	
2 / 8	7.62	0.300	11.43	0.450	50	1156440000	
3 / 4	15.24	0.600	3.81	0.150	50	1080490000	
3 / 6	15.24	0.600	7.62	0.300	45	1080570000	
3 / 8	15.24	0.600	11.43	0.450	40	1156450000	
4 / 4	22.86	0.900	3.81	0.150	40	1080510000	
4 / 6	22.86	0.900	7.62	0.300	35	1080440000	
4 / 8	22.86	0.900	11.43	0.450	30	1156470000	
5 / 8	30.48	1.200	11.43	0.450	25	1156480000	



Connectors in 7.62 mm pitch Series BV/SV 7.62 - connection up to 6 mm²

BVF 7.62HP../180MF & BCF 3.81



Hybrid female plug with power and signal contacts with "PUSH IN" connection system. Allows power, signals and shield to be plugged in simultaneously. It is perfect for connecting servo-drives and asynchronous drives. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1. The self-fastening middle flange reduces the space requirements by one pole.

The pluggable shield connection establishes a large contact area on the device housing and does not need to be screwed on separately.

Product data

IEC: 1000 V / 38 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmueller.com

Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

BVF 7.62HP../180MF2. BCF../R



Dimensioned drawing

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.5...10
Solid core H05(07) V-U	mm ²	0.5...10
Stranded H07 V-R		
Flexible H05(07) V-K	mm ²	0.5...10
Flexible with ferrule	mm ²	1.5...6
Ferrule with plastic collar	mm ²	1.5...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264
Tightening torque range	Nm	
Rated current, max.	A	38 34
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	6
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	800 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)	B C D	

Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-8

CSA (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-8

General data

Type of insulation material	PA GF
UL 94 flammability rating	V-0
Contact base material	Cu-Leg
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

Accessories

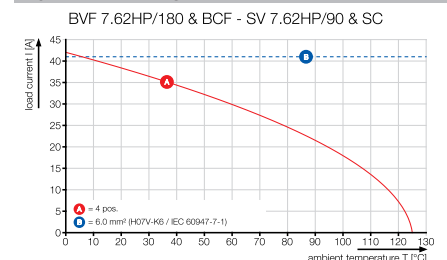
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Shielding	
BVF 7.62HP SH150 4-6 KIT	1118480000
BVF 7.62HP SH180 4-6 KIT	1118470000
BVF 7.62HP SH210 4-6 KIT	1118490000
Screwdriver	
SDS 0.8x4.0x125	9009020000
Crimping tool	
PZ 6/5	9011460000

Ordering data

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
2 / 4	15.24	0.600	3.81	0.150	50	1081610000
2 / 6	15.24	0.600	7.62	0.300	45	1081030000
2 / 8	15.24	0.600	11.43	0.450	40	1157090000
3 / 4	22.86	0.900	3.81	0.150	40	1157110000
3 / 6	22.86	0.900	7.62	0.300	35	1157120000
3 / 8	22.86	0.900	11.43	0.450	30	1157130000

Representative deratings curve



BVF 7.62HP../180MF3. BCF../R

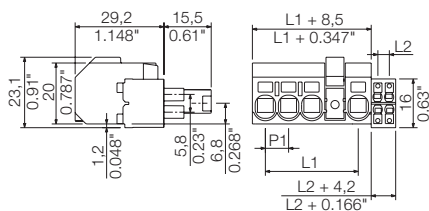


Dimensioned drawing

BVF 7.62HP../180MF4. BCF../R



Dimensioned drawing



Ordering data

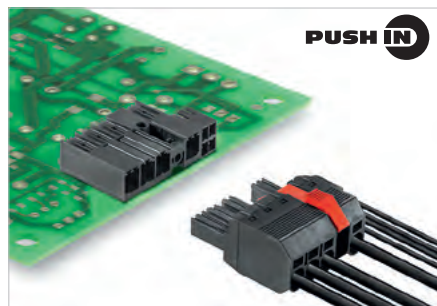
Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
3 / 4	22.86	0.900	3.81	0.150	40	1081630000
3 / 6	22.86	0.900	7.62	0.300	35	1081720000
3 / 8	22.86	0.900	11.43	0.450	30	1157170000
5 / 4	38.10	1.500	3.81	0.150	25	1157220000
5 / 6	38.10	1.500	7.62	0.300	25	1157230000
5 / 8	38.10	1.500	11.43	0.450	25	1157240000

Ordering data

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
4 / 4	30.48	1.200	3.81	0.150	30	1081150000
4 / 6	30.48	1.200	7.62	0.300	30	1082020000
4 / 8	30.48	1.200	11.43	0.450	25	1157200000
5 / 4	38.10	1.500	3.81	0.150	25	1082140000
5 / 6	38.10	1.500	7.62	0.300	25	1081760000
5 / 8	38.10	1.500	11.43	0.450	25	1157250000

Connectors in 7.62 mm pitch Series BV/SV 7.62 - connection up to 6 mm²

BVF 7.62HP/./180MSF & BCF 3.81



Hybrid female plug with power and signal contacts with "PUSH IN" connection system. Allows power, signals and shield to be plugged in simultaneously. It is perfect for connecting servo-drives and asynchronous drives. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1. The self-fastening middle flange reduces the space requirements by one pole.

The pluggable shield connection establishes a large contact area on the device housing and does not need to be screwed on separately.

Product data

IEC: 1000 V / 38 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmueller.com

Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

BVF 7.62HP/./180MSF2. BCF/..R



Dimensioned drawing

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.5...10
Solid core H05(07) V-U	mm ²	0.5...10
Stranded H07 V-R		
Flexible H05(07) V-K	mm ²	0.5...10
Flexible with ferrule	mm ²	1.5...6
Ferrule with plastic collar	mm ²	1.5...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264
Tightening torque range	Nm	
Rated current, max.	A	38 34
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	6
Overtightening category	III	III II
Pollution severity	3	2 2
Rated voltage	V	800 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)	B C D	

Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-8

CSA (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-8

General data

Type of insulation material	PA GF
UL 94 flammability rating	V-0
Contact base material	Cu-Leg
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

Accessories

Note: Refer to the Accessories chapter for additional accessories.

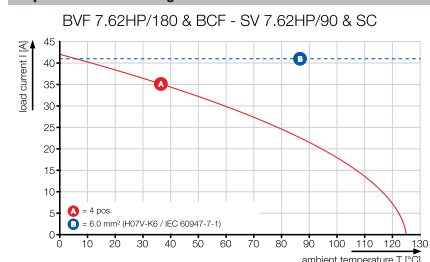
Coding	Order No.
BV/SV 7.62HP K0	1937590000
Shielding	
BVF 7.62HP SH150 4-6 KIT	1118480000
BVF 7.62HP SH180 4-6 KIT	1118470000
BVF 7.62HP SH210 4-6 KIT	1118490000
Screwdriver	
SDS 0.8X4.0X125	9009020000
Crimping tool	
PZ 6/5	9011460000

Ordering data

Solder pin length

Colour						Black
Pitch		7.62 mm				
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
2 / 4	15.24	0.600	3.81	0.150	50	1081930000
2 / 6	15.24	0.600	7.62	0.300	45	1082080000
2 / 8	15.24	0.600	11.43	0.450	40	1157100000
3 / 4	22.86	0.900	3.81	0.150	40	1157440000
3 / 6	22.86	0.900	7.62	0.300	35	1157450000
3 / 8	22.86	0.900	11.43	0.450	30	1157470000

Representative deratings curve



BVF 7.62HP../180MSF3. BCF../R

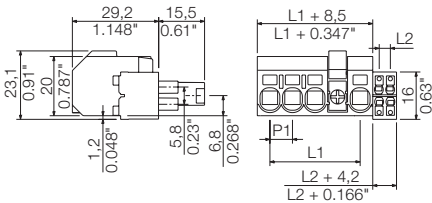


Dimensioned drawing

BVF 7.62HP../180MSF4. BCF../R



Dimensioned drawing



Ordering data

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
3 / 4	22.86	0.900	3.81	0.150	40	1082110000
3 / 6	22.86	0.900	7.62	0.300	35	1081730000
3 / 8	22.86	0.900	11.43	0.450	30	1157190000
5 / 4	38.10	1.500	3.81	0.150	25	1157270000
5 / 6	38.10	1.500	7.62	0.300	25	1157280000
5 / 8	38.10	1.500	11.43	0.450	25	1157290000

Ordering data

Solder pin length						
Colour						Black
Pitch 7.62 mm						
Poles	L1	(inch)	L2	(inch)	Qty.	Order No.
4 / 4	30.48	1.200	3.81	0.150	30	1081660000
4 / 6	30.48	1.200	7.62	0.300	30	1081750000
4 / 8	30.48	1.200	11.43	0.450	25	1157210000
5 / 4	38.10	1.500	3.81	0.150	25	1080940000
5 / 6	38.10	1.500	7.62	0.300	25	1080720000
5 / 8	38.10	1.500	11.43	0.450	25	1157300000

OMNIMATE Power for IT systems – scalable up to 50 kVA

Custom-fit solutions for special requirements

Increased compliance with standards and fewer compromises:
OMNIMATE Power for IT systems establishes a new level of excellence with its standard integrated details. These attributes streamline the design-in and approval processes and result in safer operations.

Results for the application and advantages for the user: unlimited use in 400-V IT systems and touch safety according to IEC 61800-5-1 (+ 5 mm). The self-snapping one-handed safety flange enables intuitive and safe usage. Operational reliability is guaranteed by the automatic interlock feature during the plug-in process. The application-oriented design means that no compromises are necessary during the approval process.

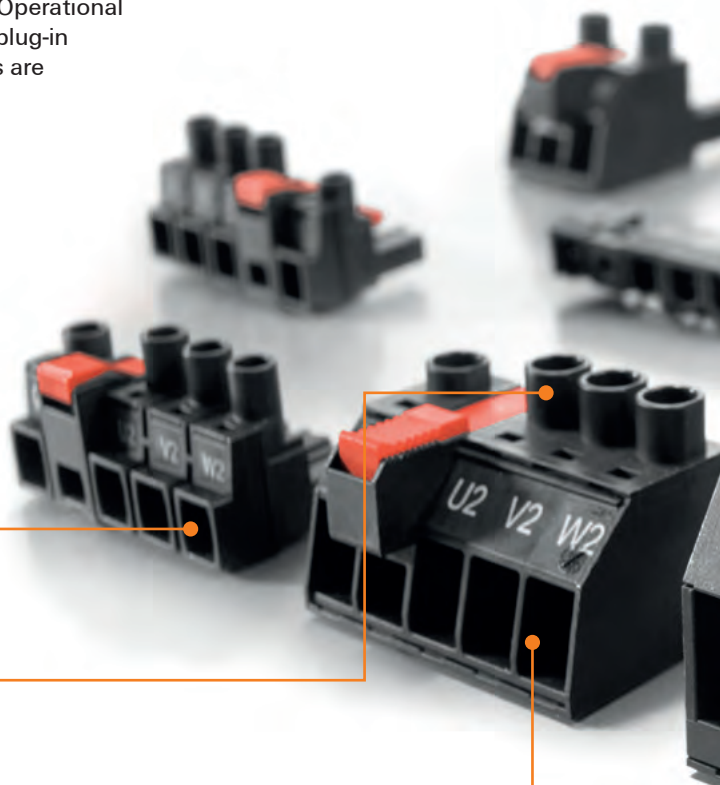
Uncompromised scalability

As much power as required, as little cost as needed: a device series for every power level and power type: scalable from 25 A/2.5 mm² to 41 A/6 mm² to 76 A/16 mm².



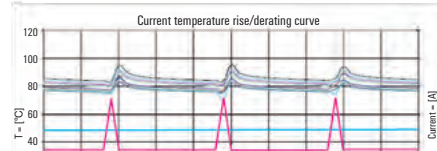
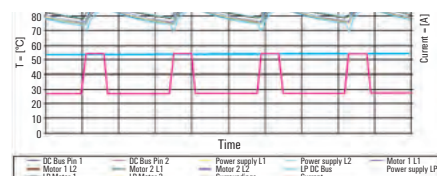
IEC 61800-5-1 approval

No additional measures or compromises in the system suitable, touch-safe certification according to IEC 61800-5-1:
 + 3.0 mm for 400 V TN systems,
 + 5.5 mm for 400 V IT networks.



Uncompromised power capabilities

Uncompromised means high power reserves for superior overload capacity even under the high ambient temperatures of real-world applications.

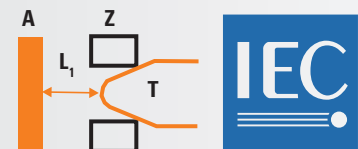


Uncompromised safety

Details such as insulated contact tips that ensure the pin header is touch-safe and automatic snap-in for a secure interlocking connection.

**Finger safety according to DIN EN 61800-5-1**

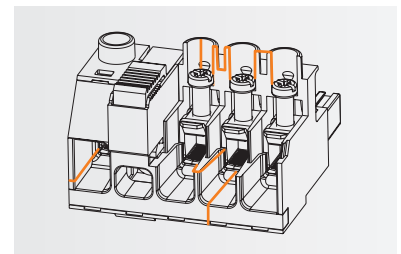
Since the end of 2007, device approval according to IEC Directive "Adjustable speed electrical power drive systems – Part 5-1: Safety requirements" requires that – regardless of the line-to-earth voltage – an additional finger safety interval exists (for example, + 3 mm for 400 V-TN systems (wire-to-earth voltage = 230 V), or + 5.5 mm for 400-V IT systems (wire-to-earth voltage up to 400 V in event of error)). An additional cover is required if the connection system, as a device section, does not fulfil these requirements. The OMNIMATE Power HP product line already complies with the stricter IEC requirements for additional touch protection.



IEC 61800-5-1:2007

Clearance and creepage distances, acc. to UL

A 600-V connector must have the approval of the UL 1059 component directive – but the potential installation situations must first be taken into consideration. This allows you to avoid making approval compromises – such as UL 508C or incorporating complex additions such as coatings or protective hoods. The OMNIMATE Power HP product line already complies with the UL requirements for 600-V creepage and clearance distances.

**UL approval without compromise**

No limitation for UL approval with 600-V applications: with optimised creepage and clearance distance even under difficult installation situations.

600 V



<http://www.OMNIMATE.net>

○ = Wire-to-Board

● = Board-to-Board

● = Wire-to-Wire

● = Board-to-Wire

Orientation

For IT networks

Female plug

Screw
Clamping
yoke

	BLZ	180°	MF2	IEC: 630 V/24 A/0.08 - 4 mm² UL: 300 V/20 A/AWG 28 - 12	I.32
	BLZ	180°	MF3	IEC: 630 V/24 A/0.08 - 4 mm² UL: 300 V/20 A/AWG 28 - 12	I.33
	BLZ	180°	MF4	IEC: 630 V/24 A/0.08 - 4 mm² UL: 300 V/20 A/AWG 28 - 12	I.33
	BVZ	180°	MF2	IEC: 1.000 V/41 A/0.2 - 6 mm² UL: 300 V/35 A/AWG 24 - 10	I.38
	BVZ	180°	MF3	IEC: 1.000 V/41 A/0.2 - 6 mm² UL: 300 V/35 A/AWG 24 - 10	I.39
	BVZ	180°	MF4	IEC: 1.000 V/41 A/0.2 - 6 mm² UL: 300 V/35 A/AWG 24 - 10	I.39
	BUZ	180°	MF2	IEC: 1.000 V/76 A/0.2 - 16 mm² UL: 300 V/54 A/AWG 22 - 6	I.44
	BUZ	180°	MF3	IEC: 1.000 V/76 A/0.2 - 16 mm² UL: 300 V/54 A/AWG 22 - 6	I.45
	BUZ	180°	MF4	IEC: 1.000 V/76 A/0.2 - 16 mm² UL: 300 V/54 A/AWG 22 - 6	I.45

MF2 = Centre snap flange at position 2
MF3 = Centre snap flange at position 3
MF4 = Centre snap flange at position 4

Pitch 7.62 mm

Type	SL	SL	
Orientation	90°	90°	
Flange options	MF2	MF3	
Product code numbers	IEC: 630 V/24 A UL: 300 V/20 A	IEC: 630 V/24 A UL: 300 V/20 A	
Page	I.30	I.31	

I.28 Weidmüller

1460680000 - 2014/2015

Male header



Solder connection

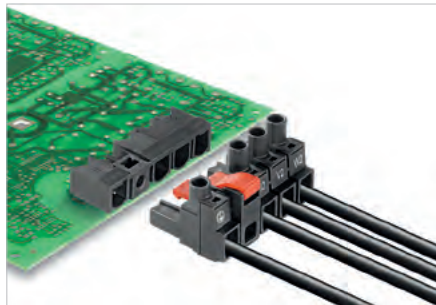
Pitch 7.62 mm

Pitch 10.16 mm



	SL	SV	SV	SV	SU	SU	SU
	90°	90° / 270°	90° / 270°	90° / 270°	90° / 270°	90° / 270°	90° / 270°
	MF4	MF2	MF3	MF4	MF2	MF3	MF4
	IEC: 630 V/24 A UL: 300 V/20 A	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/76 A UL: 300 V/54 A	IEC: 1.000 V/76 A UL: 300 V/54 A	IEC: 1.000 V/76 A UL: 300 V/54 A
	I.31	I.34	I.35	I.35	I.40	I.41	I.41
	○ ●						
		○ ●					
			○ ●				
				○ ●			
					○ ●		
						○ ●	
							○ ●

SL 7.62IT/./90MF



Male header available in 90° outlet direction with a leading PE contact for IT networks. UL approval according to UL 840 (600 V). Used together with the BLZ 7.62 IT female plug. It complies with the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1. When no female plug is present, the mating profile ensures at least 1 mm of finger protection with a test finger pressure of 20N.

The middle flange interlock feature decreases the space required by one pole when compared to other solutions.

Available on request with screw flange mounting block or without flange.

Product data

IEC: 630 V / 29 A

UL: 300 V / 20 A



For additional articles and information, refer to catalog.weidmueller.com

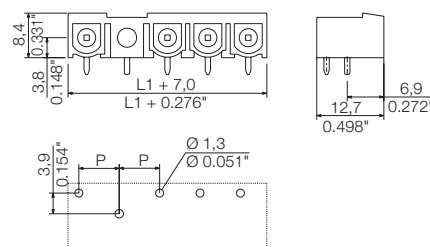
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SL 7.62IT/./90MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm ²		
Stranded H07 V-R			
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, max.	A	29	25
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III
Pollution severity		3	2
Rated voltage	V	400	500
Rated impulse voltage	kV	6	6
UL / CUL (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	20	20
AWG conductor	AWG	-	5
CSA (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	20	20
AWG conductor	AWG	-	5
General data			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO BK BX	1545710000
	BLZ/SL KO OR BX	1573010000

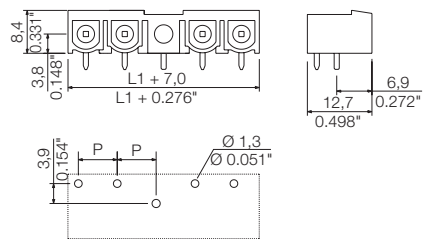
Ordering data

Solder pin length		3.2 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	100	1173610000
3	22.86	0.900	100	1173640000
4	30.48	1.200	100	1173730000

SL 7.62IT/./90MF3



Dimensioned drawing



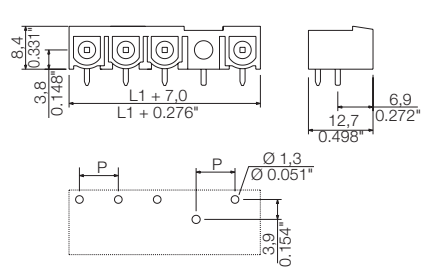
Ordering data

Solder pin length		3.2 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
3	22.86	0.900	100 1173690000

SL 7.62IT/./90MF4



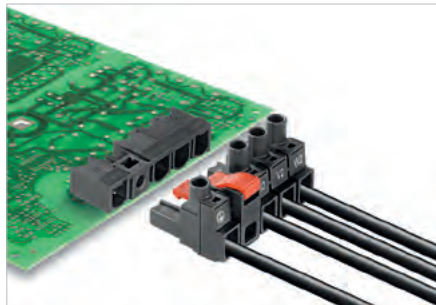
Dimensioned drawing



Ordering data

Solder pin length		3.2 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty. Order No.
4	30.48	1.200	100 1173770000

BLZ 7.62IT../180MF



Female plug in 180° outlet direction for IT networks.
Fulfills the requirements of UL 1059

600 V Class C. With a leading PE contact when used
with SL 7.62 IT male header.

Fulfills the expanded requirements for 5.5 mm of touch
protection (400 V relative to earth), according to
IEC 61800-5-1.

The middle flange interlocks automatically and is
optionally available with screw connection. It decreases
the space required by one pole when compared to other
solutions.

Available optionally without middle flange interlock.

Product data

IEC: 630 V / 29 A / 0.08 - 4 mm²

UL: 600 V / 20 A / AWG 20 - 12



For additional articles and information, refer to
catalog.weidmueller.com

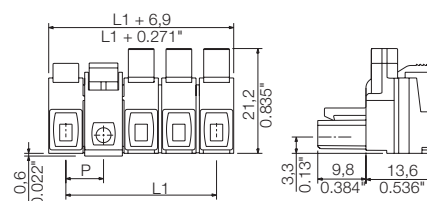
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

BLZ 7.62IT../180MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.08...4
Solid core H05(07) V-U	mm ²	0.08...4
Stranded H07 V-R		
Flexible H05(07) V-K	mm ²	0.08...4
Flexible with ferrule	mm ²	0.2...2.5
Ferrule with plastic collar	mm ²	0.2...2.5
Stripping length	mm	7
Screwdriver blade	mm	0.6 x 3.5
According to norm		DIN 5264
Tightening torque range	Nm	0.4...0.5

Rated current, max.

At ambient temperature

For conductor cross-section

Overvoltage category

Pollution severity

Rated voltage

Rated impulse voltage

UL / CUL (Use Group)

Rated voltage

Rated current

AWG conductor

CSA (Use Group)

Rated voltage

Rated current

AWG conductor

General data

Type of insulation material

UL 94 flammability rating

Contact base material

Material of contact surface

Pin dimensions = d

Solder eyelet Ø = D

Solder eyelet Ø tolerance

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BLZ/SL KO BK BX	1545710000
BLZ/SL KO OR BX	1573010000
Screwdriver	
SDIS 0.6X3.5X100	9008390000
SDS 0.6X3.5X100	9008330000

Ordering data

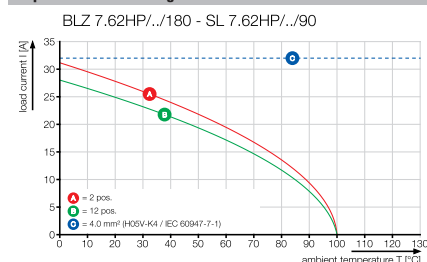
Solder pin length

Colour **Black**

Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	70	1173490000
3	22.86	0.900	50	1173500000
4	30.48	1.200	40	1173520000

Representative deratings curve

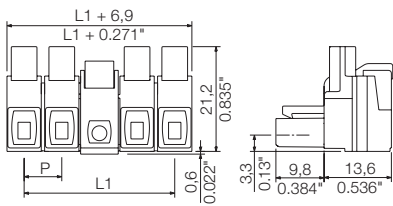


BLZ 7.62IT../180MF3

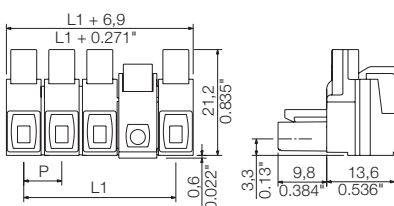
BLZ 7.62IT../180MF4



Dimensioned drawing



Dimensioned drawing



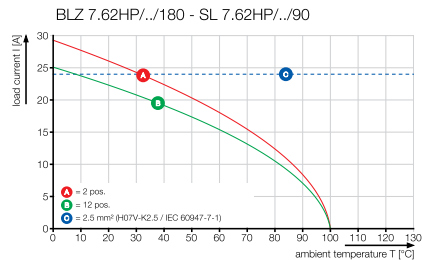
Ordering data

Solder pin length				
Colour				Black
Pitch 7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.
3	22.86	0.900	50	1173510000

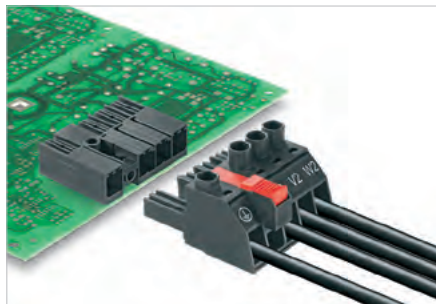
Ordering data

Solder pin length				
Colour				Black
Pitch 7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	40	1173530000

Additional deratings curves



SV 7.62IT../90MF



Male header in 90° outlet direction with a leading PE contact for IT networks. UL approval according to UL 840 for 600 V. Used together with a BVZ 7.62 IT female plug. It complies with the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1. When no female plug is present, the mating profile ensures at least 1 mm of finger protection with a test finger pressure of 20N.

The middle flange interlock feature decreases the space required by one pole when compared to other solutions.

Available on request with screw flange mounting block or without flange.

Product data

IEC: 1000 V / 41 A
UL: 300 V / 40.5 A



For additional articles and information, refer to catalog.weidmueller.com

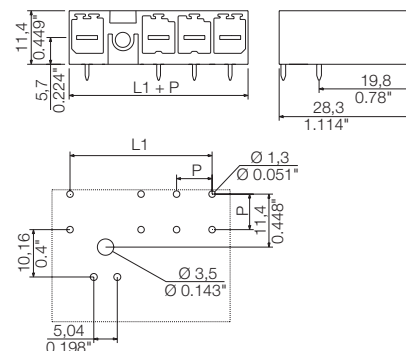
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SV 7.62IT../90MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm ²		
Stranded H07 V-R			
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, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III
Pollution severity		3	2
Rated voltage	V	630	630
Rated impulse voltage	kV	6	6
UL / CUL (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	40.5	40.5
AWG conductor	AWG	-	-
CSA (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	35	35
AWG conductor	AWG	-	-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000
Mounting foot	
BV/SV7.62HP MOFU GR	1937600000

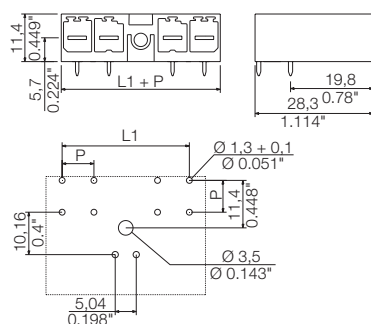
Ordering data

Solder pin length			3.5 mm	
Colour			Black	
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	78	1156540000
3	22.86	0.900	60	1156550000
4	30.48	1.200	48	1156580000

SV 7.62IT../90MF3



Dimensioned drawing



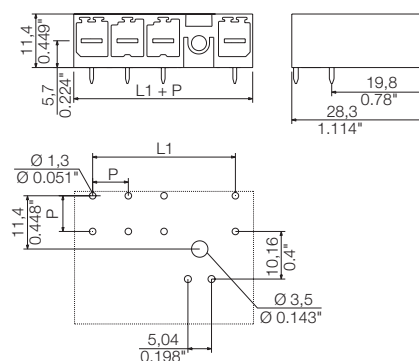
Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty.
3	22.86	0.900	60
		Order No. 1156570000	

SV 7.62IT../90MF4



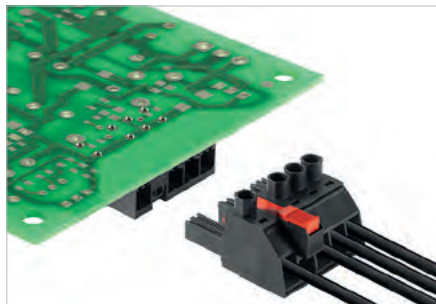
Dimensioned drawing



Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty.
4	30.48	1.200	48
		Order No. 1156590000	

SV 7.62IT/./270MF



Male header in 270° outlet direction with a leading PE contact for IT networks. UL approval according to UL 840 for 600 V. Used together with a BLZ 7.62 IT female plug, it complies with the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1. When no female header is present, the mating profile ensures at least 1 mm of finger protection with a test finger pressure of 20 N.

The middle flange interlock feature decreases the space required by one pole when compared to other solutions.

Available on request with screw flange mounting block or without flange.

Product data

IEC: 1000 V / 41 A
UL: 300 V / 40.5 A



For additional articles and information, refer to catalog.weidmueller.com

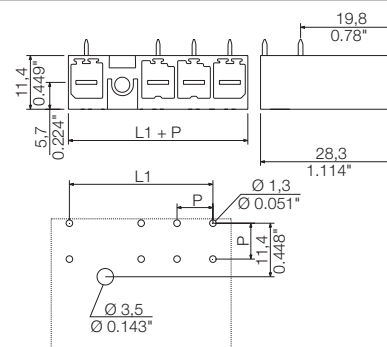
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SV 7.62IT/./270MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	
Solid core H05(07) V-U	mm ²	
Stranded H07 V-R		
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, max.	A	41 41
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	
Overtolerance category		III III II
Pollution severity		3 2 2
Rated voltage	V	630 630 1000
Rated impulse voltage	kV	6 6 6
UL / CUL (Use Group)	B C D	

Rated voltage	V	300 300 600
Rated current	A	40.5 40.5 5
AWG conductor	AWG	-
CSA (Use Group)	B C D	

Rated voltage	V	300 300 600
Rated current	A	35 35 5
AWG conductor	AWG	-

General data

Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		tinned
Pin dimensions = d	mm	0.8 x 1.0
Solder eyelet Ø = D	mm	1.3
Solder eyelet Ø tolerance	mm	+ 0,1

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000
Mounting foot	
BV/SV7.62HP MOFU GR	1937600000

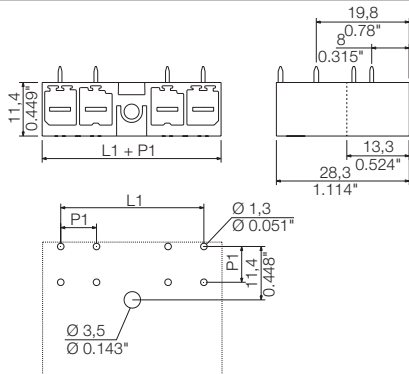
Ordering data

Solder pin length			3.5 mm	
Colour			Black	
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	78	1156490000
3	22.86	0.900	60	1156500000
4	30.48	1.200	48	1156520000

SV 7.62IT/./270MF3



Dimensioned drawing



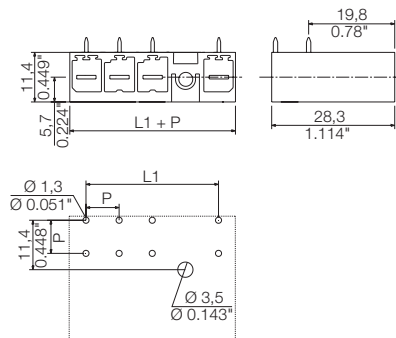
Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty.
3	22.86	0.900	60
		Order No. 1156510000	

SV 7.62IT/./270MF4



Dimensioned drawing

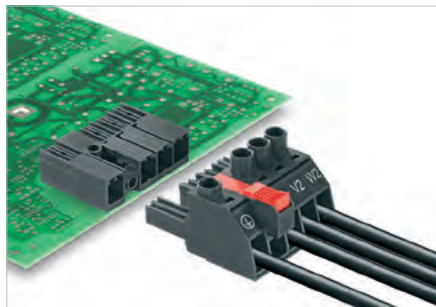


Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Qty.
4	30.48	1.200	48
		Order No. 1156530000	

Connectors for IT systems in 7.62 mm pitch Series BV/SV 7.62 IT - connection up to 6 mm²

BVZ 7.62IT../180MF



Female plug in 180° outlet direction for IT networks. Fulfils the requirements of UL 1059 for 600 V Use Group C. With leading PE contact when used with SV 7.62 IT male header. Fulfils the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1.

The middle flange interlocks automatically and is optionally available with screw connection. It decreases the space required by one pole when compared to other solutions.

Available optionally without middle flange interlock.

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 40.5 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmueller.com

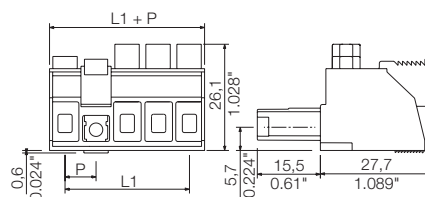
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

BVZ 7.62IT../180MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.2...6
Solid core H05(07) V-U	mm ²	0.2...6
Stranded H07 V-R		
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...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264
Tightening torque range	Nm	0.5...0.6
Rated current, max.	A	41 41
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	6
Overvoltage category	III	III II
Pollution severity	3	2 2
Rated voltage	V	800 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)	B C D	

Rated voltage	V	600 600 600
Rated current	A	40.5 40.5 5
AWG conductor	AWG	24-8
CSA (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-10

General data

Type of insulation material	PA GF
UL 94 flammability rating	V-0
Contact base material	Cu-Leg
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

Accessories

Note: Refer to the Accessories chapter for additional accessories.

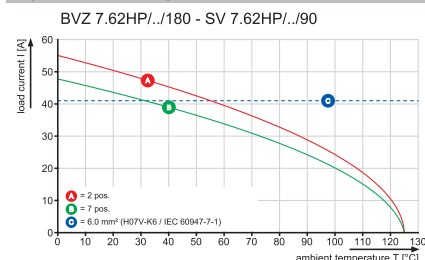
Coding	Order No.
BV/SV 7.62HP K0	1937590000
Strain relief	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver	
SDS 0.8X4.0X125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

Ordering data

Solder pin length

Colour			Black	
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	52	1156710000
3	22.86	0.900	40	1156720000
4	30.48	1.200	32	1156740000

Representative deratings curve



BVZ 7.62IT../180MF3

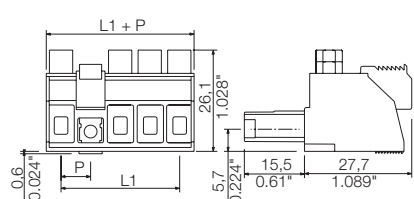
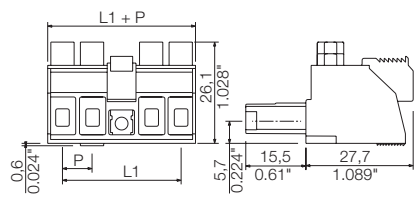
BVZ 7.62IT../180MF4



Dimensioned drawing



Dimensioned drawing



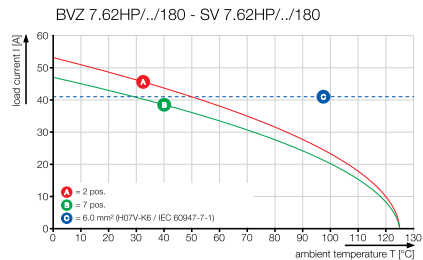
Ordering data

Solder pin length				
Colour				Black
Pitch 7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.
3	22.86	0.900	40	1156730000

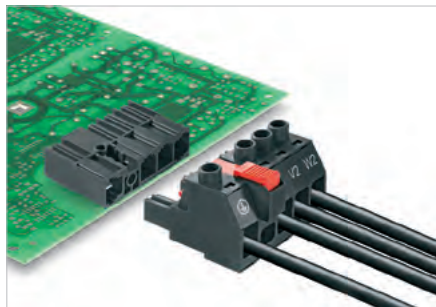
Ordering data

Solder pin length				
Colour				Black
Pitch 7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	32	1156750000

Additional deratings curves



SU 10.16IT../90MF



Male header in 90° outlet direction with a leading PE contact for IT networks. UL approval according to UL 840 for 600 V. Used together with a BUZ 10.16 IT female plug. It complies with the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1. When no female plug is present, the mating profile ensures at least 1 mm of finger protection with a test finger pressure of 20 N.

The middle flange interlock feature decreases the space required by one pole when compared to other solutions.

Available on request with screw flange mounting block or without flange.

Product data

IEC: 1000 V / 76 A

UL: 300 V / 54 A



For additional articles and information, refer to catalog.weidmueller.com

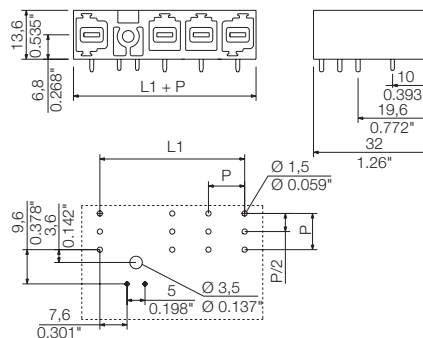
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SU 10.16IT../90MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	
Solid core H05(07) V-U	mm ²	
Stranded H07 V-R		
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

Rated current, max.

At ambient temperature

For conductor cross-section

Overvoltage category

Pollution severity

Rated voltage

Rated impulse voltage

UL / CUL (Use Group)

Rated voltage

Rated current

AWG conductor

CSA (Use Group)

Rated voltage

Rated current

AWG conductor

General data

Type of insulation material

UL 94 flammability rating

Contact base material

Material of contact surface

Pin dimensions = d

Solder eyelet Ø = D

Solder eyelet Ø tolerance

76

72

20°C

40°C

mm²

III

3

V

690

1000

1000

kV

B

C

D

V

300

300

600

A

54

54

5

mm

mm

mm

mm

mm

mm

mm

mm

mm

mm

mm

mm

mm

mm

mm

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BV/SV7.62	1824410000

Ordering data

Solder pin length			3.5 mm	
Colour			Black	
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	20.32	0.800	60	1156650000
3	30.48	1.200	42	1156670000
4	40.64	1.600	36	1156690000

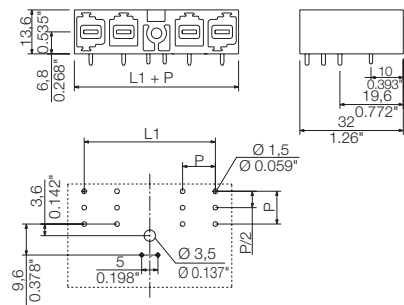


SU 10.16IT../90MF3

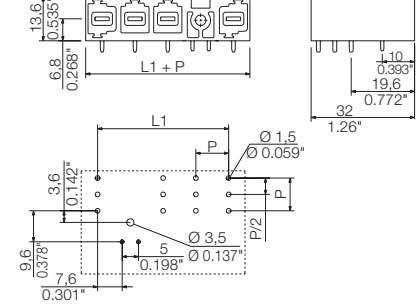
SU 10.16IT../90MF4



Dimensioned drawing



Dimensioned drawing



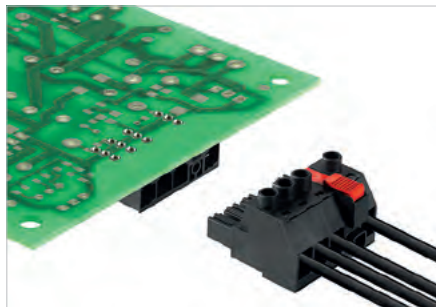
Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
3	30.48	1.200	42 1156680000

Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
4	40.64	1.600	36 1156700000

SU 10.16IT../270MF



Male header in 270° outlet direction with a leading PE contact for IT networks. UL approval according to UL 840 for 600 V. Used together with a BUZ 10.16 IT female plug. It complies with the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1. When no female plug is present, the mating profile ensures at least 1 mm of finger protection with a test finger pressure of 20 N.

The middle flange interlock feature decreases the space required by one pole when compared to other solutions.

Available on request with screw flange mounting block or without flange.

Product data

IEC: 1000 V / 76 A

UL: 300 V / 54 A



For additional articles and information, refer to catalog.weidmueller.com

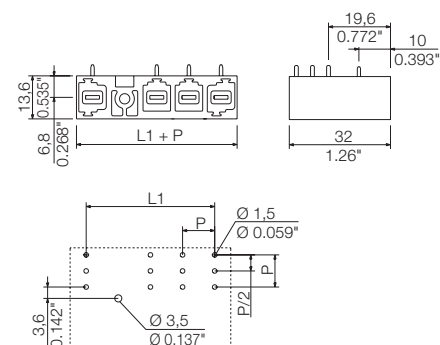
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SU 10.16IT../270MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	
Solid core H05(07) V-U	mm ²	
Stranded H07 V-R		
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, max.	A	76 72
At ambient temperature		20°C 40°C
For conductor cross-section	mm ²	
Overtolerance category		III III II
Pollution severity		3 2 2
Rated voltage	V	690 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)		B C D

Rated voltage	V	300 300 600
Rated current	A	54 54 5
AWG conductor	AWG	-
CSA (Use Group)		B C D

Rated voltage	V	300 300 600
Rated current	A	54 54 5
AWG conductor	AWG	-

General data

Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		silver-plated
Pin dimensions = d	mm	1.2 x 1.1
Solder eyelet Ø = D	mm	1.6
Solder eyelet Ø tolerance	mm	+ 0,1

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BV/SV7.62	1824410000



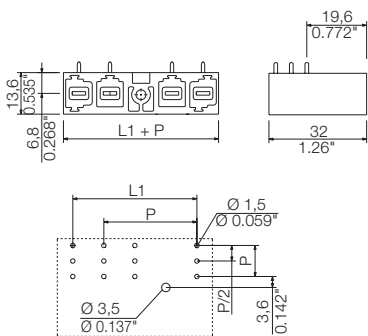
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	20.32	0.800	60	1157310000
3	30.48	1.200	42	1157320000
4	40.64	1.600	36	1157340000

SU 10.16IT../270MF3



Dimensioned drawing



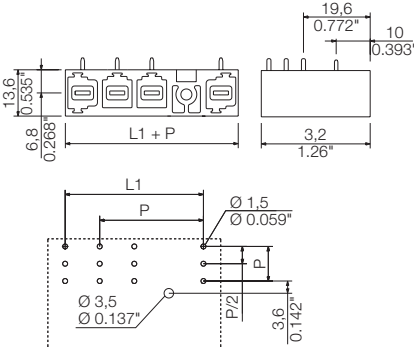
Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
3	30.48	1.200	42 1157330000

SU 10.16IT../270MF4



Dimensioned drawing

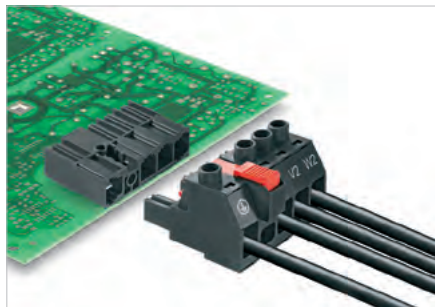


Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
4	40.64	1.600	36 1157350000

Connectors for IT systems in 10.16 mm pitch Series BU/SU 10.16 IT - connection up to 16 mm²

BUZ 10.16IT../180MF



Female plug in 180° outlet direction for IT networks. Fulfils the requirements of UL 1059 for 600 V Use Group C with leading PE contact when used with SU 10.16 IT male header. Fulfils the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1.

The middle flange interlocks automatically and is optionally available with screw connection. It decreases the space required by one pole when compared to other solutions.

Available optionally without middle flange interlock.

Product data

IEC: 1000 V / 78 A / 0.2 - 16 mm²
UL: 300 V / 54 A / AWG 22 - 6



For additional articles and information, refer to catalog.weidmueller.com

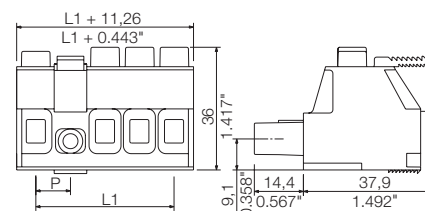
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

BUZ 10.16IT../180MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.2...16
Solid core H05(07) V-U	mm²	0.2...16
Stranded H07 V-R	mm ²	6...16
Flexible H05(07) V-K	mm ²	0.5...16
Flexible with ferrule	mm ²	0.25...16
Ferrule with plastic collar	mm ²	0.25...10
Stripping length	mm	12
Screwdriver blade	mm	1.0 x 5.5
According to norm		DIN 5264
Tightening torque range	Nm	1.2...1.5
Rated current, max.	A	78 72
At ambient temperature		20°C 40°C
For conductor cross-section	mm ²	16
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	1000 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)	B C D	

Rated voltage	V	300 600 600
Rated current	A	54 54 5
AWG conductor	AWG	22-6
CSA (Use Group)	B C D	
Rated voltage	V	300 600 600
Rated current	A	54 54 5
AWG conductor	AWG	22-6

General data

Type of insulation material	PA GF
UL 94 flammability rating	V-0
Contact base material	Cu-Leg
Material of contact surface	silver-plated
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

Accessories

Note: Refer to the Accessories chapter for additional accessories.

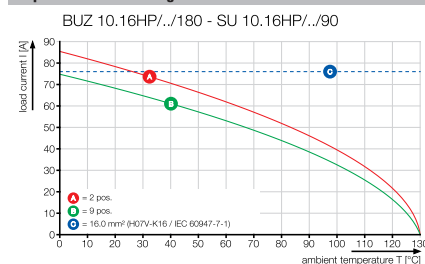
Coding	Order No.
KO BV/SV7.62	1824410000
Screwdriver	
SDIS 1.0X5.5X125	9008410000
Crosshead screwdriver	
SDIK PZ2	9008890000
SDK PZ2	9008540000

Ordering data

Solder pin length

Colour				Black
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	20.32	0.800	30	1156600000
3	30.48	1.200	21	1156610000
4	40.64	1.600	18	1156630000

Representative deratings curve



BUZ 10.16IT../180MF3

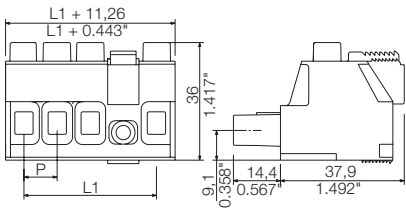
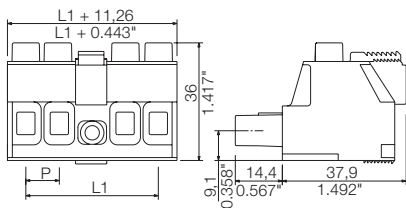
BUZ 10.16IT../180MF4



Dimensioned drawing



Dimensioned drawing



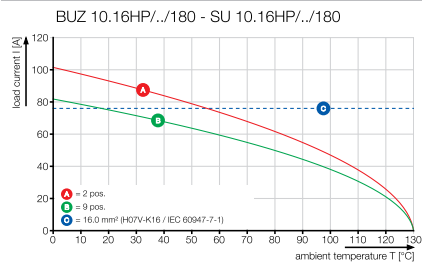
Ordering data

Solder pin length					
Colour					Black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	30.48	1.200	21	1156620000	

Ordering data

Solder pin length					
Colour					Black
Pitch 10.16 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	40.64	1.600	18	1156640000	

Additional deratings curves



OMNIMATE Power BL/SL 7.62HP – the 12 kVA power class

Custom-fit solutions for compact devices

Compact power for more safety and efficiency: The compact class in the OMNIMATE Power BL/SL 7.62HP power connector series integrates previously-conflicting market requirements to provide a custom-fit solution for drive applications.

This closes the gap between increasing miniaturisation and unlimited 600 V UL approval. The system extension to the 12 kVA power class enables a touch-safe, inverted motor connection with one-handed safety interlock. The "PUSH IN" connection system also provides a quick and reliable wire connection. Doublesided touch protection guarantees full protection even with inverse voltages. Thus even OMNIMATE Power's compact class is qualified for use with the DC link bus.

Compact safety

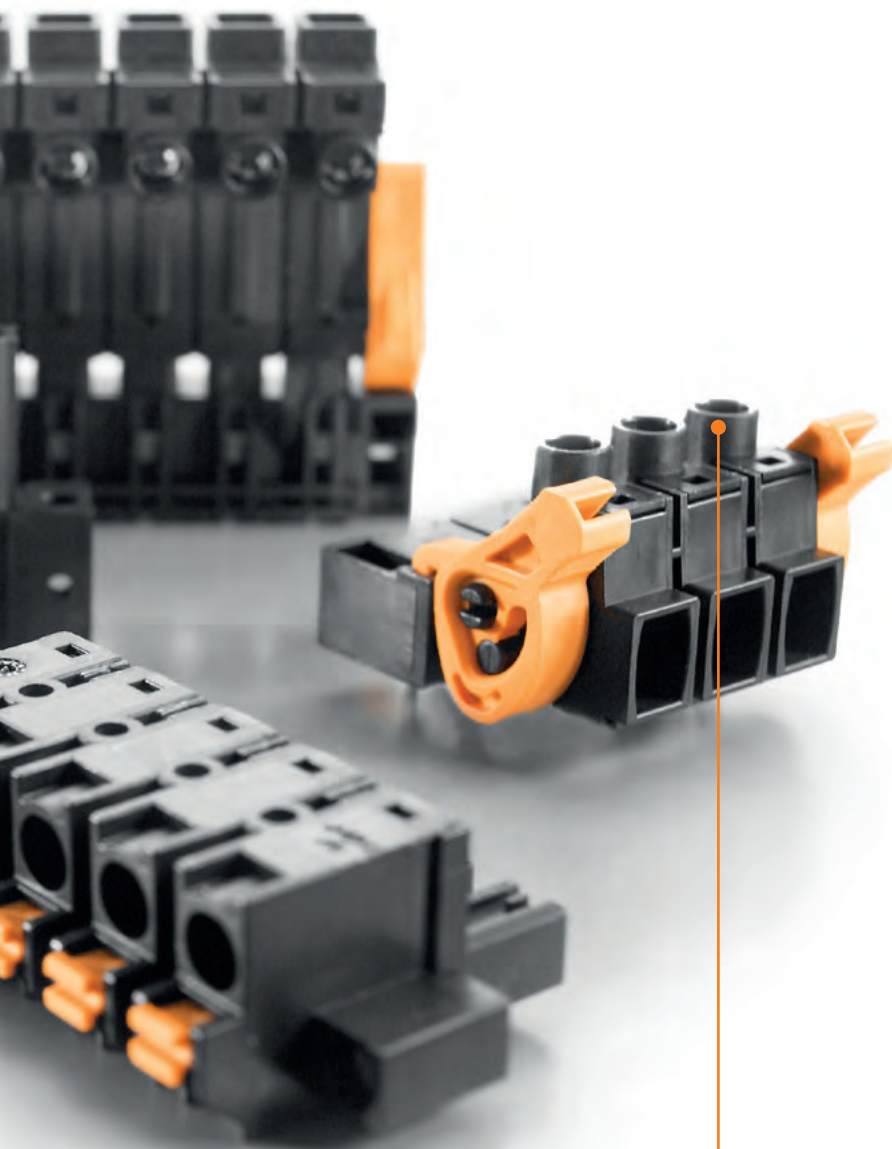
No additional measures required for DC links or inverse voltage: the inverted versions have finger-safe male header and female header even when not plugged in.



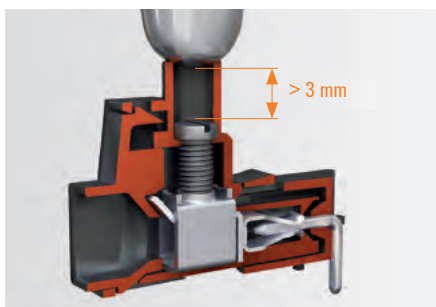
Compact reliability

Maintenance-free and vibration-proof connections: quick and simple "PUSH IN" connections, or the self-fastening Weidmüller steel clamp with plus/minus screw and "Wire Guard".



**Compact integration**

No compromises during design and approval: compact and standard-compliant with additional +3.0 mm finger safety, according to IEC 61800-5-1, and increased creepage and clearance distances according to UL.

**Compact system power**

An overview of OMNIMATE Power's 12 kVA class: The compact system with either standard or inverted mating profile, with screw or "PUSH IN" wire connection; optionally with lock & release lever, screw flange or one-handed safety interlock.

**Unrivalled current-carrying capacity**

The highest load capacity in the 12 kVA compact class: with up to 29 A current-carrying capacity at 1.000 V (IEC) with a 4 mm² wire cross-section or 18.5 A at 600 V according to UL.

**Individualised configuration**

Standard + Services = custom design with simple configuration across the entire range of services: features include colour coding, application-oriented labelling and custom modifications or design. More information can be found at <http://galaxy.weidmueller.com>



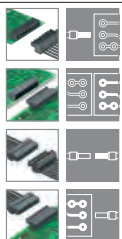
<http://www.OMNIMATE.net>

○ = Wire-to-Board

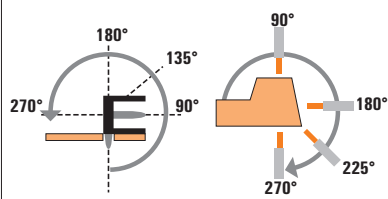
● = Board-to-Board

○ = Wire-to-Wire

● = Board-to-Wire



Orientation



Male header



Solder connection



BL/SL 7.62 series



Type	SL	SL	
Orientation	90°	180°	
Flange options	G/F/LF	G/F/LF	
Product code numbers	IEC: 800 V/24 A UL: 300 V/20 A	IEC: 800 V/24 A UL: 300 V/20 A	
Page	I.50	I.52	

Female plug			BLZ	180°	(G)/LR	IEC: 630 V/24 A/0.08 - 2.5 mm ² UL: 600 V/20 A/AWG 20 - 12	I.58	○	○	
			BLF	180°	(G)/F/LR	IEC: 1.000 V/24 A/0.08 - 2.5 mm ² UL: 300 V/20 A/AWG 20	I.60	○	○	
Female header			BLL	90°	(G)/F/LF	IEC: 630 V/24 A UL: 300 V/20 A	I.62			
			BLL	180°	(G)/F/LF	IEC: 630 V/24 A UL: 300 V/20 A	I.64			

Female plug and header:

(G) = Closed (without flange)
F = Screw flange with screw
LR = Lock & Release lever

Male header and plug:

G = Closed (without flange)
F = Screw flange with nut
LF = Solder flange with nut
LR = Lock & Release lever

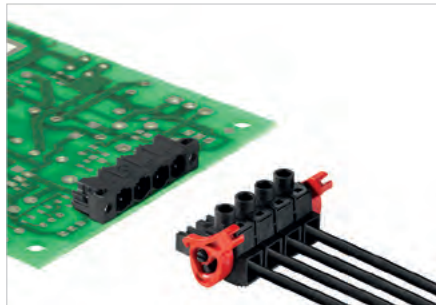
	Male plug	
	 Screw Clamping yoke	 Spring PUSH IN



	SLZ	SLF
	180°	180°
	G/F/LR	G/F/LR
	IEC: 1.000 V/24 A/ 0.08 - 2.5 mm ² UL: 600 V/17 A/ AWG 20 - 12	IEC: 1.000 V/24 A/ 0.08 - 2.5 mm ² UL: 600 V/20 A/ AWG 20 - 12
	I.55	I.57
	●	●
	●	●

Connectors in 7.62 mm pitch Series BL/SL 7.62 - connects up to 4 mm²

SL 7.62HP/./90



Male header in 90° outlet direction. The compact and efficient solution for UL-600 V applications in the lower power range meets in conjunction with a female plug, the 600 V requirements for UL 508 / UL 840 and the increased need for touch-safe protection according to IEC 68100-5-1.

- Available with screw flange (F) and a solder flange (SF).

Product data

IEC: 630 V / 29 A

UL: 300 V / 20 A



For additional articles and information, refer to catalog.weidmueller.com

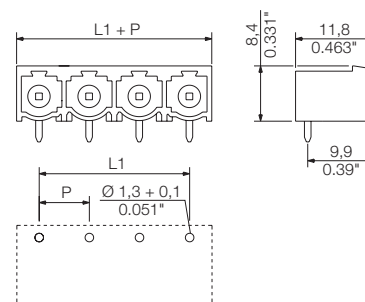
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = 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.

SL 7.62HP/./90G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm ²		
Stranded H07 V-R			
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, max.	A	29	25
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III
Pollution severity		3	2
Rated voltage	V	400	500
Rated impulse voltage	kV	6	6
UL / CUL (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	20	20
AWG conductor	AWG	-	5
CSA (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	20	20
AWG conductor	AWG	-	5
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
BLZ/SL KO BK BX		1545710000
BLZ/SL KO OR BX		1573010000

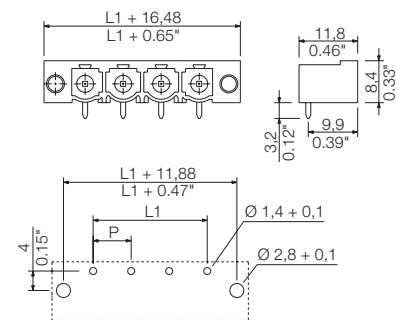
Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1026760000
3	15.24	0.600	100	1026770000
4	22.86	0.900	100	1026780000
5	30.48	1.200	50	1026790000
6	38.10	1.500	50	1059490000
7	45.72	1.800	50	1059500000
8	53.34	2.100	50	1059510000
9	60.96	2.400	50	1059520000
10	68.58	2.700	50	1059530000
11	76.20	3.000	50	1059550000
12	83.82	3.300	50	1059570000

SL 7.62HP/./90F



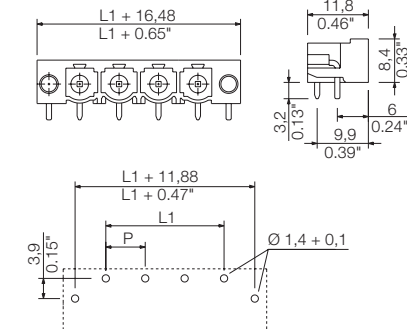
Dimensioned drawing



SL 7.62HP/./90LF



Dimensioned drawing



Ordering data

Solder pin length		3.2 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Order No.
2	7.62	0.300	1026850000
3	15.24	0.600	1026860000
4	22.86	0.900	1026870000
5	30.48	1.200	1026880000
6	38.10	1.500	1124250000
7	45.72	1.800	1124270000
8	53.34	2.100	1124280000
9	60.96	2.400	1124290000
10	68.58	2.700	1124300000
11	76.20	3.000	1124310000
12	83.82	3.300	1124320000

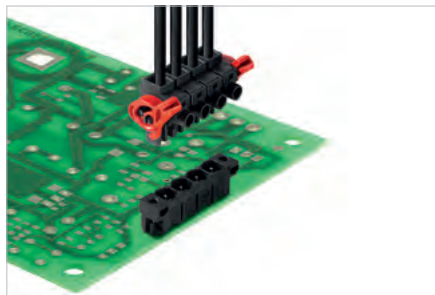
Ordering data

Solder pin length		3.2 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1	(inch)	Order No.
2	7.62	0.300	1095920000
3	15.24	0.600	1095930000
4	22.86	0.900	1095940000
5	30.48	1.200	1095950000
6	38.10	1.500	1095960000
7	45.72	1.800	1095970000
8	53.34	2.100	1095980000
9	60.96	2.400	1095990000
10	68.58	2.700	1096000000
11	76.20	3.000	1096010000
12	83.82	3.300	1096020000

Connectors in 7.62 mm pitch

Series BL/SL 7.62 - connects up to 4 mm²

SL 7.62HP../180



Male header in 180° outlet direction. The compact and efficient solution for UL-600 V applications in the lower power range meets in conjunction with a female plug, the 600 V requirements for UL 508 / UL 840 and the increased need for touch-safe protection according to IEC 68100-5-1.

- Available with screw flange (F) and a solder flange (SF).

Product data

IEC: 630 V / 29 A

UL: 300 V / 20 A



For additional articles and information, refer to catalog.weidmueller.com

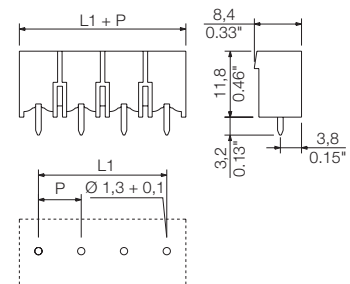
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = 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.

SL 7.62HP../180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm ²		
Stranded H07 V-R			
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, max.	A	29	25
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III
Pollution severity		3	2
Rated voltage	V	400	500
Rated impulse voltage	kV	6	6
UL / CUL (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	20	20
AWG conductor	AWG	-	5
CSA (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	20	20
AWG conductor	AWG	-	5
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	1.0 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO BK BX	1545710000
	BLZ/SL KO OR BX	1573010000

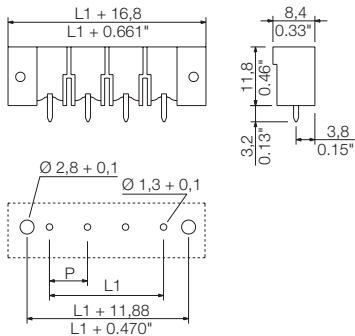
Ordering data

Solder pin length		3.2 mm		
Colour		Black		
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1122550000
3	15.24	0.600	100	1122570000
4	22.86	0.900	100	1122580000
5	30.48	1.200	50	1048980000
6	38.10	1.500	50	1048990000
7	45.72	1.800	50	1122590000
8	53.34	2.100	50	1049000000
9	60.96	2.400	50	1122600000
10	68.58	2.700	50	1122610000
11	76.20	3.000	50	1122640000
12	83.82	3.300	50	1122650000

SL 7.62HP/./180F



Dimensioned drawing



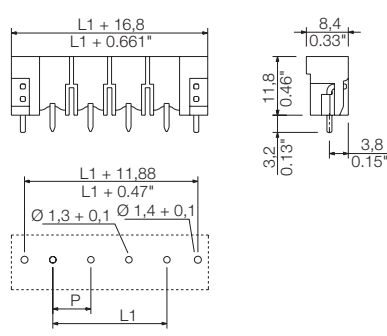
Ordering data

Solder pin length		3.2 mm			
Colour		Black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1140870000	
3	15.24	0.600	100	1140880000	
4	22.86	0.900	100	1140890000	
5	30.48	1.200	50	1140900000	
6	38.10	1.500	50	1140910000	
7	45.72	1.800	50	1140920000	
8	53.34	2.100	50	1140930000	
9	60.96	2.400	50	1140940000	
10	68.58	2.700	50	1140950000	
11	76.20	3.000	50	1140960000	
12	83.82	3.300	50	1140970000	

SL 7.62HP/./180LF



Dimensioned drawing

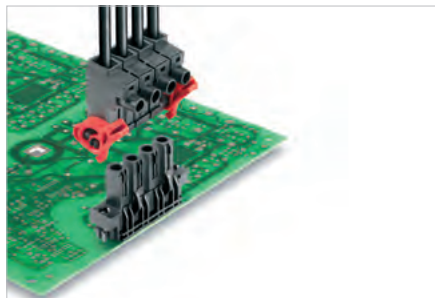


Ordering data

Solder pin length		3.2 mm			
Colour		Black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1141090000	
3	15.24	0.600	100	1141100000	
4	22.86	0.900	100	1141110000	
5	30.48	1.200	50	1141120000	
6	38.10	1.500	50	1141130000	
7	45.72	1.800	50	1141140000	
8	53.34	2.100	50	1141150000	
9	60.96	2.400	50	1141160000	
10	68.58	2.700	50	1141170000	
11	76.20	3.000	50	1141180000	
12	83.82	3.300	50	1141190000	

Connectors in 7.62 mm pitch Series BL/SL 7.62 - connects up to 4 mm²

SLZ 7.62HP../180



Male plug with clamping yoke screw connection in 180° outlet direction. Also perfect for finger-safe solutions involving inverse voltages. Complies with UL 1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC(S) systems.

- Available with screw flange (F) and lock and release-levers (LR).

Product data

IEC: 1000 V / 20 A / 0.5 - 2.5 mm²
UL: 600 V / 17 A / AWG 20 - 12



For additional articles and information, refer to catalog.weidmueller.com

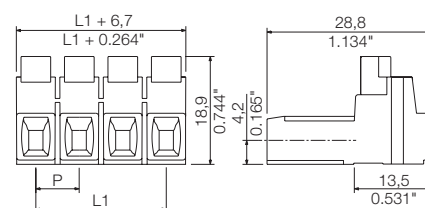
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = 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.

SLZ 7.62HP../180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.08...2.5
Solid core H05(07) V-U	mm ²	0.5...2.5
Stranded H07 V-R		
Flexible H05(07) V-K	mm ²	0.5...2.5
Flexible with ferrule	mm ²	0.5...2.5
Ferrule with plastic collar	mm ²	0.5...1.5
Stripping length	mm	8
Screwdriver blade	mm	0.6 x 3.5
According to norm		DIN 5264
Tightening torque range	Nm	0.4...0.5
Rated current, max.	A	20 17.5
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	2.5
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	630 1000 1000
Rated impulse voltage	kV	6 8 6
UL / CUL (Use Group)	B C D	

Rated voltage	V	600 600 600
Rated current	A	17 17 5
AWG conductor	AWG	20-12
CSA (Use Group)	B C D	

Rated voltage	V	600 600 600
Rated current	A	17 17 5
AWG conductor	AWG	20-12

General data

Type of insulation material	PBT
UL 94 flammability rating	V-0
Contact base material	Cu-Leg
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

Accessories

Note: Refer to the Accessories chapter for additional accessories.

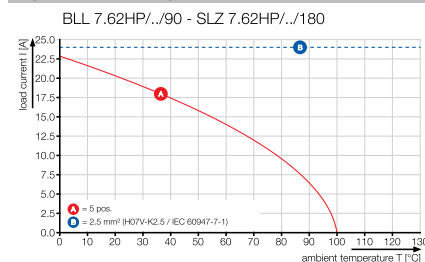
Screwdriver	Order No.
SDIS 0.6X3.5X100	9008390000
SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length

Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	126	1043350000
3	15.24	0.600	84	1043360000
4	22.86	0.900	60	1043370000
5	30.48	1.200	48	1043380000

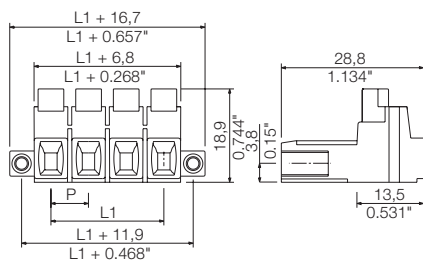
Representative deratings curve



SLZ 7.62HP../180F



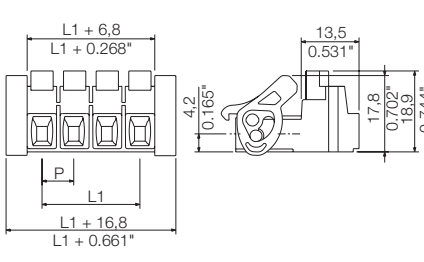
Dimensioned drawing



SLZ 7.62HP../180LR



Dimensioned drawing



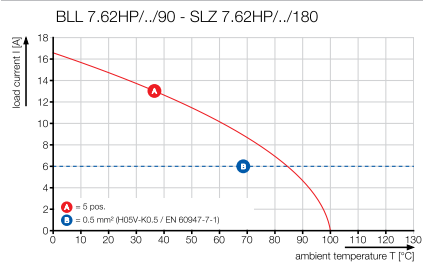
Ordering data

Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043430000	
3	15.24	0.600	54	1043440000	
4	22.86	0.900	42	1043450000	
5	30.48	1.200	36	1043460000	

Ordering data

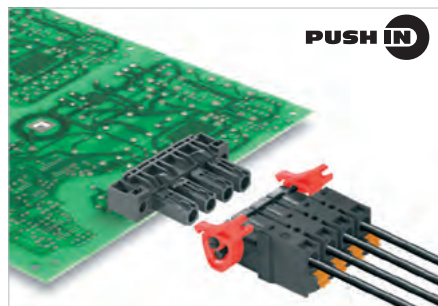
Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043510000	
3	15.24	0.600	54	1043520000	
4	22.86	0.900	42	1043530000	
5	30.48	1.200	36	1043540000	

Additional deratings curves



Connectors in 7.62 mm pitch Series BL/SL 7.62 - connects up to 4 mm²

SLF 7.62HP../180



Male plug with "PUSH IN" spring connection in 180° outlet direction. Also perfect for finger-safe solutions involving inverse voltages. Complies with UL 1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC systems.

- Available with screw flange (F) and lock and release-levers (LR).

Product data

IEC: 1000 V / 24 A / 0.5 - 2.5 mm²
UL: 600 V / 20 A / AWG 20 - 12



For additional articles and information, refer to catalog.weidmueller.com

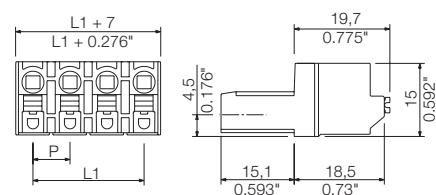
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = 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.

SLF 7.62HP../180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.08...2.5	
Solid core H05(07) V-U	mm ²	0.5...2.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...2.5	
Flexible with ferrule	mm ²	0.5...1.5	
Ferrule with plastic collar	mm ²	0.5...1.5	
Stripping length	mm	10	
Screwdriver blade	mm	0.6 x 3.5	
According to norm		DIN 5264	
Tightening torque range	Nm		
Rated current, max.	A	24	23.8
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	2.5	
Overvoltage category		III	II
Pollution severity		3	2
Rated voltage	V	630	1000
Rated impulse voltage	kV	6	6
UL / CUL (Use Group)		B	C
Rated voltage	V	600	600
Rated current	A	20	5
AWG conductor	AWG	20-12	
CSA (Use Group)		B	C
Rated voltage	V	600	600
Rated current	A	20	5
AWG conductor	AWG	20-12	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

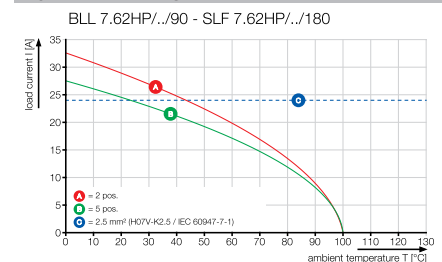
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver	Order No.
SDIS 0.6X3.5X100	9008390000
SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	126	1043590000
3	15.24	0.600	84	1043600000
4	22.86	0.900	60	1043610000
5	30.48	1.200	48	1043620000

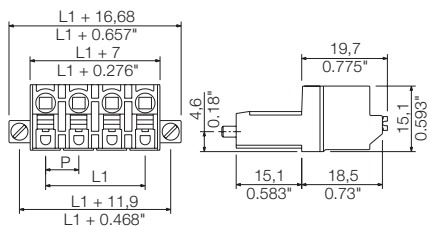
Representative deratings curve



SLF 7.62HP../180F



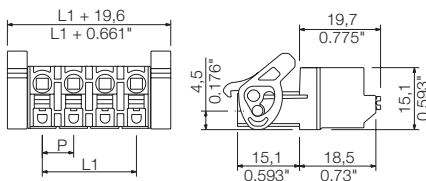
Dimensioned drawing



SLF 7.62HP../180LR



Dimensioned drawing



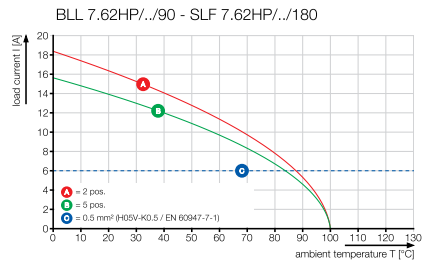
Ordering data

Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043670000	
3	15.24	0.600	54	1043680000	
4	22.86	0.900	42	1043690000	
5	30.48	1.200	36	1043700000	

Ordering data

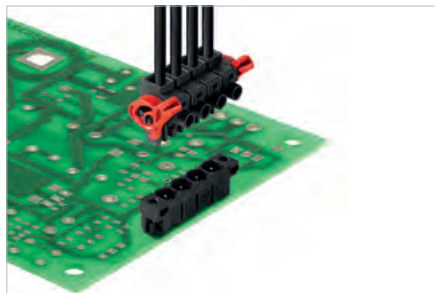
Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043750000	
3	15.24	0.600	54	1043760000	
4	22.86	0.900	42	1043770000	
5	30.48	1.200	36	1043780000	

Additional deratings curves



Connectors in 7.62 mm pitch Series BL/SL 7.62 - connects up to 4 mm²

BLZ 7.62HP../180



Female plug with clamping yoke screw connection in 180° outlet direction. Complies with UL 1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC(S) systems.

- Available with lock and release-levers (LR) and screw flange on request.

Product data

IEC: 630 V / 29 A / 0.2 - 4 mm²
UL: 600 V / 20 A / AWG 20 - 12



For additional articles and information, refer to catalog.weidmueller.com

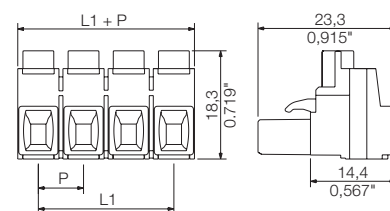
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = 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.

BLZ 7.62HP../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.08...4
Solid core H05(07) V-U	mm ²	0.2...4
Stranded H07 V-R		
Flexible H05(07) V-K	mm ²	0.2...4
Flexible with ferrule	mm ²	0.2...2.5
Ferrule with plastic collar	mm ²	0.2...2.5
Stripping length	mm	7
Screwdriver blade	mm	0.6 x 3.5
According to norm		DIN 5264
Tightening torque range	Nm	0.4...0.5
Rated current, max.	A	29 25
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	2.5
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	400 500 630
Rated impulse voltage	kV	6 6 4

UL / CUL (Use Group)

Rated voltage	V	600	600	600
Rated current	A	20	20	5
AWG conductor	AWG	20-12		
CSA (Use Group)		B	C	D
Rated voltage	V	600	600	600
Rated current	A	20	20	5
AWG conductor	AWG	20-12		

General data

Type of insulation material	PBT
UL 94 flammability rating	V-0
Contact base material	Cu-Leg
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

Accessories

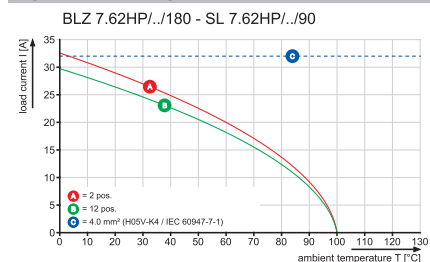
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BLZ/SL KO BK BX	1545710000
BLZ/SL KO OR BX	1573010000
Screwdriver	
SDIS 0.6X3.5X100	9008390000
SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				
Colour			Black	
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1059580000
3	15.24	0.600	100	1059590000
4	22.86	0.900	100	1059600000
5	30.48	1.200	50	1049010000
6	38.10	1.500	50	1049020000
7	45.72	1.800	50	1059610000
8	53.34	2.100	50	1049030000
9	60.96	2.400	50	1059620000
10	68.58	2.700	50	1059630000
11	76.20	3.000	50	1059640000
12	83.82	3.300	50	1059670000

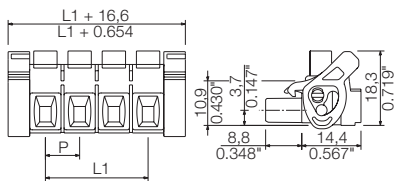
Representative deratings curve



BLZ 7.62HP/./180LR



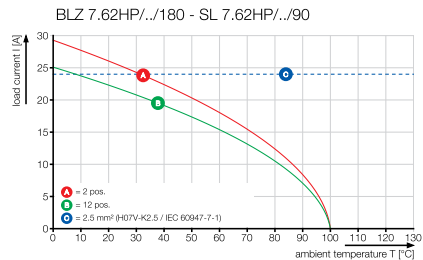
Dimensioned drawing



Ordering data

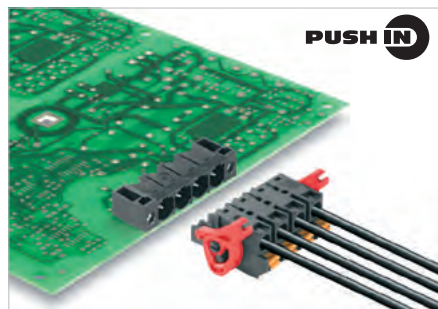
Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	60	1093430000
3	15.24	0.600	45	1093440000
4	22.86	0.900	35	1093450000
5	30.48	1.200	30	1093460000
6	38.10	1.500	25	1164960000
7	45.72	1.800	20	1164970000
8	53.34	2.100	20	1164980000
9	60.96	2.400	15	1164990000
10	68.58	2.700	15	1165000000
11	76.20	3.000	15	1165010000
12	83.82	3.300	15	1165020000

Additional deratings curves



Connectors in 7.62 mm pitch Series BL/SL 7.62 - connects up to 4 mm²

BLF 7.62HP../180



Female plug with "PUSH IN" spring connection in 180° outlet direction. Complies with UL 1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC(S) systems.

- Available with screw flange (F) and lock and release-levers (LR).

Product data

IEC: 1000 V / 24 A / 0.5 - 1.5 mm²
UL: 600 V / 20 A / AWG 20 - 12



For additional articles and information, refer to catalog.weidmueller.com

Note:

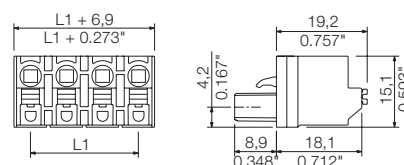
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLF 7.62HP../180

with test point



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.08...2.5
Solid core H05(07) V-U	mm ²	0.5...1.5
Stranded H07 V-R		
Flexible H05(07) V-K	mm ²	0.5...2.5
Flexible with ferrule	mm ²	0.5...2.5
Ferrule with plastic collar	mm ²	0.5...2.5
Stripping length	mm	10
Screwdriver blade	mm	0.6 x 3.5

According to norm

Tightening torque range	Nm	
Rated current, max.	A	24 23.8
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	2.5
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	630 1000 1000
Rated impulse voltage	kV	6 8 6
UL / CUL (Use Group)	B C D	

Rated voltage	V	600 600 600
Rated current	A	20 20 5
AWG conductor	AWG	20-12
CSA (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	21 21 5
AWG conductor	AWG	20-12

General data

Type of insulation material	PBT
UL 94 flammability rating	V-0
Contact base material	Cu-Leg
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

Accessories

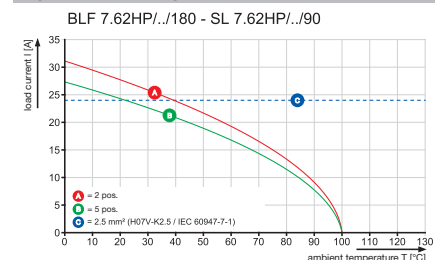
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver	Order No.
SDIS 0.5X3.0X100	9008380000
SDS 0.5X3.0X80	9008320000
Crimping tool	
PZ 6/5	9011460000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	126	1043830000
3	15.24	0.600	78	1043840000
4	22.86	0.900	60	1043850000
5	30.48	1.200	48	1043860000
6	38.10	1.500	36	1227340000
7	45.72	1.800	30	1227350000
8	53.34	2.100	30	1227360000
9	60.96	2.400	24	1227370000
10	68.58	2.700	24	1227380000
11	76.20	3.000	18	1227390000
12	83.82	3.300	18	1227410000

Representative deratings curve

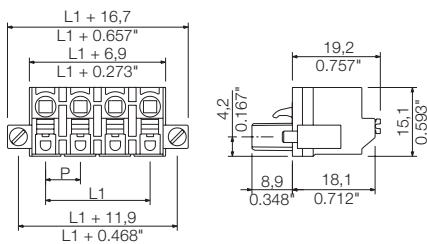


BLF 7.62HP../180F

with test point



Dimensioned drawing

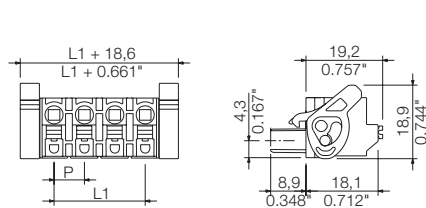


BLF 7.62HP../180LR

with test point



Dimensioned drawing



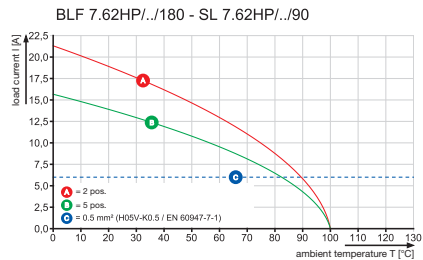
Ordering data

Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043910000	
3	15.24	0.600	54	1043920000	
4	22.86	0.900	42	1043930000	
5	30.48	1.200	36	1043940000	
6	38.10	1.500	30	1227490000	
7	45.72	1.800	24	1227510000	
8	53.34	2.100	24	1227520000	
9	60.96	2.400	18	1227530000	
10	68.58	2.700	18	1227540000	

Ordering data

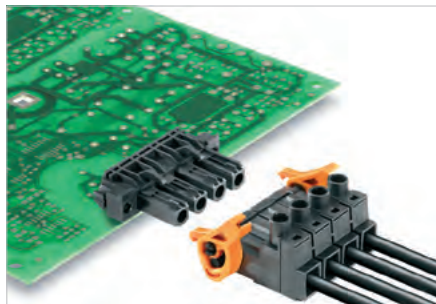
Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	72	1043990000	
3	15.24	0.600	54	1044000000	
4	22.86	0.900	42	1044010000	
5	30.48	1.200	36	1044020000	
6	38.10	1.500	30	1227420000	
7	45.72	1.800	24	1227430000	
8	53.34	2.100	24	1227440000	
9	60.96	2.400	18	1227450000	
10	68.58	2.700	18	1227460000	

Additional deratings curves



Connectors in 7.62 mm pitch Series BL/SL 7.62 - connects up to 4 mm²

BLL 7.62HP/./90



Touch-safe female header in 90° outlet direction. Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL 508 / UL 840 for 600 V. An ideal touch-safe solution for power output and DC link applications. According to IEC 61800-5-1, the mating profile ensures more than 3 mm of touch safety.

- Available with screw flange (F) and solder flange (LF).

Product data

IEC: 630 V / 24 A

UL: 300 V / 20 A



For additional articles and information, refer to catalog.weidmueller.com

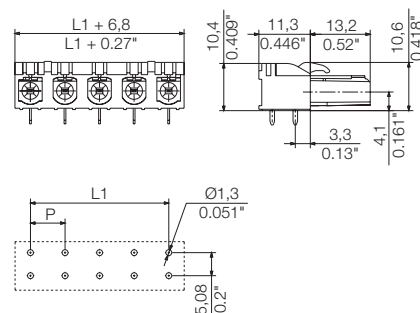
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Spacing between rows: see hole layout
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = 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.

BLL 7.62HP/./90G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm ²		
Stranded H07 V-R			
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, max.	A	24	24
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III
Pollution severity		3	2
Rated voltage	V	400	630
Rated impulse voltage	kV	6	6
UL / CUL (Use Group)		B	C
Rated voltage	V	300	150
Rated current	A	20	10
AWG conductor	AWG	-	-
CSA (Use Group)		B	C
Rated voltage	V	300	150
Rated current	A	20	10
AWG conductor	AWG	-	-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.4 x 1.00	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

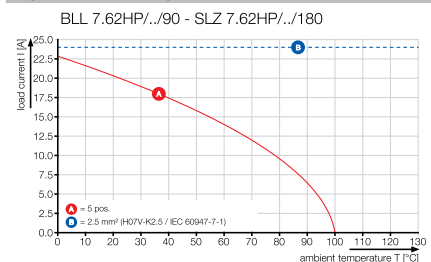
Accessories

Note: Refer to the Accessories chapter for additional accessories.

Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	126	1043230000
3	15.24	0.600	84	1043240000
4	22.86	0.900	60	1043250000
5	30.48	1.200	48	1043260000

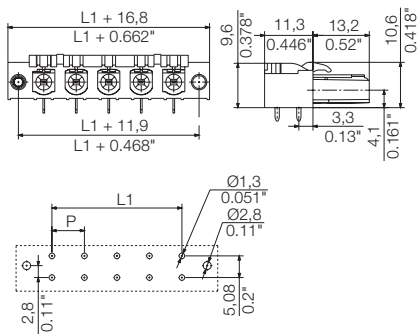
Representative deratings curve



BLL 7.62HP../90F



Dimensioned drawing



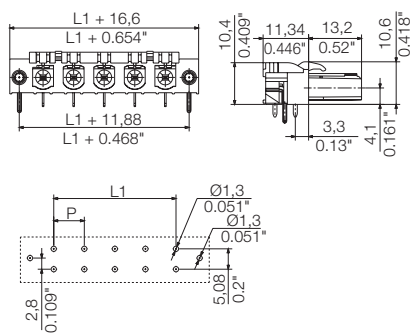
Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	72	1043270000
3	15.24	0.600	54	1043280000
4	22.86	0.900	42	1043290000
5	30.48	1.200	36	1043300000

BLL 7.62HP../90LF



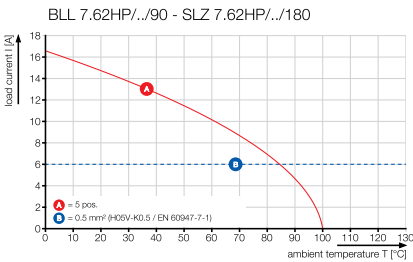
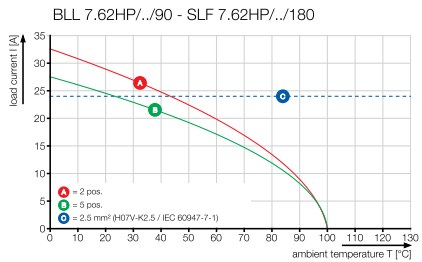
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	72	1095640000
3	15.24	0.600	54	1095650000
4	22.86	0.900	42	1095660000
5	30.48	1.200	36	1095670000

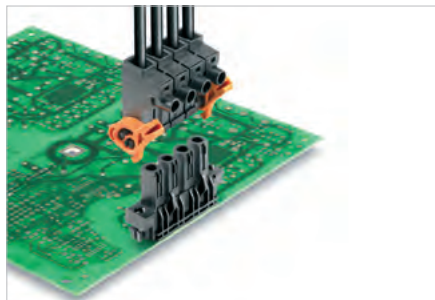
Additional deratings curves



Connectors in 7.62 mm pitch

Series BL/SL 7.62 - connects up to 4 mm²

BLL 7.62HP../180



Touch-safe female header in 180° outlet direction.

Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL 508 / UL 840 for 600 V. An ideal touch-safe solution for power output and DC link applications. According to IEC 61800-5-1, the mating profile ensures more than 3 mm of touch safety.

- Available with screw flange (F) and solder flange (LF).

Product data

IEC: 630 V / 24 A

UL: 300 V / 20 A



For additional articles and information, refer to catalog.weidmueller.com

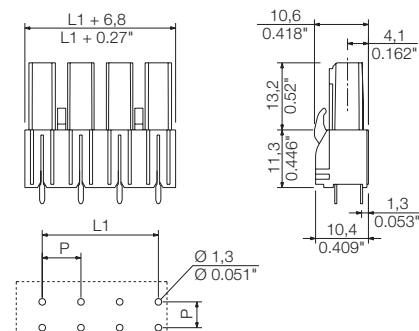
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Spacing between rows: see hole layout
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = 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.

BLL 7.62HP../180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm ²		
Stranded H07 V-R			
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, max.	A	24	24
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III
Pollution severity		3	2
Rated voltage	V	400	630
Rated impulse voltage	kV	6	6
UL / CUL (Use Group)		B	C
Rated voltage	V	300	150
Rated current	A	20	10
AWG conductor	AWG	-	-
CSA (Use Group)		B	C
Rated voltage	V	300	150
Rated current	A	20	10
AWG conductor	AWG	-	-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.4 x 1.00	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

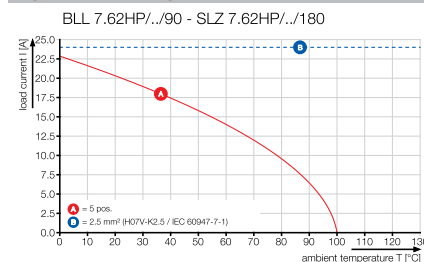
Accessories

Note: Refer to the Accessories chapter for additional accessories.

Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	126	1122070000
3	15.24	0.600	84	1122080000
4	15.24	0.600	60	1122090000
5	30.48	1.200	48	1122100000

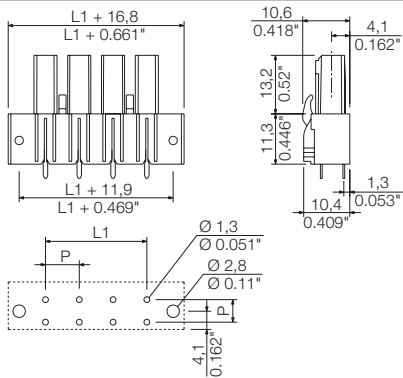
Representative deratings curve



BLL 7.62HP.././180F



Dimensioned drawing



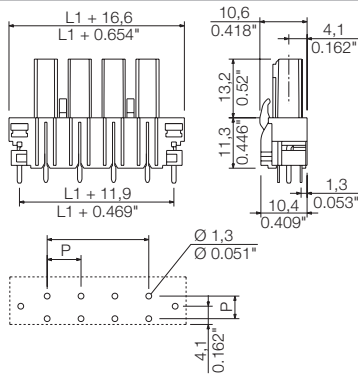
Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	72	1122110000
3	15.24	0.600	54	1122120000
4	22.86	0.900	42	1122130000
5	30.48	1.200	36	1122140000

BLL 7.62HP.././180LF



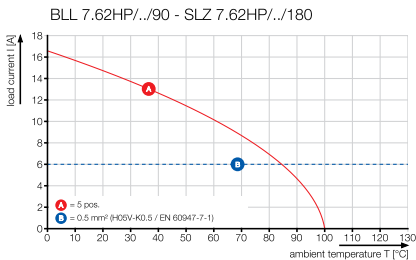
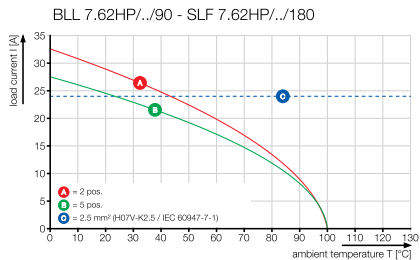
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	72	1134080000
3	15.24	0.600	54	1134090000
4	22.86	0.900	42	1134110000
5	30.48	1.200	36	1134120000

Additional deratings curves

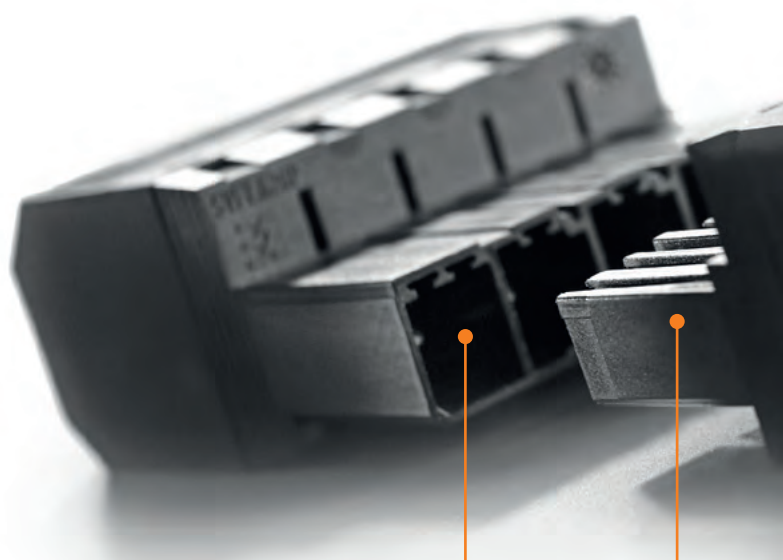


OMNIMATE Power BV / SV 7.62HP – the 28 kVA power class

Custom-fit high-powered solutions

More power reserves for more load capacity: The OMNIMATE Power SV / BV 7.62HP mid-level class of power connection systems is the top performer of the HP series. It features a large clamping range, increased overload capacity and the widest selection of variants and accessories.

HP means High Performance – this performance covers a great deal: the full rated current up to 50 °C without derating, unlimited 600 V approval according to UL, and the additional finger safety for 400 V-TN systems (+ 3.0 mm) in compliance with the application directive IEC 61800-5-1.



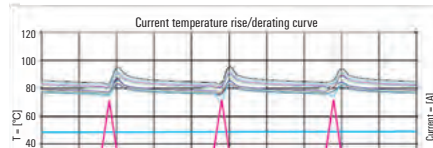
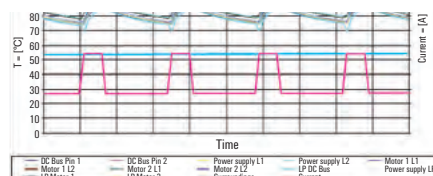
Maximum safety

Safe for both man and machine with bi-directional finger safety: also when not plugged in and covering inverse voltages from power electronics.



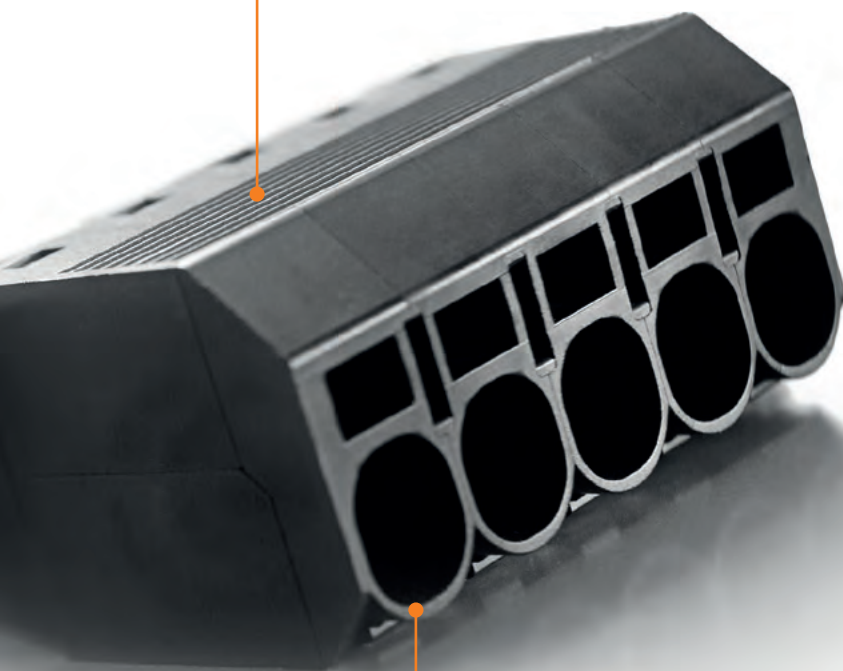
Maximum performance

Full current rating at 40 °C ambient temperature is a mandatory requirement in drive applications. What really makes the difference here is real-world, application-based overload and over-heating capacities.



Maximum user-friendliness

Quick, simple plug and release: with the one-handed safety flange – convenient for the user and safe for the application.

**Maximum efficiency**

Tool-free simplicity: quick "PUSH IN" connection mechanism and automatic, convenient snap-in with one-handed safety interlock.

**High system performance**

An overview of the 28-kVA class of OMNIMATE Power: The HP system has been leading the way with its tool-free rapid interlock, installation-safe creepage and clearance distances, and application-based versioning scheme. This integrated strategy of system expansion includes a one-handed safety flange and wide range of innovative extras.

**Individualised configuration**

Standard + Services = custom design with simple configuration across the entire range of services: features include colour coding, application-oriented labelling and custom modifications or design.



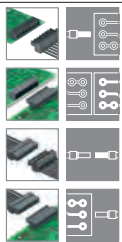
<http://www.OMNIMATE.net>

○ = Wire-to-Board

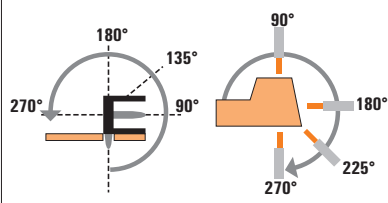
● = Board-to-Board

● = Wire-to-Wire

● = Board-to-Wire



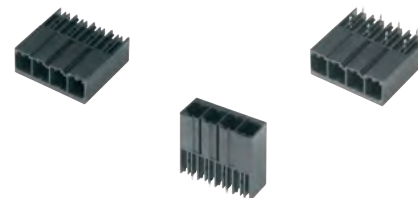
Orientation



Male header



Solder connection



BV/SV 7.62 series



Type	SV	SV	SV
Orientation	90°	180°	270°
Flange options	G/F/SF/MF/ MSF	G/F/SF/MF/ MSF	G/F/SF/MF/ MSF
Product code numbers	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/41 A UL: 300 V/35 A
Page	I.70	I.74	I.78

Female plug	Screw Clamping yoke		BVZ 180° (G)/F/SF	IEC: 1.000 V/41 A/0.2 - 6 mm ² UL: 600 V/35 A/AWG 24 - 10	I.100	○	○	○
			BVZ 180° FC/SFC	IEC: 1.000 V/41 A/0.2 - 6 mm ² UL: 600 V/35 A/AWG 24 - 10	I.101			
			BVZ 180° SH...	IEC: 1.000 V/41 A/0.2 - 6 mm ² UL: 600 V/35 A/AWG 24 - 10	I.102	○	○	○
			BVZ 180° SH... C	IEC: 1.000 V/41 A/0.2 - 6 mm ² UL: 600 V/35 A/AWG 24 - 10	I.104			
Female header	Spring PUSH IN		BVF 180° (G)/F/SF/MF/MSF	IEC: 1.000 V/41 A/0.2 - 10 mm ² UL: 600 V/35 A/AWG 24 - 10	I.107	○	○	○
			BVL 90° (G)/FI/SFI	IEC: 1.000 V/41 A UL: 300 V/35 A	I.112	●	●	●
			BVL 180° (G)/FI/SFI	IEC: 1.000 V/41 A UL: 300 V/35 A	I.114	●	●	●
			BVL 270° (G)/FI/SFI	IEC: 1.000 V/41 A UL: 300 V/35 A	I.116	●	●	●
Female header	Solder connection		BVL 90° (G)/FI/SFI	IEC: 1.000 V/41 A UL: 300 V/35 A	I.112	●	●	●
			BVL 180° (G)/FI/SFI	IEC: 1.000 V/41 A UL: 300 V/35 A	I.114	●	●	●
			BVL 270° (G)/FI/SFI	IEC: 1.000 V/41 A UL: 300 V/35 A	I.116	●	●	●
			BVL 90° (G)/FI/SFI	IEC: 1.000 V/41 A UL: 300 V/35 A	I.112	●	●	●

Female plug and header:

(G) = Closed (without flange)

F = Flange with clasp

SF = Flange with clasp and additional screw

SFC = Flange with clasp and additional screw

FI = Inverted flange with clasp

SFI = Inverted flange with clasp and additional screw

FC = Flange with clasp

SH... = Shielded flange with additional nut

SH... C = Shielded flange with additional screw

MF = Centre flange for clasp

MSF = Centre flange for clasp with additional nut

Male plug									
 Screw Clamping yoke						 Spring PUSH IN			

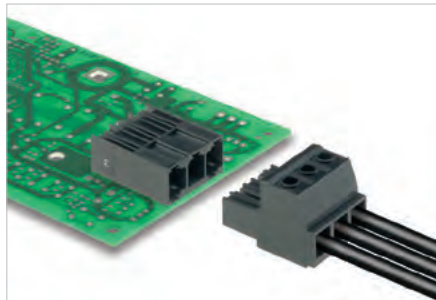


	SVZ	SVZ	SVZ	SVZ	SVZ	SVZ	SVF	SVF	SVF
	180°	180°	180°	180°	180°	180°	180°	180°	180°
	G/F/SF	G/FC/SFC	G/FI/SFI	SH	SH	SH	G/F/SF	G/FI/SFI	MF/MSF
	IEC: 1.000 V/41 A/ 0.2 - 6 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.2 - 6 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.2 - 6 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.2 - 6 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.2 - 6 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.2 - 6 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.5 - 10 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.5 - 10 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.5 - 10 mm ² UL: 600 V/35 A/ AWG 24 - 10
	1.82	1.84	1.86	1.88	1.89	1.90	1.92	1.94	1.96
	●			●	●		●		
		●			●				
	●			●			●		
		●							
	●			●	●		●		●
	●		●			●		●	
	●		●			●		●	
	●		●			●		●	

Male header and plug:**G** = Closed (without flange)**F** = Flange with clasp**SF** = Flange with clasp and additional screw**FI** = Inverted flange with clasp**SFI** = Inverted flange with clasp and additional screw**FC** = Flange with clasp**SFC** = Flange with clasp and additional screw**SH...** = Shielded flange with additional nut**MF** = Centre flange for clasp**MSF** = Centre flange for clasp with additional nut

Connectors in 7.62 mm pitch Series BV/SV 7.62 - connects up to 6 mm²

SV 7.62HP/./90



Male header in 90° outlet direction for 400 V TNC (S) systems. UL approved for 600 V in accordance with UL 508 / UL 840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, unique coding capability and additional fastening mechanism.

- Available with a flange (F), screw flange (SF) and middle screw flange (MF).

Product data

IEC: 1000 V / 41 A
UL: 300 V / 40.5 A



For additional articles and information, refer to catalog.weidmueller.com

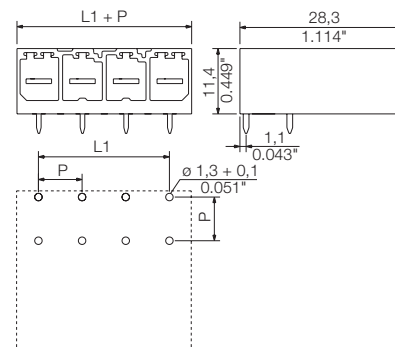
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = 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.

SV 7.62HP/./90G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	
Solid core H05(07) V-U	mm ²	
Stranded H07 V-R		
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, max.	A	41 41
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	630 630 1000
Rated impulse voltage	kV	6 6 6
UL / CUL (Use Group)	B C D	

Rated voltage	V	300 300 600
Rated current	A	40.5 40.5 5
AWG conductor	AWG	-

CSA (Use Group)	B C D	
Rated voltage	V	300 300 600
Rated current	A	35 35 5
AWG conductor	AWG	-

General data		
Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		tinned
Pin dimensions = d	mm	0.8 x 1.0
Solder eyelet Ø = D	mm	1.3
Solder eyelet Ø tolerance	mm	+ 0,1

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000



Ordering data

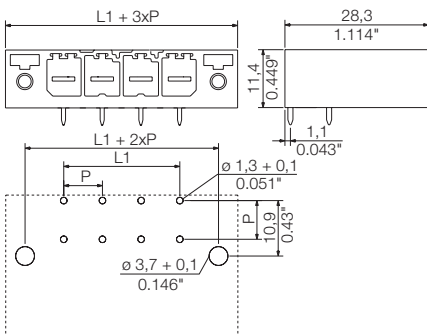
Solder pin length				3.5 mm
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1930270000
3	15.24	0.600	100	1930280000
4	22.86	0.900	100	1930290000
5	30.48	1.200	50	1930300000
6	38.10	1.500	50	1930310000
7	45.72	1.800	50	1930320000



SV 7.62HP../90F



Dimensioned drawing



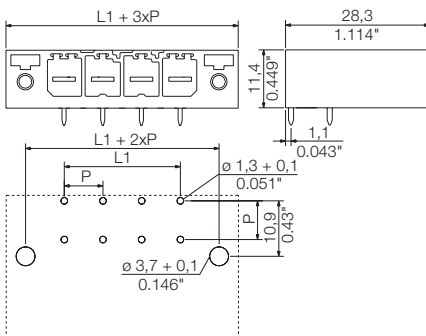
Ordering data

Solder pin length		3.5 mm			
Colour		Black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1930380000	
3	15.24	0.600	100	1930390000	
4	22.86	0.900	100	1930400000	
5	30.48	1.200	50	1930410000	
6	38.10	1.500	50	1930420000	
7	45.72	1.800	50	1930430000	

SV 7.62HP../90SF



Dimensioned drawing

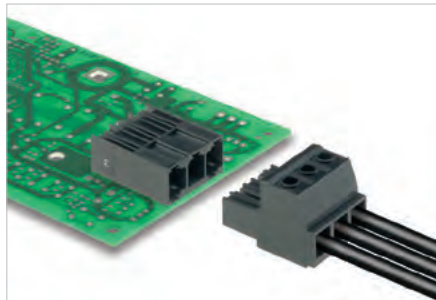


Ordering data

Solder pin length		3.5 mm			
Colour		Black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1930490000	
3	15.24	0.600	100	1930500000	
4	22.86	0.900	100	1930510000	
5	30.48	1.200	50	1930520000	
6	38.10	1.500	50	1930530000	
7	45.72	1.800	50	1930540000	

Connectors in 7.62 mm pitch Series BV/SV 7.62 - connects up to 6 mm²

SV 7.62HP/./90MF



Male header in 90° outlet direction for 400 V TNC (S) systems. UL approved for 600 V in accordance with UL 508 / UL 840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, unique coding capability and additional fastening mechanism.

- Available with a flange (F), screw flange (SF) and middle screw flange (MF).

Product data

IEC: 1000 V / 41 A
UL: 300 V / 40.5 A



For additional articles and information, refer to catalog.weidmueller.com

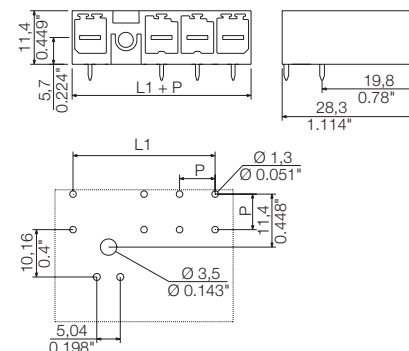
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SV 7.62HP/./90MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm ²		
Stranded H07 V-R			
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, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtolerance category		III	III
Pollution severity		3	2
Rated voltage	V	630	630
Rated impulse voltage	kV	6	6
UL / CUL (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	40.5	40.5
AWG conductor	AWG	-	-
CSA (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	35	35
AWG conductor	AWG	-	-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000

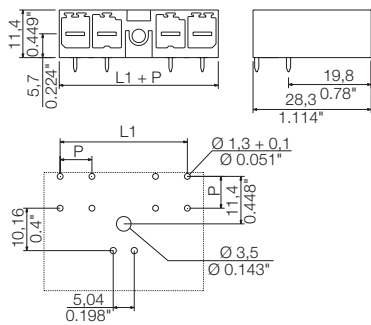
Ordering data

Solder pin length			3.5 mm	
Colour			Black	
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	78	1048390000
3	22.86	0.900	60	1048500000
4	30.48	1.200	48	1464270000
5	38.10	1.500	36	1464280000

SV 7.62HP../90MF3



Dimensioned drawing



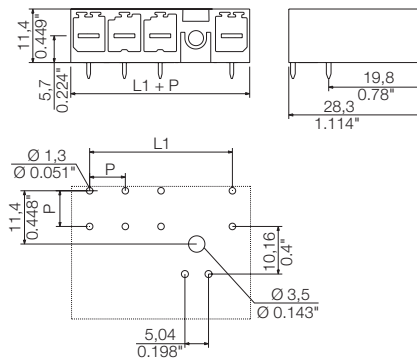
Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1 (inch)	Qty.	Order No.
3	22.86 0.900	60	1048490000
4	30.48 1.200	48	1048570000
5	38.10 1.500	36	1048690000

SV 7.62HP../90MF4



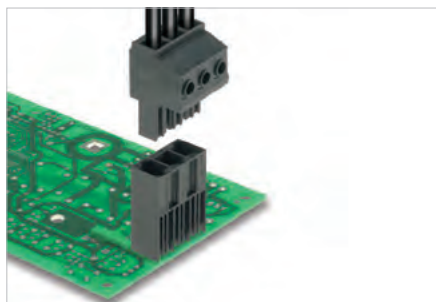
Dimensioned drawing



Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		7.62 mm	
Pol.	L1 (inch)	Qty.	Order No.
4	30.48 1.200	48	1464290000
5	38.10 1.500	36	1048680000
6	45.72 1.800	30	1048760000

SV 7.62HP../180



Male header in 180° outlet direction for 400 V TNC (S) systems. UL approved for 600 V in accordance with UL 508 / UL 840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, unique coding capability, additional fastening mechanism, and integrated positioning.

- Available with a flange (F), screw flange (SF) and middle screw flange (MF).

Product data

IEC: 1000 V / 41 A
UL: 300 V / 40.5 A



For additional articles and information, refer to catalog.weidmueller.com

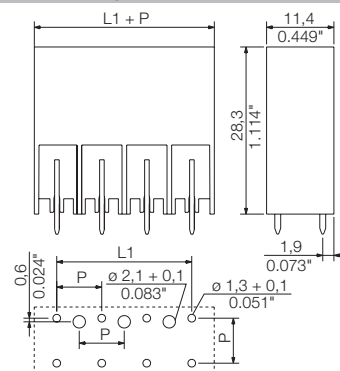
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = 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.

SV 7.62HP../180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm ²		
Stranded H07 V-R			
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, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III
Pollution severity		3	2
Rated voltage	V	630	630
Rated impulse voltage	kV	6	6
UL / CUL (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	40.5	40.5
AWG conductor	AWG	-	-
CSA (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	35	35
AWG conductor	AWG	-	-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Protection against twisting	
VDS180 SV7.62	1853940000

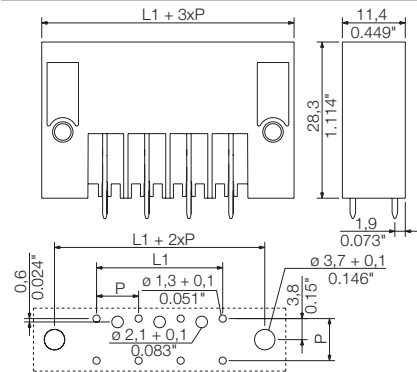
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1930600000
3	15.24	0.600	100	1930610000
4	22.86	0.900	100	1930620000
5	30.48	1.200	50	1930630000
6	38.10	1.500	50	1930640000
7	45.72	1.800	50	1930650000

SV 7.62HP../180F



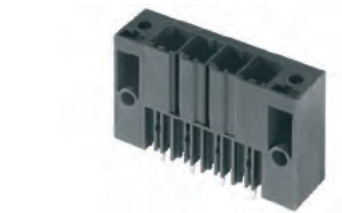
Dimensioned drawing



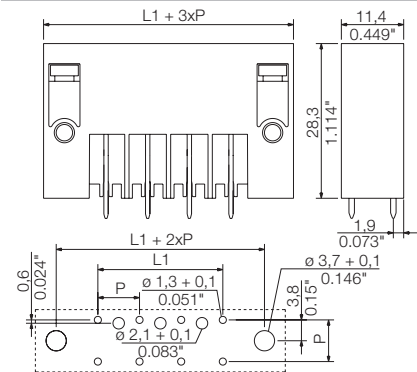
Ordering data

Solder pin length		3.5 mm			
Colour		Black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1930710000	
3	15.24	0.600	100	1930720000	
4	22.86	0.900	100	1930730000	
5	30.48	1.200	50	1930740000	
6	38.10	1.500	50	1930750000	
7	45.72	1.800	50	1930760000	

SV 7.62HP../180SF



Dimensioned drawing



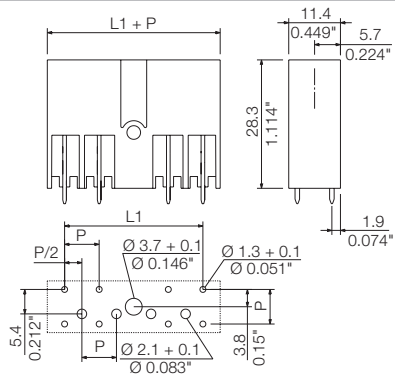
Ordering data

Solder pin length		3.5 mm			
Colour		Black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1930820000	
3	15.24	0.600	100	1930830000	
4	22.86	0.900	100	1930840000	
5	30.48	1.200	50	1930850000	
6	38.10	1.500	50	1930860000	
7	45.72	1.800	50	1930870000	

SV 7.62HP../180MF3



Dimensioned drawing



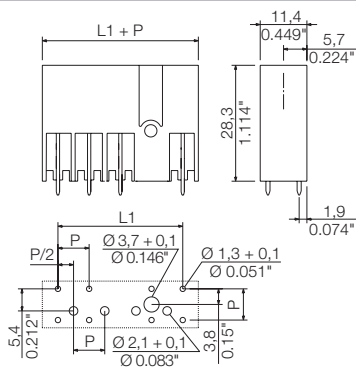
Ordering data

Solder pin length		3.5 mm			
Colour		Black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	60	1048420000	
4	30.48	1.200	48	1048530000	
5	38.10	1.500	36	1048590000	

SV 7.62HP../180MF4



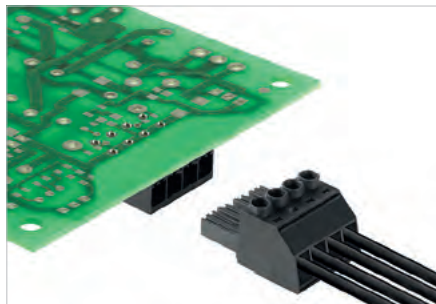
Dimensioned drawing



Ordering data

Solder pin length		3.5 mm			
Colour		Black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	48	1464330000	
5	38.10	1.500	36	1048600000	
6	45.72	1.800	30	1048720000	

SV 7.62HP/./270



Male header in 270° outlet direction for 400 V TNC (S) systems. UL approved for 600 V in accordance with UL 508 / UL 840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, unique coding capability and additional fastening mechanism.

- Available with a flange (F), screw flange (SF) and middle screw flange (MF).

Product data

IEC: 1000 V / 41 A
UL: 300 V / 40.5 A



For additional articles and information, refer to catalog.weidmueller.com

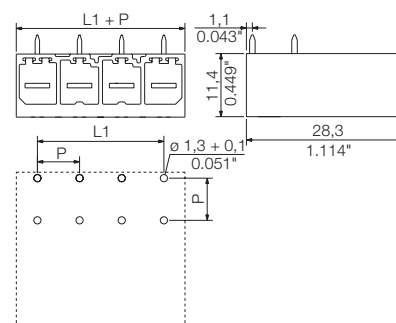
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = 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.

SV 7.62HP/./270G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	
Solid core H05(07) V-U	mm ²	
Stranded H07 V-R		
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, max.	A	41 41
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	
Overtolerance category		III III II
Pollution severity		3 2 2
Rated voltage	V	630 630 1000
Rated impulse voltage	kV	6 6 6
UL / CUL (Use Group)	B C D	

Rated voltage	V	300 300 600
Rated current	A	40.5 40.5 5
AWG conductor	AWG	-

CSA (Use Group)	B C D	
Rated voltage	V	300 300 600
Rated current	A	35 35 5
AWG conductor	AWG	-

General data		
Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		tinned
Pin dimensions = d	mm	0.8 x 1.0
Solder eyelet Ø = D	mm	1.3
Solder eyelet Ø tolerance	mm	+ 0,1

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP KO	1937590000



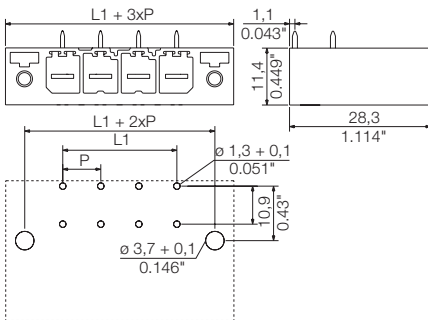
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1931260000
3	15.24	0.600	100	1931270000
4	22.86	0.900	100	1931280000
5	30.48	1.200	50	1931290000
6	38.10	1.500	50	1931300000
7	45.72	1.800	50	1931310000

SV 7.62HP.././270F



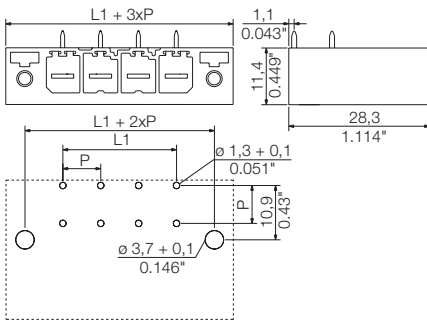
Dimensioned drawing



SV 7.62HP.././270SF



Dimensioned drawing



Ordering data

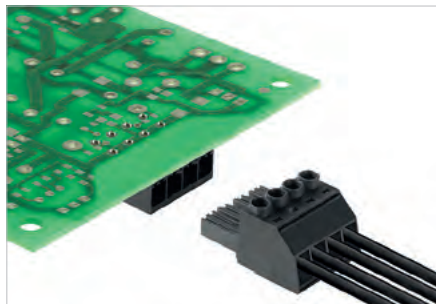
Solder pin length		3.5 mm			
Colour		Black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1931370000	
3	15.24	0.600	100	1931380000	
4	22.86	0.900	100	1931390000	
5	30.48	1.200	50	1931400000	
6	38.10	1.500	50	1931410000	
7	45.72	1.800	50	1931420000	

Ordering data

Solder pin length		3.5 mm			
Colour		Black			
Pitch		7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1931480000	
3	15.24	0.600	100	1931490000	
4	22.86	0.900	100	1931500000	
5	30.48	1.200	50	1931510000	
6	38.10	1.500	50	1931520000	
7	45.72	1.800	50	1931530000	

Connectors in 7.62 mm pitch Series BV/SV 7.62 - connects up to 6 mm²

SV 7.62HP/./270MF



Male header in 180° outlet direction for 400 V TNC (S) systems. UL approved for 600 V in accordance with UL 508 / UL 840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, unique coding capability and additional fastening mechanism.

- Middle flange available in positions 2, 3 and 4.

Product data

IEC: 1000 V / 41 A

UL: 300 V / 40.5 A



For additional articles and information, refer to catalog.weidmueller.com

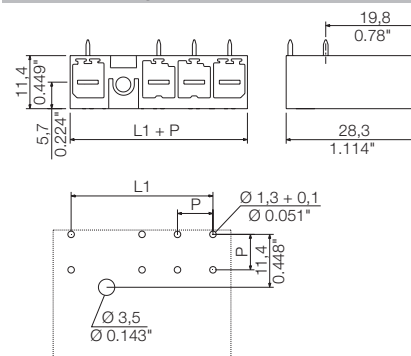
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SV 7.62HP/./270MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm ²		
Stranded H07 V-R			
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, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overtolerance category		III	III
Pollution severity		3	2
Rated voltage	V	630	630
Rated impulse voltage	kV	6	6
UL / CUL (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	40.5	40.5
AWG conductor	AWG	-	-
CSA (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	35	35
AWG conductor	AWG	-	-
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm	0.8 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000

Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	78	1048370000
3	22.86	0.900	60	1048450000
4	30.48	1.200	48	1464340000
5	38.10	1.500	36	1464350000

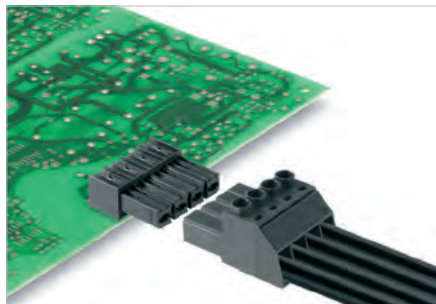
SV 7.62HP/.. /270MF4



Solder pin length				3.5 mm
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	48	1464360000
5	38.10	1.500	36	1048650000
6	45.72	1.800	30	1048740000

Connectors in 7.62 mm pitch Series BV/SV 7.62 - connects up to 6 mm²

SVZ 7.62HP../180



Male plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems.
Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F) and screw flange (SF).

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmueller.com

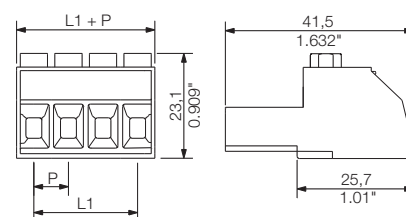
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = 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.

SVZ 7.62HP../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.2...6	
Solid core H05(07) V-U	mm ²	0.2...6	
Stranded H07 V-R			
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...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
According to norm		DIN 5264	
Tightening torque range	Nm	0.5...0.6	
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overtolerance category		III	III
Pollution severity		3	2
Rated voltage	V	800	1000
Rated impulse voltage	kV	8	8
UL / CUL (Use Group)	B	C	D
Rated voltage	V	600	600
Rated current	A	35	35
AWG conductor	AWG	24-10	
CSA (Use Group)	B	C	D
Rated voltage	V	600	600
Rated current	A	35	35
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

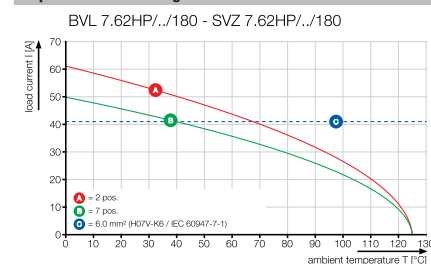
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Strain relief	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver	
SDS 0.8x4.0x125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1931620000
3	15.24	0.600	100	1931630000
4	22.86	0.900	100	1931640000
5	30.48	1.200	50	1931660000
6	38.10	1.500	50	1931670000
7	45.72	1.800	50	1931680000

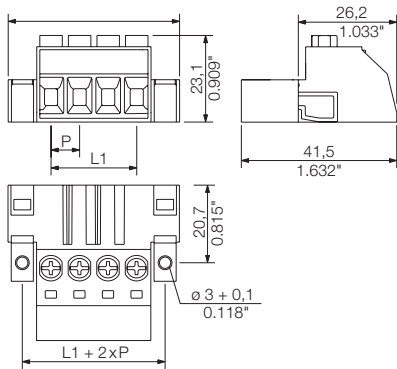
Representative deratings curve



SVZ 7.62HP../180F



Dimensioned drawing



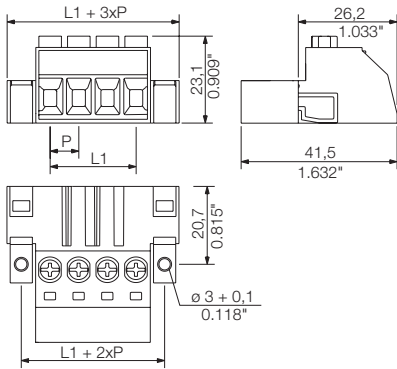
Ordering data

Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1931740000	
3	15.24	0.600	100	1931760000	
4	22.86	0.900	100	1931820000	
5	30.48	1.200	50	1931840000	
6	38.10	1.500	50	1931850000	
7	45.72	1.800	50	1931860000	

SVZ 7.62HP../180SF



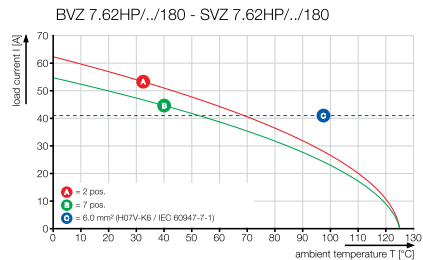
Dimensioned drawing



Ordering data

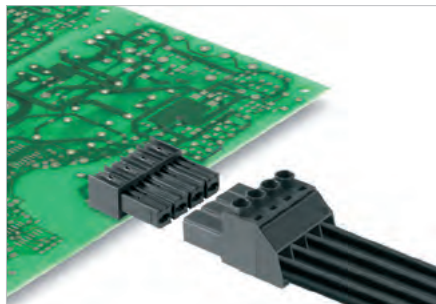
Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1931960000	
3	15.24	0.600	100	1931970000	
4	22.86	0.900	100	1931980000	
5	30.48	1.200	50	1931990000	
6	38.10	1.500	50	1932000000	
7	45.72	1.800	50	1932010000	

Additional deratings curves



Connectors in 7.62 mm pitch Series BV/SV 7.62 - connects up to 6 mm²

SVZ 7.62HP../180FC



Male plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems.
Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (FL) and a screw flange (SFC).

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmueller.com

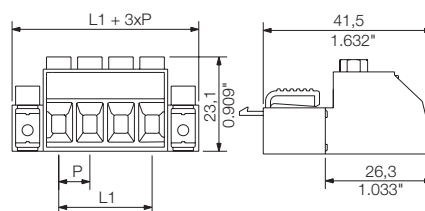
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = 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.

SVZ 7.62HP../180FC



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.2...6
Solid core H05(07) V-U	mm ²	0.2...6
Stranded H07 V-R		
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...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264
Tightening torque range	Nm	0.5...0.6
Rated current, max.	A	41 41
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	6
Overvoltage category	III	III II
Pollution severity	3	2 2
Rated voltage	V	800 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-10
CSA (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-10
General data		
Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		tinned
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

Accessories

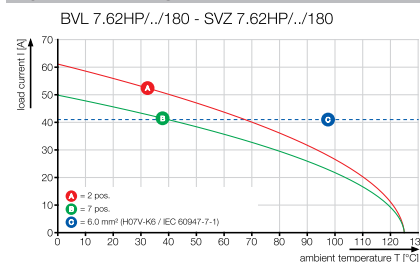
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Strain relief	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver	
SDS 0.8X4.0X125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1950880000
3	15.24	0.600	100	1950890000
4	22.86	0.900	100	1950900000
5	30.48	1.200	50	1950910000
6	38.10	1.500	50	1950920000
7	45.72	1.800	50	1950930000

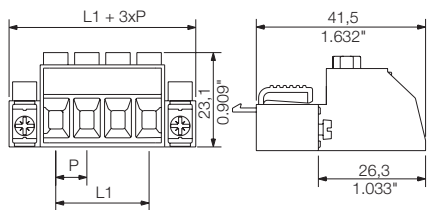
Representative deratings curve



SVZ 7.62HP../180SFC



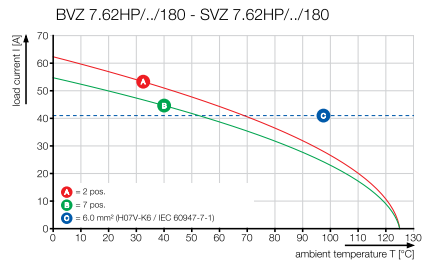
Dimensioned drawing



Ordering data

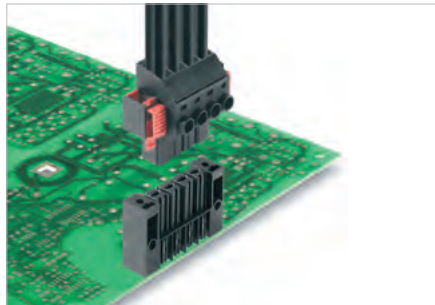
Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1950990000	
3	15.24	0.600	100	1951000000	
4	22.86	0.900	100	1951010000	
5	30.48	1.200	50	1951020000	
6	38.10	1.500	50	1951030000	
7	45.72	1.800	50	1951050000	

Additional deratings curves



Connectors in 7.62 mm pitch Series BV/SV 7.62 - connects up to 6 mm²

SVZ 7.62HP/./180FI



Male plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages for board-to-wire connections. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

Variants: flange and screw flange mountings.

- Available with a flange (FI) and a screw flange (SFI).

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmueller.com

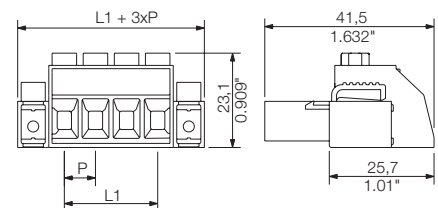
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = 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.

SVZ 7.62HP/./180FI



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.2...6
Solid core H05(07) V-U	mm ²	0.2...6
Stranded H07 V-R		
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...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264
Tightening torque range	Nm	0.5...0.6
Rated current, max.	A	41 41
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	6
Overvoltage category	III	III II
Pollution severity	3	2 2
Rated voltage	V	800 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)	B C D	

Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-10
CSA (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-10

General data

Type of insulation material	PA GF
UL 94 flammability rating	V-0
Contact base material	Cu-Leg
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

Accessories

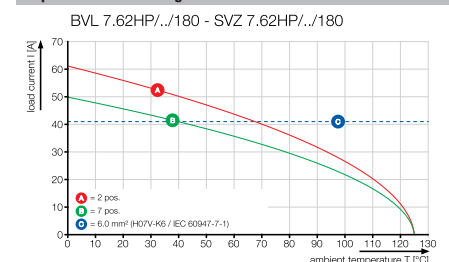
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Strain relief	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver	
SDS 0.8x4.0x125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

Ordering data

Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1932070000
3	15.24	0.600	100	1932080000
4	22.86	0.900	100	1932090000
5	30.48	1.200	50	1932100000
6	38.10	1.500	50	1932110000
7	45.72	1.800	50	1932120000

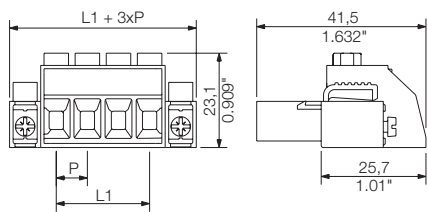
Representative deratings curve



SVZ 7.62HP../180SFI



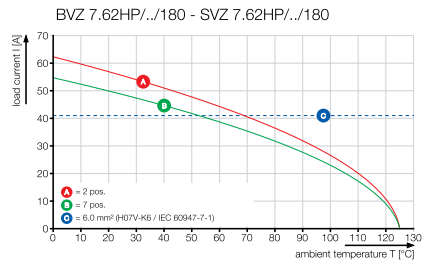
Dimensioned drawing



Ordering data

Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1932180000	
3	15.24	0.600	100	1932190000	
4	22.86	0.900	100	1932200000	
5	30.48	1.200	50	1932210000	
6	38.10	1.500	50	1932220000	
7	45.72	1.800	50	1932230000	

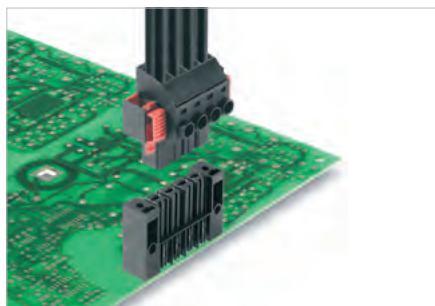
Additional deratings curves



Connectors in 7.62 mm pitch

Series BV/SV 7.62 - connects up to 6 mm²

SVZ 7.62HP../180SH



Male plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability. Available with shield in three different orientations.

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmueller.com

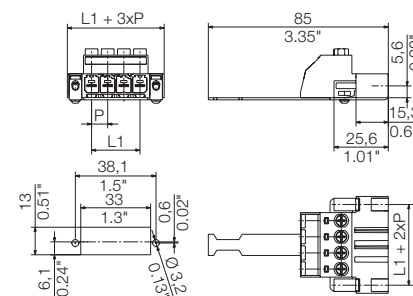
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = 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.

SVZ 7.62HP../180SH180



Dimensioned drawing



FRONT PLATE CUT-OUT

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.2...6
Solid core H05(07) V-U	mm ²	0.2...6
Stranded H07 V-R		
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...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264
Tightening torque range	Nm	0.5...0.6
Rated current, max.	A	41 41
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	6
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	800 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)	B C D	

Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-10
CSA (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-10

General data

Type of insulation material	PA GF
UL 94 flammability rating	V-0
Contact base material	Cu-Leg
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

Accessories

Note: Refer to the Accessories chapter for additional accessories.

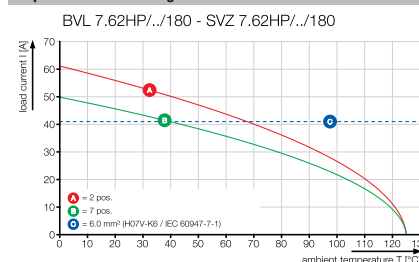
Coding	Order No.
BV/SV 7.62HP K0	1937590000
Screwdriver	
SDS 0.8X4.0X125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

Ordering data

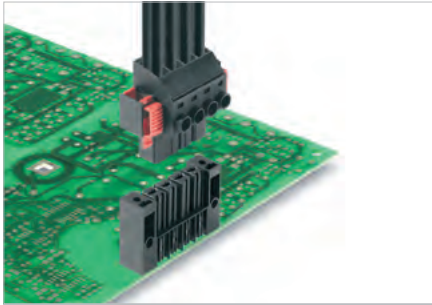
Solder pin length

Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1932460000
4	22.86	0.900	25	1932470000
5	30.48	1.200	25	1932480000
6	38.10	1.500	25	1932490000

Representative deratings curve



SVZ 7.62HP../180SH C



Male plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmueller.com

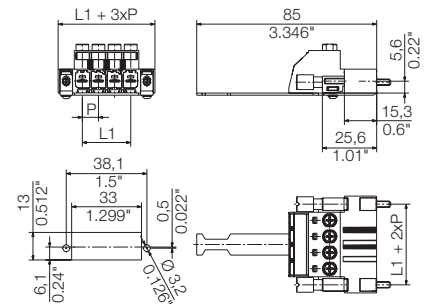
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = 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.

SVZ 7.62HP../180SH180C



Dimensioned drawing



FRONT PLATE CUT-OUT

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.2...6
Solid core H05(07) V-U	mm ²	0.2...6
Stranded H07 V-R		
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...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264
Tightening torque range	Nm	0.5...0.6
Rated current, max.	A	41 41
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	6
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	800 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-10
CSA (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-10
General data		
Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		tinned
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

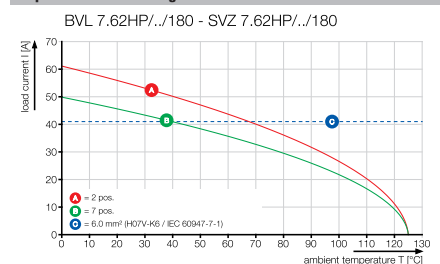
Coding	Order No.
BV/SV 7.62HP K0	1937590000
Screwdriver	
SDS 0.8X4.0X125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

Ordering data

Solder pin length

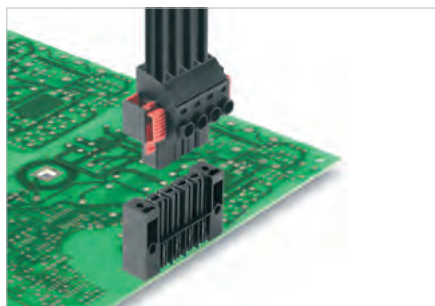
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1951150000
4	22.86	0.900	25	1951160000
5	30.48	1.200	25	1951170000
6	38.10	1.500	25	1951180000

Representative deratings curve



Connectors in 7.62 mm pitch Series BV/SV 7.62 - connects up to 6 mm²

SVZ 7.62HP../180SH I



Male plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages for board-to-wire connections. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmueller.com

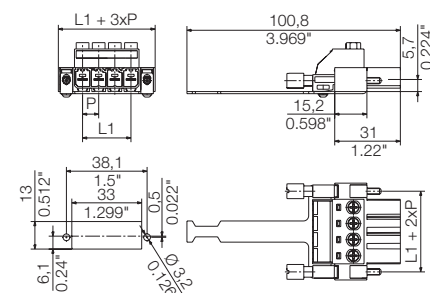
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = 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.

SVZ 7.62HP../180SH180I



Dimensioned drawing



FRONT PLATE CUT-OUT

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.2...6
Solid core H05(07) V-U	mm ²	0.2...6
Stranded H07 V-R		
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...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264
Tightening torque range	Nm	0.5...0.6

Rated current, max.

	A	41	41
At ambient temperature		20 °C	40 °C
For conductor cross-section	mm ²	6	

Overvoltage category		III	III	II
Pollution severity		3	2	2

Rated voltage

	V	800	1000	1000
--	---	-----	------	------

Rated impulse voltage

	kV	8	8	6
--	----	---	---	---

UL / CUL (Use Group)

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

Rated voltage

	V	600	600	600
--	---	-----	-----	-----

Rated current

	A	35	35	5
--	---	----	----	---

AWG conductor

	AWG	24-10		
--	-----	-------	--	--

CSA (Use Group)

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

General data

Type of insulation material		PA GF		
-----------------------------	--	-------	--	--

UL 94 flammability rating

		V-0		
--	--	-----	--	--

Contact base material

		Cu-Leg		
--	--	--------	--	--

Material of contact surface

		tinned		
--	--	--------	--	--

Pin dimensions = d

	mm			
--	----	--	--	--

Solder eyelet Ø = D

	mm			
--	----	--	--	--

Solder eyelet Ø tolerance

	mm			
--	----	--	--	--

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Screwdriver	
SDS 0.8X4.0X125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

Ordering data

Solder pin length

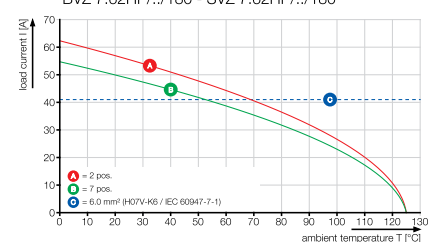
Colour	Black
--------	-------

Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1932500000
4	22.86	0.900	25	1932510000
5	30.48	1.200	25	1932520000
6	38.10	1.500	25	1932530000

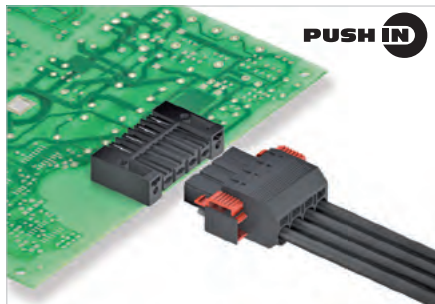
Representative deratings curve

BVZ 7.62HP../180 - SVZ 7.62HP../180



Connectors in 7.62 mm pitch Series BV/SV 7.62 - connects up to 6 mm²

SVF 7.62HP../180



Male plug in 180° outlet direction and "PUSH IN" spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F) and a screw flange (SF).

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmuller.com

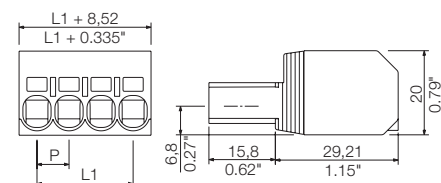
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = 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.

SVF 7.62HP../180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.5...10
Solid core H05(07) V-U	mm ²	0.5...10
Stranded H07 V-R		...10
Flexible H05(07) V-K	mm ²	0.5...
Flexible with ferrule	mm ²	1.5...4
Ferrule with plastic collar	mm ²	1.5...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264

Tightening torque range	Nm	
Rated current, max.	A	41 41
At ambient temperature	20°C	40°C

For conductor cross-section	mm ²	6
Overvoltage category		III III II
Pollution severity		3 2 2

Rated voltage	V	800 1000 1000
Rated impulse voltage	kV	8 8 6

UL / CUL (Use Group)

Rated voltage	V	600 600 600
Rated current	A	35 35 5

AWG conductor

AWG conductor	AWG	24-10
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CSA (Use Group)

Rated voltage	V	600 600 600
Rated current	A	35 35 5

General data

Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		tinned
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

Accessories

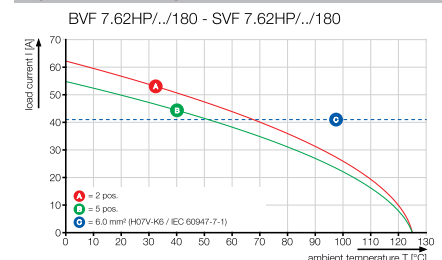
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Screwdriver	
SDS 0.8X4.0X125	9009020000
Crimping tool	
PZ 6/5	9011460000

Ordering data

Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	95	1060830000
3	15.24	0.600	65	1060840000
4	22.86	0.900	45	1060850000
5	30.48	1.200	40	1060870000
6	38.10	1.500	30	1060880000

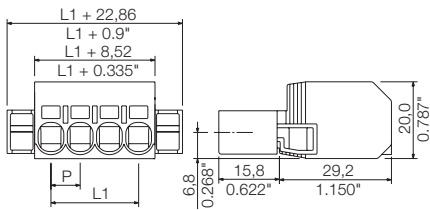
Representative deratings curve



SVF 7.62HP../180F



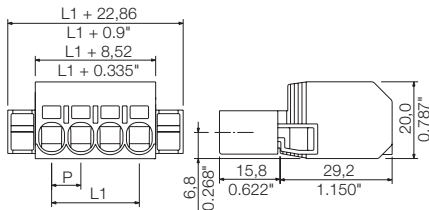
Dimensioned drawing



SVF 7.62HP../180SF



Dimensioned drawing



Ordering data

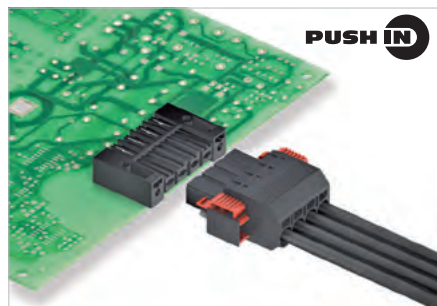
Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	50	1060900000	
3	15.24	0.600	40	1060910000	
4	22.86	0.900	30	1060920000	
5	30.48	1.200	25	1060930000	

Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	50	1060950000	
3	15.24	0.600	40	1060970000	
4	22.86	0.900	30	1060980000	
5	30.48	1.200	25	1061000000	

Connectors in 7.62 mm pitch Series BV/SV 7.62 - connects up to 6 mm²

SVF 7.62HP/./180 I



Male plug in 180° outlet direction and "PUSH IN" spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages for board-to-wire connections. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (FI) and a screw flange (SFI).

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmueller.com

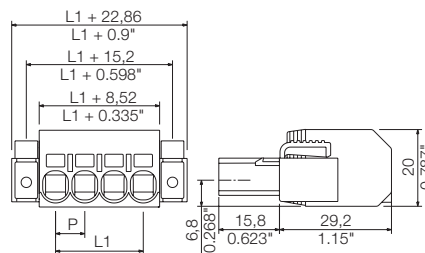
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = 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.

SVF 7.62HP/./180FI



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.5...10
Solid core H05(07) V-U	mm²	0.5...10
Stranded H07 V-R		...10
Flexible H05(07) V-K	mm ²	0.5...
Flexible with ferrule	mm ²	1.5...4
Ferrule with plastic collar	mm ²	1.5...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5

According to norm

Tightening torque range	Nm		
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overvoltage category		III	II
Pollution severity		3	2
Rated voltage	V	800	1000
Rated impulse voltage	kV	8	6
UL / CUL (Use Group)	B	C	D

Rated voltage	V	600	600
Rated current	A	35	5
AWG conductor	AWG	24-10	
CSA (Use Group)	B	C	D
Rated voltage	V	600	600
Rated current	A	35	5
AWG conductor	AWG	24-10	

General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

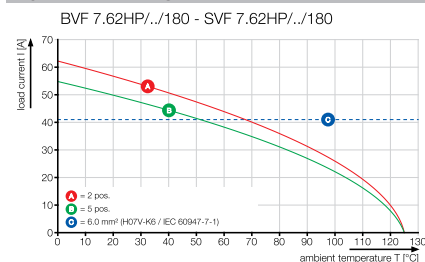
Coding	Order No.
BV/SV 7.62HP K0	1937590000
Screwdriver	
SDS 0.8X4.0X125	9009020000
Crimping tool	
PZ 6/5	9011460000

Ordering data

Solder pin length

Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	50	1124750000
3	15.24	0.600	40	1124760000
4	22.86	0.900	30	1124770000
5	30.48	1.200	25	1124780000

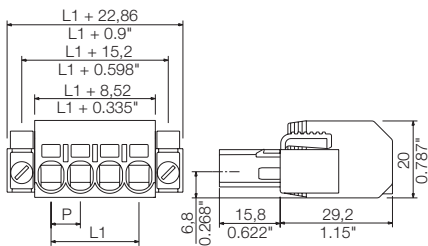
Representative deratings curve



SVF 7.62HP/./180SFI



Dimensioned drawing



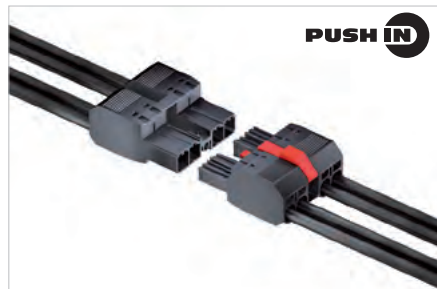
Ordering data

Solder pin length				
Colour			Black	
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	50	1124810000
3	15.24	0.600	40	1124820000
4	22.86	0.900	30	1124830000
5	30.48	1.200	25	1124840000

Connectors in 7.62 mm pitch

Series BV/SV 7.62 - connects up to 6 mm²

SVF 7.62HP../180MF



PUSH IN

Male plug in 180° outlet direction with "PUSH IN" spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange is available in positions 2, 3 and 4.

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 10

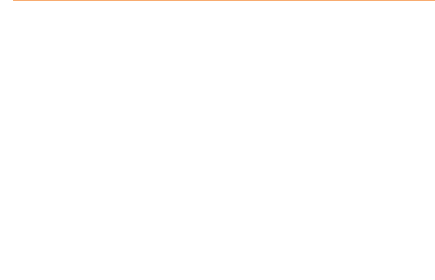


For additional articles and information, refer to catalog.weidmueller.com

Note:

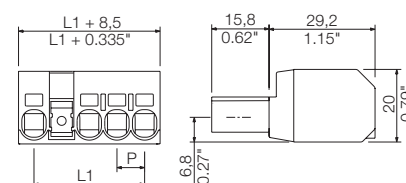
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SVF 7.62HP../180MF2



UL 600 V

Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.5...10
Solid core H05(07) V-U	mm ²	0.5...10
Stranded H07 V-R		...10
Flexible H05(07) V-K	mm ²	0.5...
Flexible with ferrule	mm ²	1.5...4
Ferrule with plastic collar	mm ²	1.5...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264
Tightening torque range	Nm	
Rated current, max.	A	41 41
At ambient temperature		20°C 40°C

For conductor cross-section	mm ²	
Overvoltage category		III III II
Pollution severity		3 2 2

Rated voltage	V	800 1000 1000
Rated impulse voltage	kV	8 8 6

UL / CUL (Use Group)

Rated voltage	V	600 600 600
Rated current	A	35 35 5

AWG conductor

AWG conductor	AWG	24-10
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CSA (Use Group)

Rated voltage	V	600 600 600
Rated current	A	35 35 5

General data

Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		tinned
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Screwdriver	
SDS 0.8X4.0X125	9009020000
Crimping tool	
PZ 6/5	9011460000

Ordering data

Solder pin length

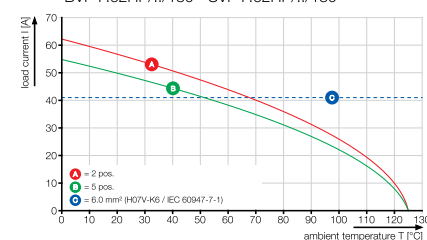
Colour	Black
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Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	65	1061020000
3	22.86	0.900	50	1061030000
4	30.48	1.200	40	1430010000
5	38.10	1.500	30	1430020000

Representative deratings curve

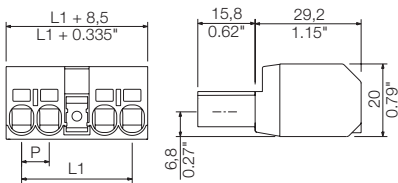
BVF 7.62HP../180 - SVF 7.62HP../180



SVF 7.62HP../180MF3



Dimensioned drawing



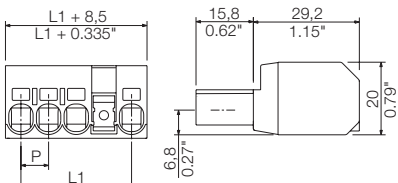
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	50	1061040000	
4	30.48	1.200	40	1061050000	
5	38.10	1.500	30	1061070000	

SVF 7.62HP../180MF4



Dimensioned drawing



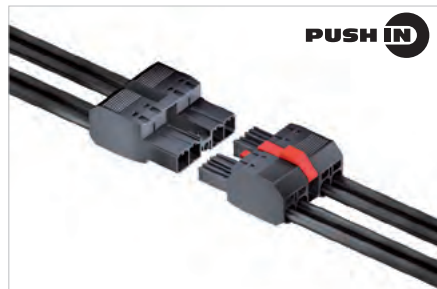
Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	10	1430030000	
5	38.10	1.500	30	1061080000	
6	45.72	1.800	25	1061100000	

Connectors in 7.62 mm pitch

Series BV/SV 7.62 - connects up to 6 mm²

SVF 7.62HP../180MSF



PUSH IN

Male plug in 180° outlet direction with "PUSH IN" spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange is available in positions 2, 3 and 4.

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 10

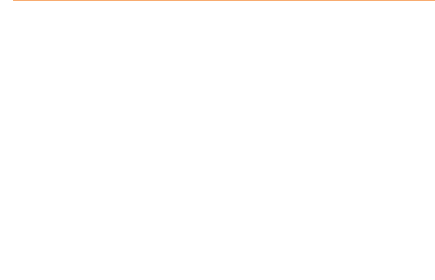


For additional articles and information, refer to catalog.weidmueller.com

Note:

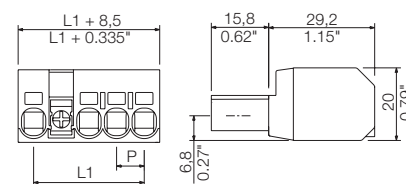
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MF2 and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SVF 7.62HP../180MSF2



UL 600 V

Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.5...10
Solid core H05(07) V-U	mm²	0.5...10
Stranded H07 V-R		...10
Flexible H05(07) V-K	mm ²	0.5...
Flexible with ferrule	mm ²	1.5...4
Ferrule with plastic collar	mm ²	1.5...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264

Tightening torque range	Nm	
Rated current, max.	A	41 41
At ambient temperature	20°C	40°C

For conductor cross-section	mm ²	
Overvoltage category		III III II
Pollution severity		3 2 2

Rated voltage	V	800 1000 1000
Rated impulse voltage	kV	8 8 6

UL / CUL (Use Group)

Rated voltage	V	600 600 600
Rated current	A	35 35 5

AWG conductor

AWG conductor	AWG	24-10
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CSA (Use Group)

Rated voltage	V	600 600 600
Rated current	A	35 35 5

General data

Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		tinned
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Crimping tool		
	PZ 6/5	9011460000

Ordering data

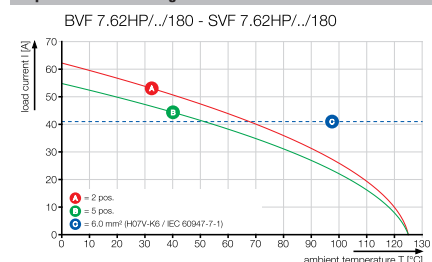
Solder pin length

Colour	Black
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Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	65	1061110000
3	22.86	0.900	50	1061120000
4	30.48	1.200	40	1430060000
5	38.10	1.500	30	1430070000

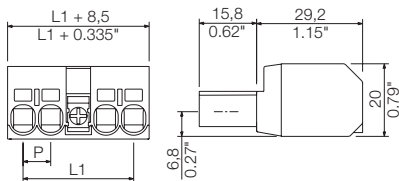
Representative deratings curve



SVF 7.62HP../180MSF3



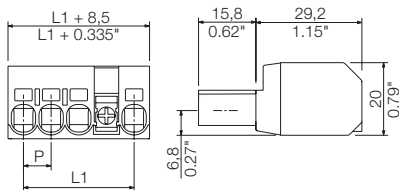
Dimensioned drawing



SVF 7.62HP../180MSF4



Dimensioned drawing



Ordering data

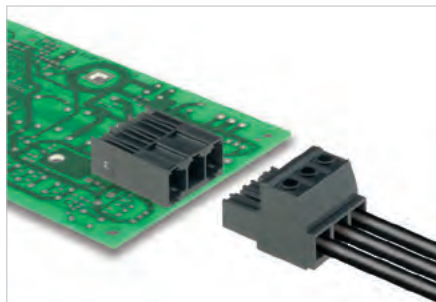
Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	50	1061130000	
4	30.48	1.200	40	1061140000	
5	38.10	1.500	30	1061150000	

Ordering data

Solder pin length					
Colour					Black
Pitch 7.62 mm					
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	40	1430080000	
5	38.10	1.500	30	1061170000	
6	45.72	1.800	25	1061180000	

Connectors in 7.62 mm pitch Series BV/SV 7.62 - connects up to 6 mm²

BVZ 7.62HP../180



Female plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F), screw flange (SF) and clip on screw flange (SFC)

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 40.5 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmueller.com

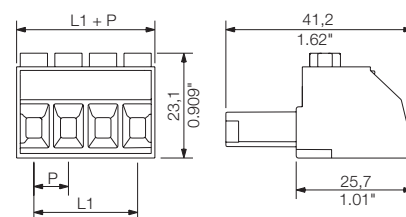
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = 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.

BVZ 7.62HP../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.2...6
Solid core H05(07) V-U	mm ²	0.2...6
Stranded H07 V-R		
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...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264
Tightening torque range	Nm	0.5...0.6
Rated current, max.	A	41 41
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	6
Overvoltage category	III	III II
Pollution severity	3	2 2
Rated voltage	V	800 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)	B C D	

Rated voltage	V	600 600 600
Rated current	A	40.5 40.5 5
AWG conductor	AWG	24-8
CSA (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-10

General data

Type of insulation material	PA GF
UL 94 flammability rating	V-0
Contact base material	Cu-Leg
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

Accessories

Note: Refer to the Accessories chapter for additional accessories.

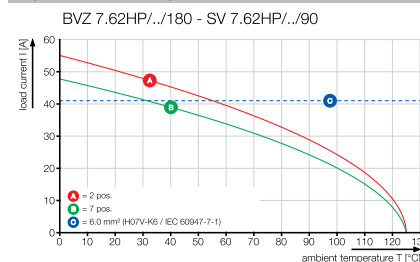
Coding	Order No.
BV/SV 7.62HP K0	1937590000
Strain relief	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver	
SDS 0.8X4.0X125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

Ordering data

Solder pin length

Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1929930000
3	15.24	0.600	100	1929940000
4	22.86	0.900	100	1929950000
5	30.48	1.200	50	1929960000
6	38.10	1.500	50	1929970000
7	45.72	1.800	50	1929980000

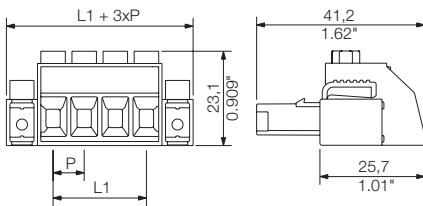
Representative deratings curve



BVZ 7.62HP../180F



Dimensioned drawing



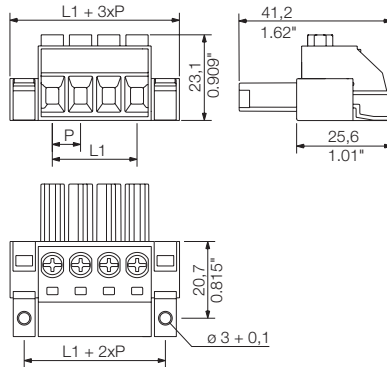
Ordering data

Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1930050000	
3	15.24	0.600	100	1930060000	
4	22.86	0.900	100	1930070000	
5	30.48	1.200	50	1930080000	
6	38.10	1.500	50	1930090000	
7	45.72	1.800	50	1930100000	

BVZ 7.62HP../180SF



Dimensioned drawing



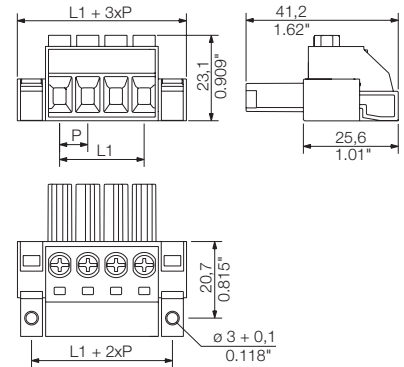
Ordering data

Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1930160000	
3	15.24	0.600	100	1930170000	
4	22.86	0.900	100	1930180000	
5	30.48	1.200	50	1930190000	
6	38.10	1.500	50	1930200000	
7	45.72	1.800	50	1930210000	

BVZ 7.62HP../180SFC



Dimensioned drawing

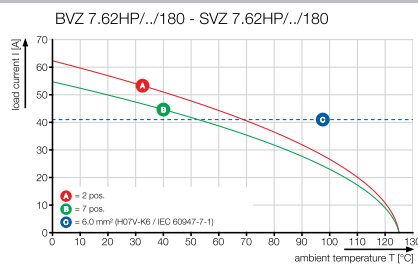
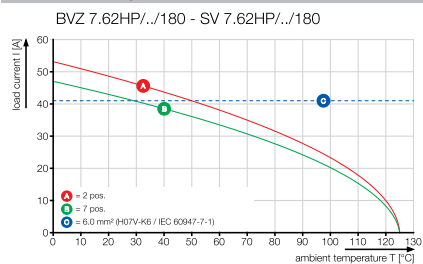


Ordering data

Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	100	1929740000	
3	15.24	0.600	100	1929750000	
4	22.86	0.900	100	1929760000	
5	30.48	1.200	50	1929770000	
6	38.10	1.500	50	1929780000	
7	45.72	1.800	50	1929790000	

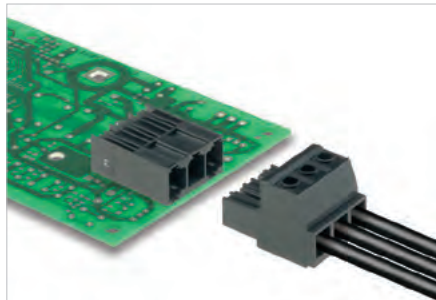
Also available with a clip-on flange (...180FC).

Additional deratings curves



Connectors in 7.62 mm pitch Series BV/SV 7.62 - connects up to 6 mm²

BVZ 7.62HP../180SH



Female plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 40.5 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmueller.com

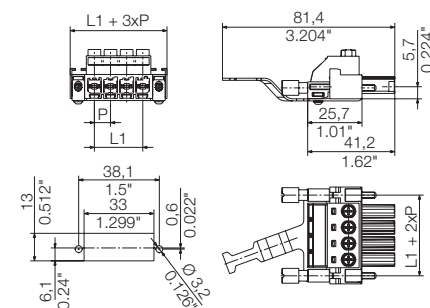
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = 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.

BVZ 7.62HP../180SH160



Dimensioned drawing



FRONT PLATE CUT-OUT

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.2...6
Solid core H05(07) V-U	mm ²	0.2...6
Stranded H07 V-R		
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...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264
Tightening torque range	Nm	0.5...0.6
Rated current, max.	A	41 41
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	6
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	800 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)	B C D	

Rated voltage	V	600 600 600
Rated current	A	40.5 40.5 5
AWG conductor	AWG	24-8
CSA (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-10

General data

Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		tinned
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

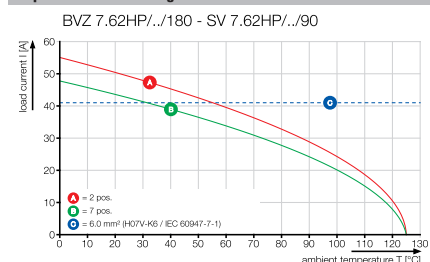
Coding	Order No.
BV/SV 7.62HP K0	1937590000
Strain relief	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver	
SDS 0.8x4.0x125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

Ordering data

Solder pin length

Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1929850000
4	22.86	0.900	25	1929860000
5	30.48	1.200	25	1929870000
6	38.10	1.500	25	1929880000

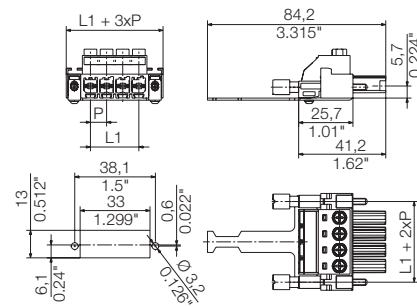
Representative deratings curve



BVZ 7.62HP/./180SH180



Dimensioned drawing



FRONT PLATE CUT-OUT

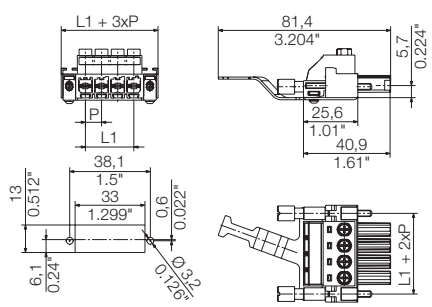
Ordering data

Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
3	15.24	0.600	50	1933340000	
4	22.86	0.900	25	1933350000	
5	30.48	1.200	25	1933360000	
6	38.10	1.500	25	1933370000	

BVZ 7.62HP/./180SH200



Dimensioned drawing

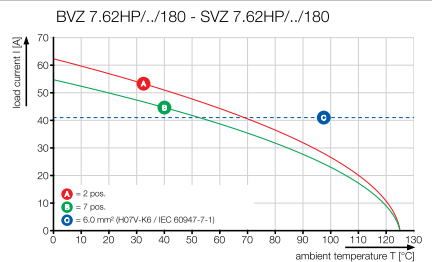
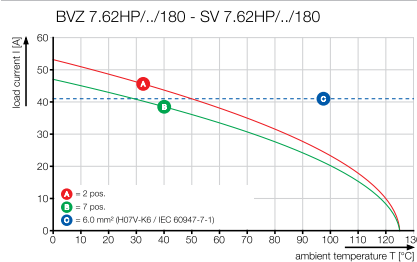


FRONT PLATE CUT-OUT

Ordering data

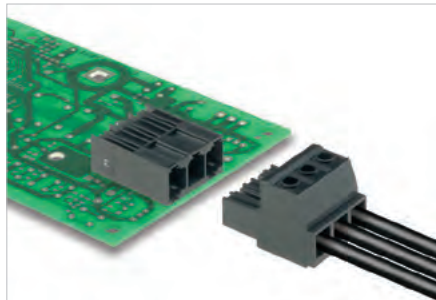
Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
3	15.24	0.600	50	1933430000	
4	22.86	0.900	25	1933440000	
5	30.48	1.200	25	1933450000	
6	38.10	1.500	25	1933460000	

Additional deratings curves



Connectors in 7.62 mm pitch Series BV/SV 7.62 - connects up to 6 mm²

BVZ 7.62HP../180SH C



Female plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 40.5 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmueller.com

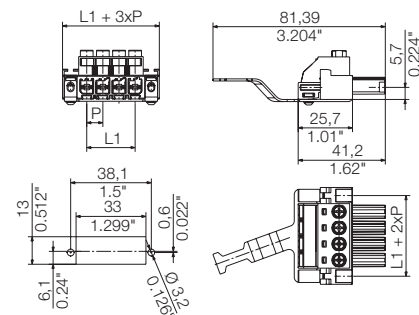
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = 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.

BVZ 7.62HP../180SH160C



Dimensioned drawing



FRONT PLATE CUT-OUT

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.2...6
Solid core H05(07) V-U	mm ²	0.2...6
Stranded H07 V-R		
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...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264
Tightening torque range	Nm	0.5...0.6
Rated current, max.	A	41 41
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	6
Overvoltage category	III	III II
Pollution severity	3	2 2
Rated voltage	V	800 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	40.5 40.5 5
AWG conductor	AWG	24-8
CSA (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-10
General data		
Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		tinned
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

Accessories

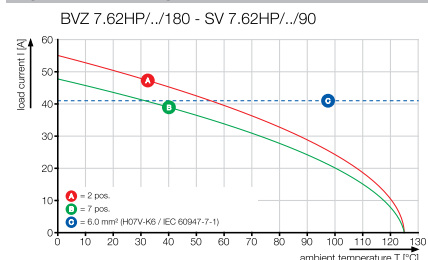
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Strain relief	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver	
SDS 0.8X4.0X125	9009020000
Crosshead screwdriver	
SDK PH1	9008480000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1929890000
4	22.86	0.900	25	1929900000
5	30.48	1.200	25	1929910000
6	38.10	1.500	25	1929920000

Representative deratings curve



BVZ 7.62HP../180SH180C

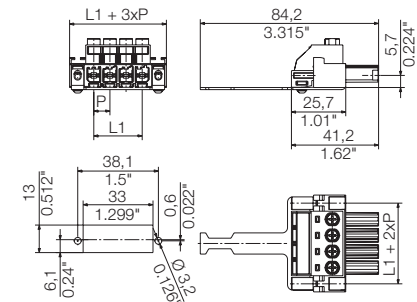
BVZ 7.62HP../180SH200C



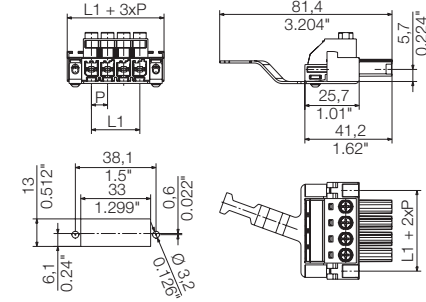
Dimensioned drawing



Dimensioned drawing



FRONT PLATE CUT-OUT



FRONT PLATE CUT-OUT

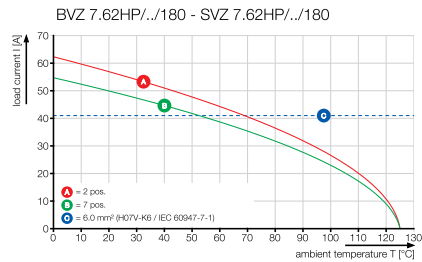
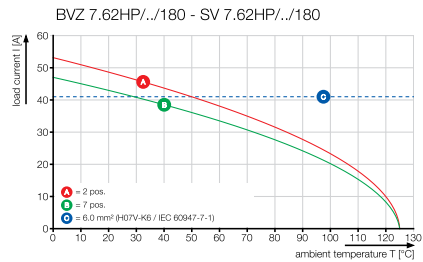
Ordering data

Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1933380000
4	22.86	0.900	25	1933390000
5	30.48	1.200	25	1933400000
6	38.10	1.500	25	1933410000

Ordering data

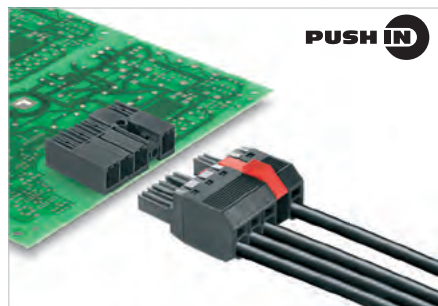
Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1933470000
4	22.86	0.900	25	1933480000
5	30.48	1.200	25	1933490000
6	38.10	1.500	25	1933500000

Additional deratings curves



Connectors in 7.62 mm pitch Series BV/SV 7.62 - connects up to 6 mm²

BVF 7.62HP../180



Female plug in 180° outlet direction with "PUSH IN" spring connection for TNC (S) systems. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F), screw flange (SF) and middle flange (MF).

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmueller.com

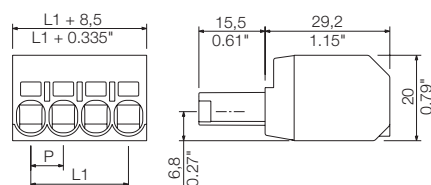
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = 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.

BVF 7.62HP../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.5...10
Solid core H05(07) V-U	mm ²	0.5...10
Stranded H07 V-R		
Flexible H05(07) V-K	mm ²	0.5...10
Flexible with ferrule	mm ²	1.5...6
Ferrule with plastic collar	mm ²	1.5...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264

Tightening torque range

Rated current, max.

At ambient temperature

For conductor cross-section

Overvoltage category

Pollution severity

Rated voltage

Rated impulse voltage

UL / CUL (Use Group)

Rated voltage

Rated current

AWG conductor

CSA (Use Group)

Rated voltage

Rated current

AWG conductor

General data

Type of insulation material

UL 94 flammability rating

Contact base material

Material of contact surface

Pin dimensions = d

Solder eyelet Ø = D

Solder eyelet Ø tolerance

Accessories

Note: Refer to the Accessories chapter for additional accessories.

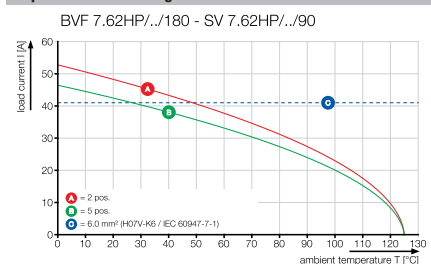
Coding	Order No.
BV/SV 7.62HP K0	1937590000
Screwdriver	
SDS 0.8X4.0X125	9009020000
Crimping tool	
PZ 6/5	9011460000

Ordering data

Solder pin length

Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	95	1060390000
3	15.24	0.600	65	1060400000
4	22.86	0.900	45	1060410000
5	30.48	1.200	40	1060420000

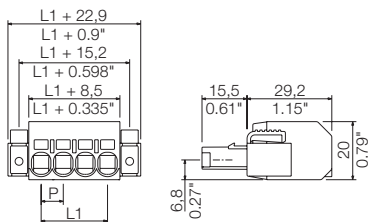
Representative deratings curve



BVF 7.62HP../180F



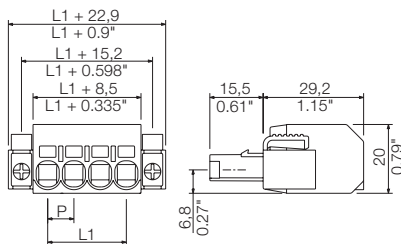
Dimensioned drawing



BVF 7.62HP../180SF



Dimensioned drawing



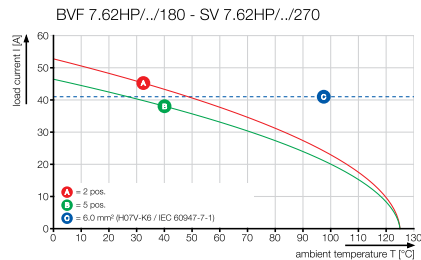
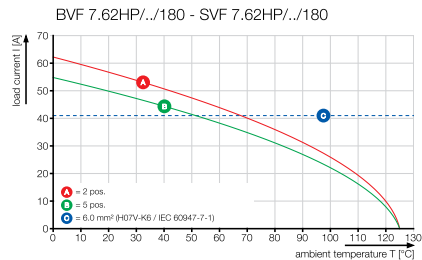
Ordering data

Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	50	1060440000	
3	15.24	0.600	40	1060450000	
4	22.86	0.900	30	1060470000	
5	30.48	1.200	25	1060480000	
6	38.10	1.500	25	1060490000	

Ordering data

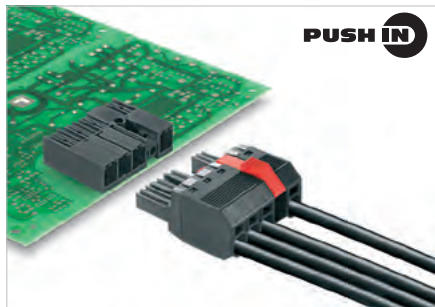
Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	7.62	0.300	50	1060500000	
3	15.24	0.600	40	1060510000	
4	22.86	0.900	30	1060520000	
5	30.48	1.200	25	1060530000	
6	38.10	1.500	25	1060540000	

Additional deratings curves



Connectors in 7.62 mm pitch Series BV/SV 7.62 - connects up to 6 mm²

BVF 7.62HP../180MF



PUSH IN

Female plug in 180° outlet direction with "PUSH IN" spring connection for TNC (S) systems. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange available in positions 2, 3 and 4.

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmueller.com

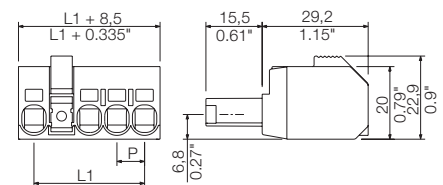
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

BVF 7.62HP../180MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.5...10
Solid core H05(07) V-U	mm ²	0.5...10
Stranded H07 V-R		
Flexible H05(07) V-K	mm ²	0.5...10
Flexible with ferrule	mm ²	1.5...6
Ferrule with plastic collar	mm ²	1.5...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264

Tightening torque range	Nm	41
Rated current, max.	A	41
At ambient temperature		20°C 40°C
For conductor cross-section	mm ²	6
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	800 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)	B C D	

Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-8
CSA (Use Group)	B C D	
Rated voltage	V	600 600 600
Rated current	A	35 35 5
AWG conductor	AWG	24-8

General data		
Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		tinned
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

Accessories

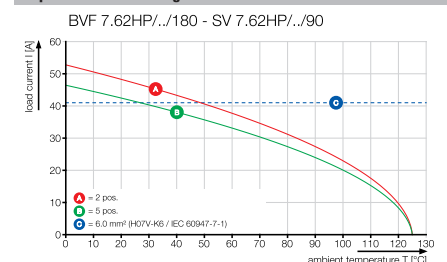
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Strain relief	
BV/SV 7.62HP/02 ZE GR	1937550000
BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver	
SDS 0.8x4.0x125	9009020000
Crimping tool	
PZ 6/5	9011460000

Ordering data

Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	65	1060550000
3	22.86	0.900	50	1060570000
4	30.48	1.200	40	1430120000
5	38.10	1.500	30	1430130000

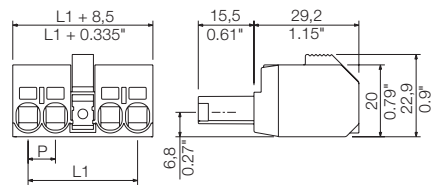
Representative deratings curve



BVF 7.62HP/./180MF3



Dimensioned drawing



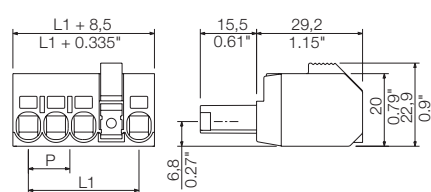
Ordering data

Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	50	1060580000	
4	30.48	1.200	40	1060590000	
5	38.10	1.500	30	1060600000	

BVF 7.62HP/./180MF4



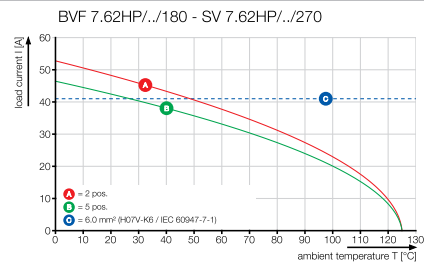
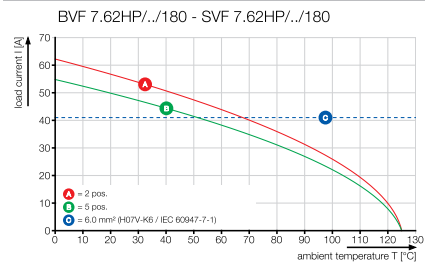
Dimensioned drawing



Ordering data

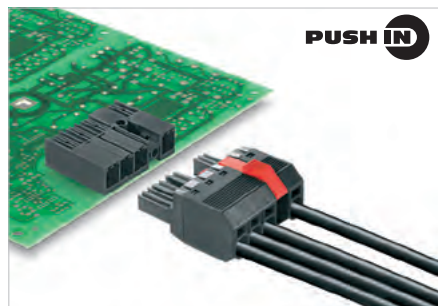
Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	40	1430140000	
5	38.10	1.500	30	1060610000	
6	45.72	1.800	25	1060620000	

Additional deratings curves



Connectors in 7.62 mm pitch Series BV/SV 7.62 - connects up to 6 mm²

BVF 7.62HP../180MSF



PUSH IN

Female plug in 180° outlet direction with "PUSH IN" spring connection for TNC (S) systems. Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange available in positions 2, 3 and 4.

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmueller.com

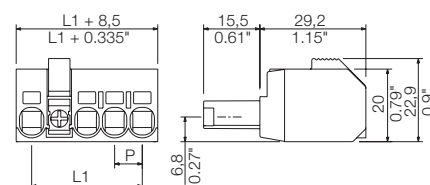
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

BVF 7.62HP../180MSF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.5...10
Solid core H05(07) V-U	mm ²	0.5...10
Stranded H07 V-R		
Flexible H05(07) V-K	mm ²	0.5...10
Flexible with ferrule	mm ²	1.5...6
Ferrule with plastic collar	mm ²	1.5...6
Stripping length	mm	12
Screwdriver blade	mm	0.8 x 4.5
According to norm		DIN 5264

Tightening torque range Nm **41**

Rated current, max. A **41**

At ambient temperature 20°C 40°C

For conductor cross-section mm² 6

Overvoltage category III III II

Pollution severity 3 2 2

Rated voltage V **800 1000 1000**

Rated impulse voltage kV 8 8 6

UL / CUL (Use Group) **B C D**

Rated voltage V **600 600 600**

Rated current A **35 35 5**

AWG conductor **AWG 24-8**

CSA (Use Group) **B C D**

Rated voltage V 600 600 600

Rated current A 35 35 5

AWG conductor AWG 24-8

General data

Type of insulation material PA GF

UL 94 flammability rating V-0

Contact base material Cu-Leg

Material of contact surface tinned

Pin dimensions = d mm

Solder eyelet Ø = D mm

Solder eyelet Ø tolerance mm

Accessories

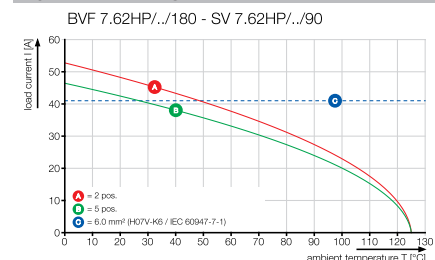
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Screwdriver	
SDS 0.8X4.0X125	9009020000
Crimping tool	
PZ 6/5	9011460000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	65	1060630000
3	22.86	0.900	50	1060640000
4	30.48	1.200	40	1430090000
5	38.10	1.500	50	1430100000

Representative deratings curve

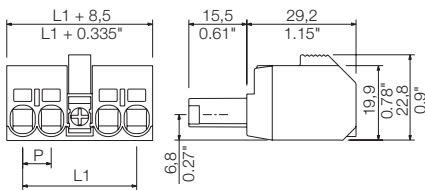


BVF 7.62HP../180MSF3

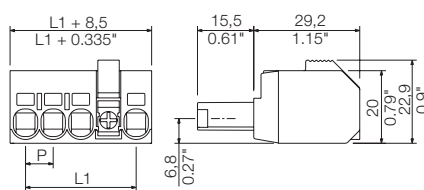
BVF 7.62HP../180MSF4



Dimensioned drawing



Dimensioned drawing



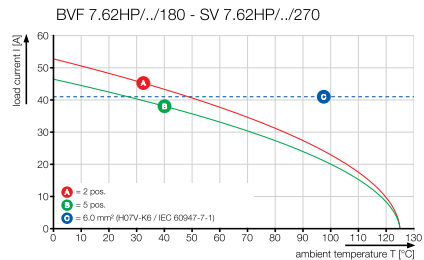
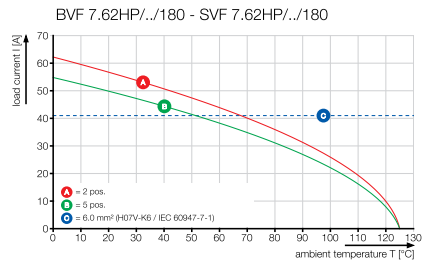
Ordering data

Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
3	22.86	0.900	50	1060650000	
4	30.48	1.200	40	1060670000	
5	38.10	1.500	30	1060680000	

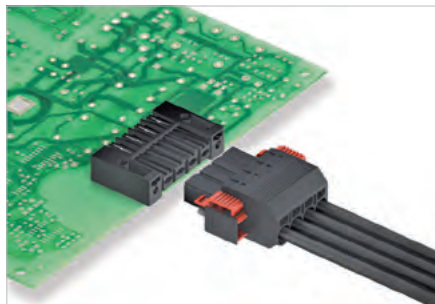
Ordering data

Solder pin length					
Colour					Black
Pitch	7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.	
4	30.48	1.200	40	1430110000	
5	38.10	1.500	30	1060690000	
6	45.72	1.800	25	1060700000	

Additional deratings curves



BVL 7.62HP/./90



Touch-safe female header in 90° outlet direction. Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL 508 / UL 840 for 600 V. An ideal touch-safe solution for power output and DC-link applications. According to IEC 61800-5-1, the mating profile ensures more than 3 mm of touch safety.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (FI) and screw flange (SFI).

Product data

IEC: 1000 V / 41 A

UL: 300 V / 35 A



For additional articles and information, refer to catalog.weidmueller.com

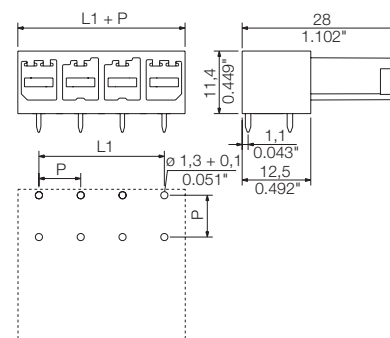
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = 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.

BVL 7.62HP/./90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²			
Solid core H05(07) V-U	mm ²			
Stranded H07 V-R				
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, max.	A	41	41	
At ambient temperature		20°C	40°C	
For conductor cross-section	mm ²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	630	630	1000
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		B	C	D
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG			
CSA (Use Group)		B	C	D
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG			
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Cu-Leg		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

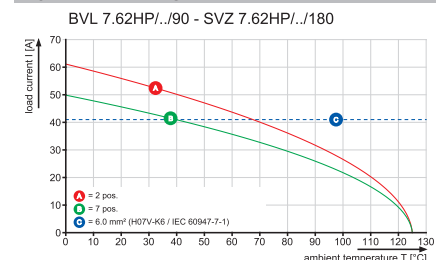
Coding		Order No.
	BV/SV 7.62HP K0	1937590000



Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928280000
3	15.24	0.600	100	1928290000
4	22.86	0.900	100	1928300000
5	30.48	1.200	50	1928310000
6	38.10	1.500	50	1928320000
7	45.72	1.800	50	1928330000

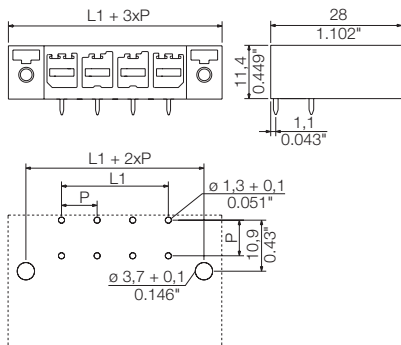
Representative deratings curve



BVL 7.62HP../90FI



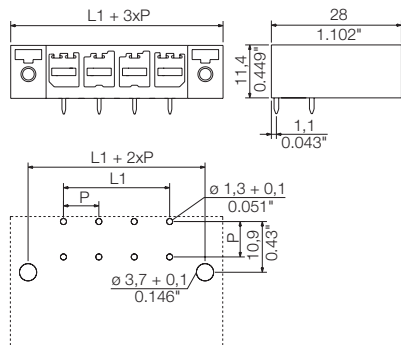
Dimensioned drawing



BVL 7.62HP../90SFI



Dimensioned drawing



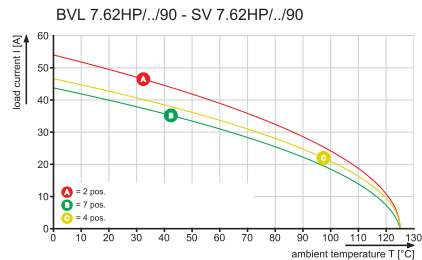
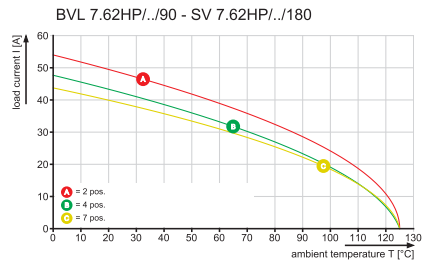
Ordering data

Solder pin length		3.5 mm
Colour		Black
Pitch		7.62 mm
Pol.	L1 (inch)	Qty. Order No.
2	7.62 0.300	100 1928390000
3	15.24 0.600	100 1928400000
4	22.86 0.900	100 1928410000
5	30.48 1.200	50 1928420000
6	38.10 1.500	50 1928430000
7	45.72 1.800	50 1928440000

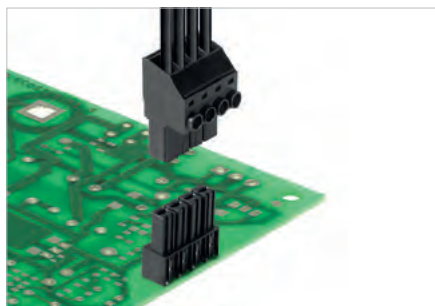
Ordering data

Solder pin length		3.5 mm
Colour		Black
Pitch		7.62 mm
Pol.	L1 (inch)	Qty. Order No.
2	7.62 0.300	100 1928500000
3	15.24 0.600	100 1928510000
4	22.86 0.900	100 1928520000
5	30.48 1.200	50 1928530000
6	38.10 1.500	50 1928540000
7	45.72 1.800	50 1928550000

Additional deratings curves



BVL 7.62HP../180



Touch-safe female header in 180° outlet direction.
Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL 508 / UL 840 for 600 V.
An ideal touch-safe solution for power output and DC-link applications. According to IEC 61800-5-1, the mating profile ensures more than 3 mm of touch safety.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (FI) and screw flange (SFI).

Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	
Solid core H05(07) V-U	mm ²	
Stranded H07 V-R		
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, max.	A	41 41
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	630 630 1000
Rated impulse voltage	kV	6 6 6

UL / CUL (Use Group)

Rated voltage	V	300 300 600
Rated current	A	35 35 5
AWG conductor	AWG	-

CSA (Use Group)

Rated voltage	V	300 300 600
Rated current	A	35 35 5
AWG conductor	AWG	-

General data

Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		tinned
Pin dimensions = d	mm	0.8 x 1.0
Solder eyelet Ø = D	mm	1.3
Solder eyelet Ø tolerance	mm	+ 0,1

Product data

IEC: 1000 V / 41 A

UL: 300 V / 35 A



For additional articles and information, refer to
catalog.weidmueller.com

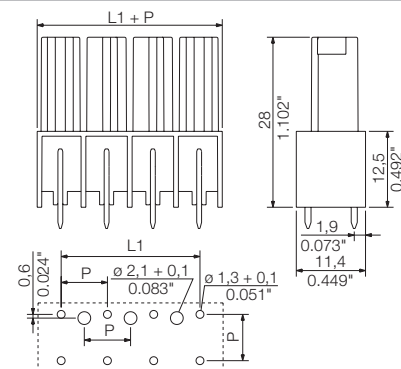
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = 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.

BVL 7.62HP../180



Dimensioned drawing



Accessories

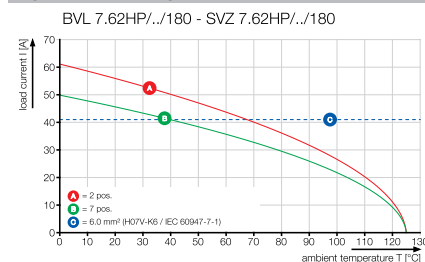
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Protection against twisting	
VDS180 SV7.62	1853940000

Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928610000
3	15.24	0.600	100	1928620000
4	22.86	0.900	100	1928630000
5	30.48	1.200	50	1928650000
6	38.10	1.500	50	1928660000
7	45.72	1.800	50	1928670000

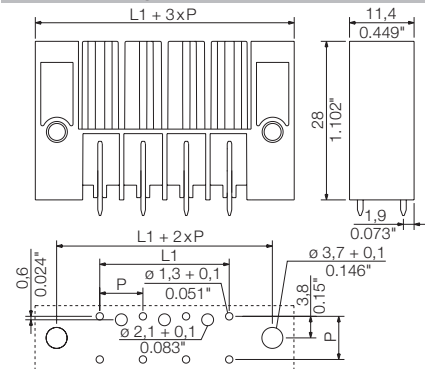
Representative deratings curve



BVL 7.62HP/./180FI



Dimensioned drawing



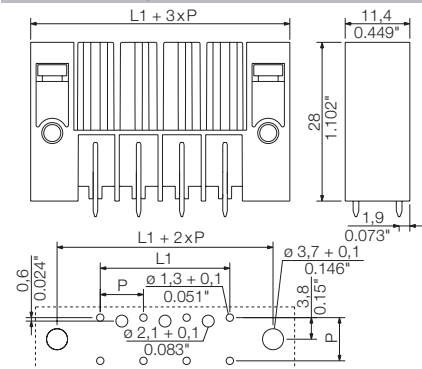
Ordering data

Solder pin length			3.5 mm	
Colour			Black	
Pitch			7.62 mm	
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928730000
3	15.24	0.600	100	1928740000
4	22.86	0.900	100	1928750000
5	30.48	1.200	50	1928760000
6	38.10	1.500	50	1928770000
7	45.72	1.800	50	1928780000

BVL 7.62HP/./180SFI



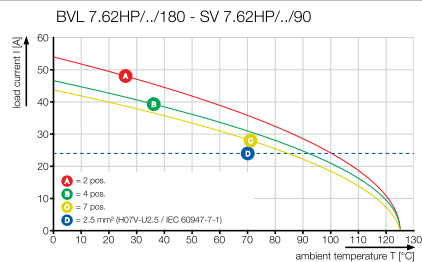
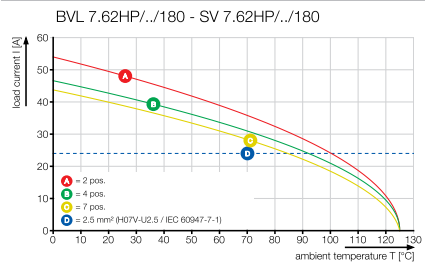
Dimensioned drawing



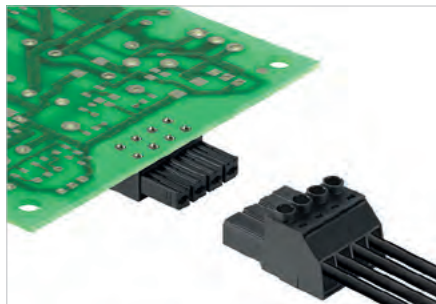
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch				7.62 mm
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1928840000
3	15.24	0.600	100	1928850000
4	22.86	0.900	100	1928860000
5	30.48	1.200	50	1928870000
6	38.10	1.500	50	1928900000
7	45.72	1.800	50	1928910000

Additional deratings curves



BVL 7.62HP/./270



Touch-safe female header in 270° outlet direction.
Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL 508 / UL 840 for 600 V.
An ideal touch-safe solution for power output and DC-link applications. According to IEC 61800-5-1, the mating profile ensures more than 3 mm of touch safety.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (FI) and screw flange (SFI).

Product data

IEC: 1000 V / 41 A

UL: 300 V / 35 A



For additional articles and information, refer to catalog.weidmueller.com

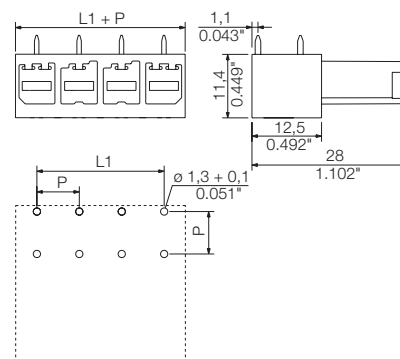
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = 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.

BVL 7.62HP/./270



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	
Solid core H05(07) V-U	mm ²	
Stranded H07 V-R		
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, max.	A	41 41
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	630 630 1000
Rated impulse voltage	kV	6 6 6
UL / CUL (Use Group)	B C D	

Rated voltage	V	300 300 600
Rated current	A	35 35 5
AWG conductor	AWG	-

CSA (Use Group)	B C D	
Rated voltage	V	300 300 600
Rated current	A	35 35 5
AWG conductor	AWG	-

General data		
Type of insulation material		PA GF
UL 94 flammability rating		V-0
Contact base material		Cu-Leg
Material of contact surface		tinned
Pin dimensions = d	mm	0.8 x 1.0
Solder eyelet Ø = D	mm	1.3
Solder eyelet Ø tolerance	mm	+ 0,1

Accessories

Note: Refer to the Accessories chapter for additional accessories.

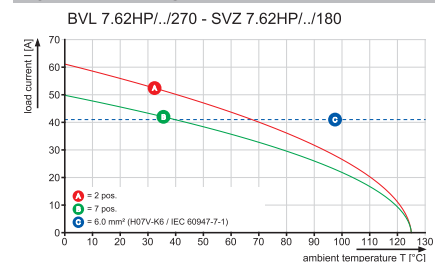
Coding		Order No.
	BV/SV 7.62HP K0	1937590000



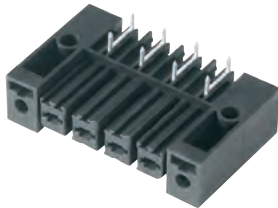
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1929300000
3	15.24	0.600	100	1929310000
4	22.86	0.900	100	1929320000
5	30.48	1.200	50	1929330000
6	38.10	1.500	50	1929340000
7	45.72	1.800	50	1929350000

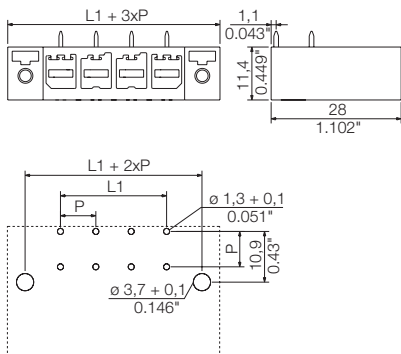
Representative deratings curve



BVL 7.62HP/./270FI



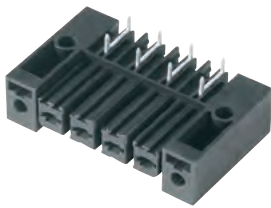
Dimensioned drawing



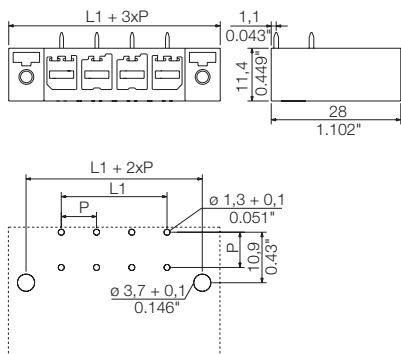
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1929410000
3	15.24	0.600	100	1929420000
4	22.86	0.900	100	1929430000
5	30.48	1.200	50	1929440000
6	38.10	1.500	50	1929450000
7	45.72	1.800	50	1929460000

BVL 7.62HP/./270SFI



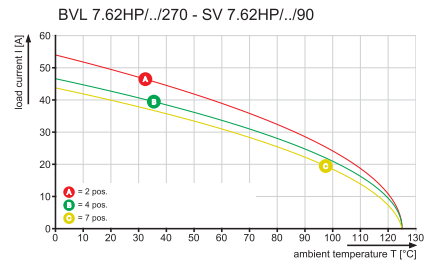
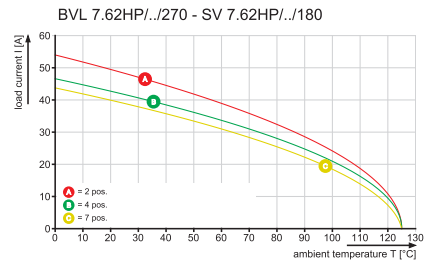
Dimensioned drawing



Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1929520000
3	15.24	0.600	100	1929530000
4	22.86	0.900	100	1929540000
5	30.48	1.200	50	1929550000
6	38.10	1.500	50	1929560000
7	45.72	1.800	50	1929570000

Additional deratings curves



Increased current for better performance

The top class in the OMNIMATE Power SU / BUZ 10.16HP connector system features a very durable contact system which makes it a pluggable power transmission solution with maximum load reserves.

HP stands for High Performance – performance exemplified by a long-term usage temperature of 120 °C. This custom, pluggable solution is suitable for all applications that must meet 600 V UL or 1,000 V (IEC) with up to 76 A (IEC) and 54 A (UL).

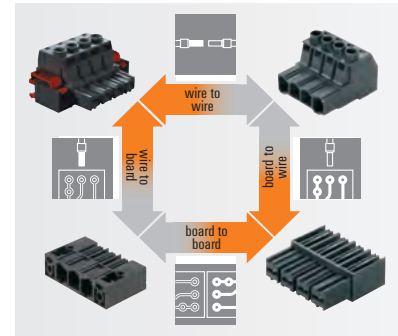
Compact reliability

Silver-plated contacts with stainless-steel top springs can tolerate short-circuit currents of 1,000 A for one second. Weidmüller's classic clamping yoke features a plus-minus screw and is protected against under insertion. It ensures a long-term, reliable connection.



High system performance

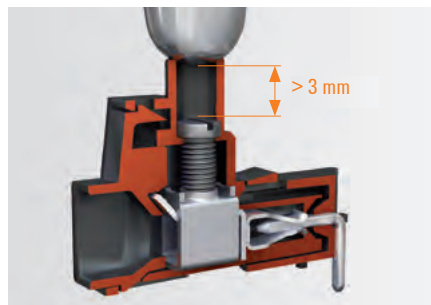
The OMNIMATE Power System up to 16 mm² can be individually combined with plugging mates that have an interlocking flange. It is also possible for the plugging mate to be screwed on.

**Individualised configuration**

Clear printed labelling and customised coding are used to prevent damage that could be caused by installation mistakes.

**Compact integration**

No compromises during design and approval: compact and standard-compliant with additional + 3.0 mm finger safety, according to IEC 61800-5-1, and increased creepage and clearance distances according to UL.



Legend for connection types:

- = Wire-to-Board
- = Board-to-Board
- = Wire-to-Wire
- = Board-to-Wire

Type		
	Orientation	
	Flange options	
	Product code numbers	
		Page

Female plug	 Screw Clamping yoke		BUZ	180°	(G)/F/SF	IEC: 1.000 V/78 A/0.2 - 16 mm² UL: 600 V/54 A/AWG 22 - 6	I.131
	 Solder connection		BUL	180°	on request	IEC: 630 V/75 A	I.132

Pin:
G = Closed (without flange)
F = Interlock flange
SF = Interlock flange with nut

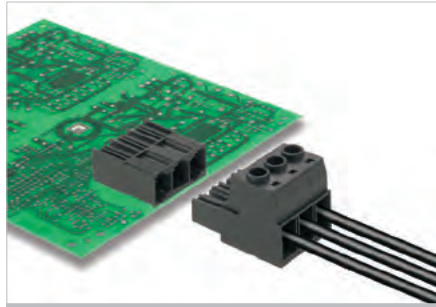
Male header	Male plug
 Solder connection	 Screw Clamping yoke



SU	SU	SU	SUZ
90°	180°	270°	180°
G/F	G/F/SF	G/F/SF	G
IEC: 1.000 V/76 A/ UL: 300 V/54 A	IEC: 1.000 V/76 A/ UL: 300 V/54 A	IEC: 1.000 V/76 A/ UL: 300 V/54 A	IEC: 1.000 V/78 A/ 0.2 - 16 mm² UL: 600 V/54 A/ AWG 24 - 6
I.122	I.124	I.126	I.128
			
			

Connectors in 10.16 mm pitch Series BU/SU 10.16 - connects up to 16 mm²

SU 10.16HP../90



Male header in 90° outlet direction for TNC (S) systems.
UL approved for 600 V in accordance with
UL 508 / UL 840. The mating profile ensures touch-
safety of more than 3 mm according to IEC 61800-5-1.
Maximum operational reliability with a derating up to
125 °C, a mating profile that can only be plugged in
correct and unique coding capability.

- Available with a flange (F) and screw flange (SF).

Product data

IEC: 1000 V / 76 A

UL: 300 V / 54 A



For additional articles and information, refer to
catalog.weidmueller.com

Note:

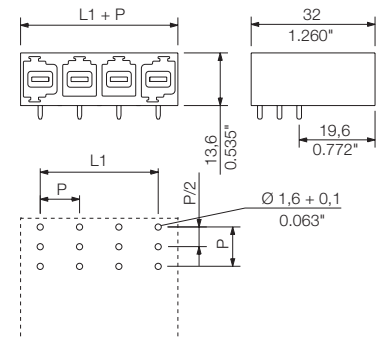
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SU 10.16HP../90G

without flanges



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm ²		
Stranded H07 V-R			
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, max.	A	76	72
At ambient temperature		20 °C	40 °C
For conductor cross-section	mm ²		
Overvoltage category		III	III
Pollution severity		3	2
Rated voltage	V	690	1000
Rated impulse voltage	kV	8	8
UL / CUL (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	54	54
AWG conductor	AWG	-	5
CSA (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	54	54
AWG conductor	AWG	-	5
General data			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BV/SV7.62	1824410000



Ordering data

Solder pin length		3.5 mm
Colour		Black
Pitch	10.16 mm	
Pol.	L1	Qty.
2	10.16	50
3	20.32	50
4	30.48	50
5	40.64	20
6	50.80	20
7	60.96	20
8	71.12	20
9	81.28	20

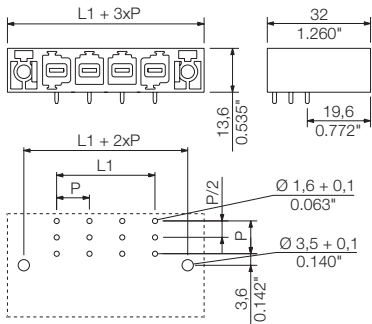
Order No. 1813330000 1813340000 1813350000 1813360000 1813370000 1813380000 1813390000 1813400000

SU 10.16HP/./90F

Interlock flanges



Dimensioned drawing



Ordering data

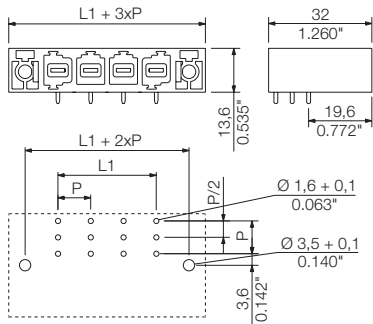
Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
2	10.16	0.400	50 1813570000
3	20.32	0.800	50 1813580000
4	30.48	1.200	50 1813590000
5	40.64	1.600	20 1813600000
6	50.80	2.000	20 1813610000
7	60.96	2.400	20 1813620000
8	71.12	2.800	20 1813630000
9	81.28	3.200	20 1813640000

SU 10.16HP/./90SF

Interlock flanges with nuts



Dimensioned drawing



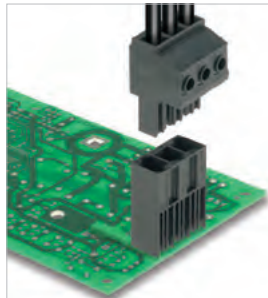
Ordering data

Solder pin length		3.5 mm	
Colour		Black	
Pitch		10.16 mm	
Pol.	L1	(inch)	Qty. Order No.
2	10.16	0.400	50 1851040000
3	20.32	0.800	50 1851050000
4	30.48	1.200	50 1851060000
5	40.64	1.600	20 1851070000
6	50.80	2.000	20 1851080000
7	60.96	2.400	20 1851090000
8	71.12	2.800	20 1851100000
9	81.28	3.200	20 1851110000

Connectors in 10.16 mm pitch

Series BU/SU 10.16 - connects up to 16 mm²

SU 10.16HP/./180



Male header in 180° outlet direction for TNC (S) systems. UL approved for 600 V in accordance with UL 508 / UL 840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1. Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange (SF).

Product data

IEC: 1000 V / 74 A

UL: 300 V / 54 A



For additional articles and information, refer to catalog.weidmueller.com

Note:

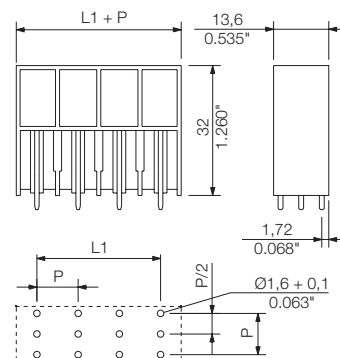
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SU 10.16HP/./180G

without flanges



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm ²		
Stranded H07 V-R			
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, max.	A	74	68
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III
Pollution severity		3	2
Rated voltage	V	690	1000
Rated impulse voltage	kV	8	8
UL / CUL (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	54	54
AWG conductor	AWG	-	5
CSA (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	54	54
AWG conductor	AWG	-	5
General data			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0.1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Protection against twisting	Order No.
VDS180 SV7.62	1853940000
Coding	Order No.
KO BV/SV7.62	1824410000

Ordering data

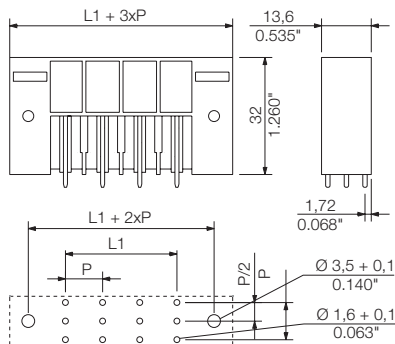
Soldier pin length				3.5 mm
Colour				Black
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	1813410000
3	20.32	0.800	50	1813420000
4	30.48	1.200	50	1813430000
5	40.64	1.600	20	1813440000
6	50.80	2.000	20	1813450000
7	60.96	2.400	20	1813460000
8	71.12	2.800	20	1813470000
9	81.28	3.200	20	1813480000

SU 10.16HP../180F

Interlock flanges



Dimensioned drawing



Ordering data

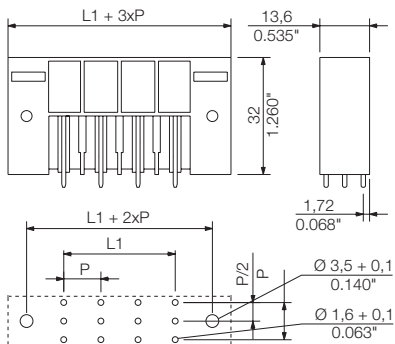
Solder pin length		3.5 mm			
Colour		Black			
Pitch		10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	50	1813650000	
3	20.32	0.800	50	1813660000	
4	30.48	1.200	50	1813670000	
5	40.64	1.600	20	1813680000	
6	50.80	2.000	20	1813690000	
7	60.96	2.400	20	1813700000	
8	71.12	2.800	20	1813710000	
9	81.28	3.200	20	1813720000	

SU 10.16HP../180SF

Interlock flanges with nuts



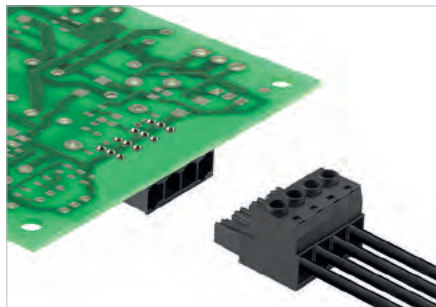
Dimensioned drawing



Ordering data

Solder pin length		3.5 mm			
Colour		Black			
Pitch		10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	50	1850880000	
3	20.32	0.800	50	1850890000	
4	30.48	1.200	50	1850900000	
5	40.64	1.600	20	1850910000	
6	50.80	2.000	20	1850920000	
7	60.96	2.400	20	1850930000	
8	71.12	2.800	20	1850940000	
9	81.28	3.200	20	1850950000	

SU 10.16HP../270



Male header in 270° outlet direction for TNC (S) systems. UL approved for 600 V in accordance with UL 508 / UL 840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1. Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange (SF).

Product data

IEC: 1000 V / 76 A

UL: 300 V / 54 A



For additional articles and information, refer to catalog.weidmueller.com

Note:

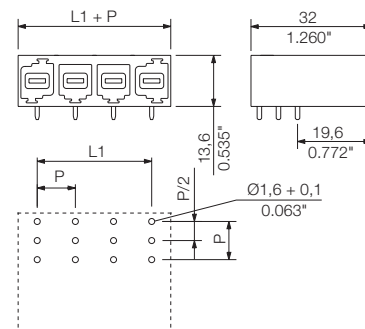
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SU 10.16HP../270G

without flanges



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²		
Solid core H05(07) V-U	mm ²		
Stranded H07 V-R			
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, max.	A	76	72
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²		
Overvoltage category		III	III
Pollution severity		3	2
Rated voltage	V	690	1000
Rated impulse voltage	kV	8	8
UL / CUL (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	54	54
AWG conductor	AWG	-	5
CSA (Use Group)		B	C
Rated voltage	V	300	300
Rated current	A	54	54
AWG conductor	AWG	-	5
General data			
Type of insulation material		PBT GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		silver-plated	
Pin dimensions = d	mm	1.2 x 1.1	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BV/SV7.62	1824410000

Ordering data

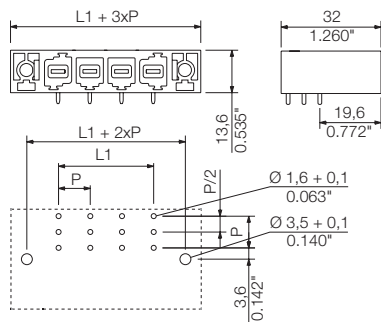
Solder pin length				3.5 mm
Colour				Black
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	1813490000
3	20.32	0.800	50	1813500000
4	30.48	1.200	50	1813510000
5	40.64	1.600	20	1813520000
6	50.80	2.000	20	1813530000
7	60.96	2.400	20	1813540000
8	71.12	2.800	20	1813550000
9	81.28	3.200	20	1813560000

SU 10.16HP/./270F

Interlock flanges



Dimensioned drawing

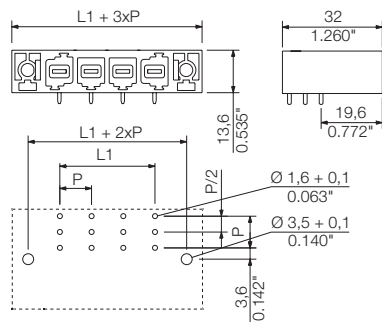


SU 10.16HP/./270SF

Interlock flanges with nuts



Dimensioned drawing



Ordering data

Solder pin length		3.5 mm			
Colour		Black			
Pitch		10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	50	1813730000	
3	20.32	0.800	50	1813740000	
4	30.48	1.200	50	1813750000	
5	40.64	1.600	20	1813760000	
6	50.80	2.000	20	1813770000	
7	60.96	2.400	20	1813780000	
8	71.12	2.800	20	1813790000	
9	81.28	3.200	20	1813800000	

Ordering data

Solder pin length		3.5 mm			
Colour		Black			
Pitch		10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	50	1851120000	
3	20.32	0.800	50	1851130000	
4	30.48	1.200	50	1851140000	
5	40.64	1.600	20	1851150000	
6	50.80	2.000	20	1851160000	
7	60.96	2.400	20	1851170000	
8	71.12	2.800	20	1851180000	
9	81.28	3.200	20	1851190000	

Connectors in 10.16 mm pitch

Series BU/SU 10.16 - connects up to 16 mm²

SUZ 10.16HP/./180



Male plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems.

Meets the requirements of UL 1059 for 600 V Use Group C. The mating profile ensures touch safety of more than 3 mm according to IEC 61800-5-1 when connected.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange on request.

Product data

IEC: 1000 V / 78 A / 0.2 - 16 mm²

UL: 600 V / 54 A / AWG 24 - 6



For additional articles and information, refer to catalog.weidmueller.com

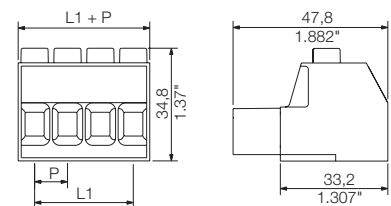
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = 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.

SUZ 10.16HP/./180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.2...16
Solid core H05(07) V-U	mm²	0.2...16
Stranded H07 V-R	mm ²	6...16
Flexible H05(07) V-K	mm ²	0.5...16
Flexible with ferrule	mm ²	0.25...16
Ferrule with plastic collar	mm ²	0.25...10
Stripping length	mm	12
Screwdriver blade	mm	1.0 x 5.5
According to norm		DIN 5264
Tightening torque range	Nm	1.2...1.5
Rated current, max.	A	78 72
At ambient temperature		20°C 40°C
For conductor cross-section	mm ²	16
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	1000 1000 1000
Rated impulse voltage	kV	8 8 6
UL / CUL (Use Group)	B C D	

Rated voltage	V	600 600 600
Rated current	A	54 54 5
AWG conductor	AWG	24-6
CSA (Use Group)	B C D	

Rated voltage	V	600 600 600
Rated current	A	54 54 5
AWG conductor	AWG	24-6

General data

Type of insulation material	PA GF
UL 94 flammability rating	V-0
Contact base material	Cu-Leg
Material of contact surface	silver-plated
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

Accessories

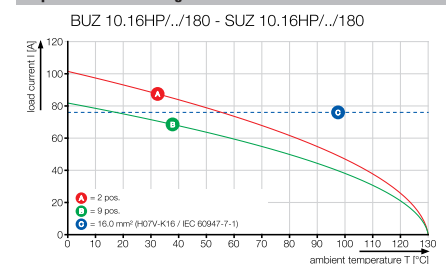
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
KO BV/SV7.62	1824410000
Screwdriver	
SDIS 1.0X5.5X125	9008410000
Crosshead screwdriver	
SDIK PZ2	9008890000
SDK PZ2	9008540000

Ordering data

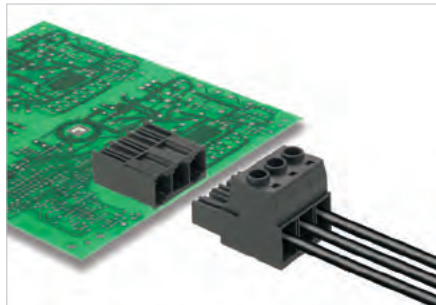
Solder pin length				
Colour				Black
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	1947480000
3	20.32	0.800	50	1947490000
4	30.48	1.200	50	1947500000
5	40.64	1.600	20	1947510000
6	50.80	2.000	20	1966920000
7	60.96	2.400	20	1966930000
8	71.12	2.800	20	1962400000
9	81.28	3.200	20	1966910000

Representative deratings curve



Connectors in 10.16 mm pitch Series BU/SU 10.16 - connects up to 16 mm²

BUZ 10.16HP/./180



Female plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Meets the requirements of UL 1059 for 600 V Use Group C. Ensures touch-safety of

> 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange (SF).

Product data

IEC: 1000 V / 78 A / 0.2 - 16 mm²

UL: 600 V / 54 A / AWG 22 - 6



For additional articles and information, refer to catalog.weidmueller.com

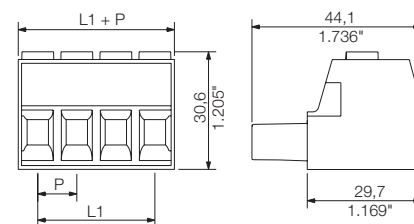
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = 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.

BUZ 10.16HP/./180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.2...16
Solid core H05(07) V-U	mm²	0.2...16
Stranded H07 V-R	mm ²	6...16
Flexible H05(07) V-K	mm ²	0.5...16
Flexible with ferrule	mm ²	0.25...16
Ferrule with plastic collar	mm ²	0.25...10
Stripping length	mm	12
Screwdriver blade	mm	1.0 x 5.5
According to norm		DIN 5264
Tightening torque range	Nm	1.2...1.5

Rated current, max.	A	78	72
At ambient temperature		20°C	40°C

For conductor cross-section	mm ²	16
Overvoltage category		III III II
Pollution severity		3 2 2

Rated voltage	V	1000	1000	1000
Rated impulse voltage	kV	8	8	6

UL / CUL (Use Group)	B	C	D
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Rated voltage	V	600	600	600
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Rated current	A	54	54	5
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AWG conductor	AWG	22-6
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CSA (Use Group)	B	C	D
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Rated voltage	V	600	600	600
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Rated current	A	54	54	5
---------------	---	----	----	---

AWG conductor	AWG	22-6
---------------	-----	------

General data

Type of insulation material	PA GF
UL 94 flammability rating	V-0
Contact base material	Cu-Leg
Material of contact surface	silver-plated
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

Accessories

Note: Refer to the Accessories chapter for additional accessories.

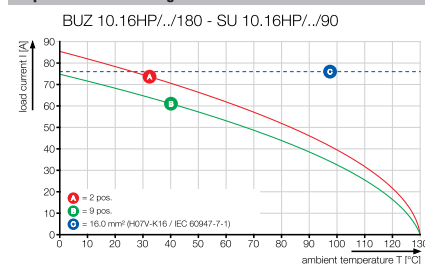
Coding	Order No.
KO BV/SV7.62	1824410000
Screwdriver	
SDIS 1.0X5.5X125	9008410000
Crosshead screwdriver	
SDIK PZ2	9008890000
SDK PZ2	9008540000

Ordering data

Solder pin length

Colour				Black
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	1924540000
3	20.32	0.800	50	1924550000
4	30.48	1.200	50	1924560000
5	40.64	1.600	20	1924570000
6	50.80	2.000	20	1924580000
7	60.96	2.400	20	1924590000
8	71.12	2.800	20	1924600000
9	81.28	3.200	20	1924610000

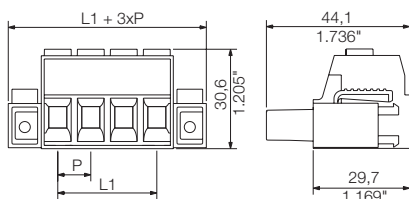
Representative deratings curve



BUZ 10.16HP/./180F



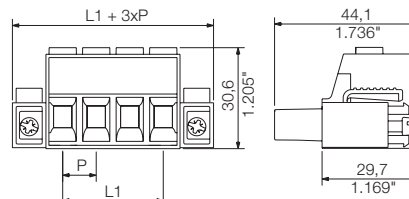
Dimensioned drawing



BUZ 10.16HP/./180SF



Dimensioned drawing



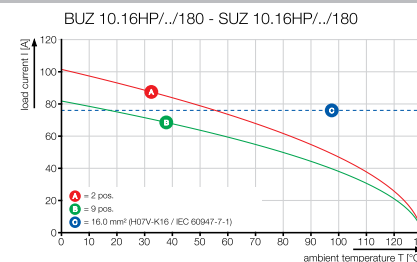
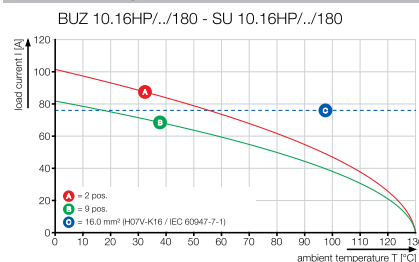
Ordering data

Solder pin length					
Colour					Black
Pitch	10.16 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	50	1924620000	
3	20.32	0.800	24	1924630000	
4	30.48	1.200	20	1924640000	
5	40.64	1.600	16	1924650000	
6	50.80	2.000	20	1924660000	
7	60.96	2.400	12	1924670000	
8	71.12	2.800	20	1924680000	
9	81.28	3.200	20	1924690000	

Ordering data

Solder pin length					
Colour					Black
Pitch	10.16 mm				
Pol.	L1	(inch)	Qty.	Order No.	
2	10.16	0.400	50	1924700000	
3	20.32	0.800	50	1924710000	
4	30.48	1.200	20	1924720000	
5	40.64	1.600	20	1924740000	
6	50.80	2.000	20	1924750000	
7	60.96	2.400	20	1924760000	
8	71.12	2.800	20	1924770000	
9	81.28	3.200	20	1924780000	

Additional deratings curves





Features:

- ## Technical data

Product data



For additional articles and information, refer to
catalog.weidmueller.com

Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = 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.

Accessories

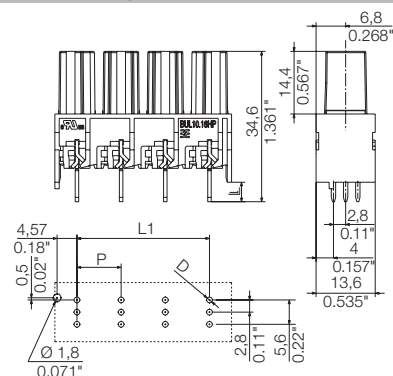
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
 _____ KO BV/SV.7.62 _____ _____	1824410000

Without flange



Dimensioned drawing

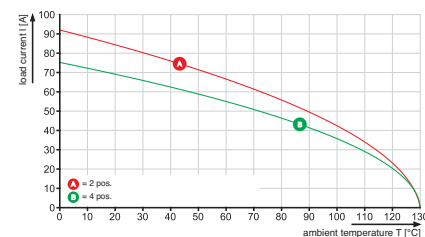


Ordering data

Soldier pin length				4.5 mm
Colour				Black
Pitch		10.16 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	1289000000
3	10.16	0.400	50	1341270000
4	10.16	0.400	50	1289010000

Representative deratings curve

BUL 10.16HP/./180 - SU 10.16HP/./180



OMNIMATE Power Through-Panel Terminals

OMNIMATE Power Through-Panel Terminals	Through-Panel Terminals for devices Series PGK 4 and WGK	Explanation	J.2
		System overview	J.6
		Quick selection	J.8
	Through-Panel Terminals for devices Series PGK 4 – “PUSH IN” connection	Product selection	
		– Max. clamping range 4 mm ²	J.10
	Through-Panel Terminals for devices Series WGK – connects up to 95 mm ²	Product selection	
		– Max. clamping range 6 mm ²	J.12
		– Max. clamping range 10 mm ²	J.14
		– Max. clamping range 16 mm ²	J.16
		– Max. clamping range 25 mm ²	J.18
		– Max. clamping range 35 mm ²	J.20
		– Max. clamping range 50 mm ²	J.22
		– Max. clamping range 95 mm ²	J.24

OMNIMATE – “PUSH IN” PGK 4 through-panel terminal

Comfortable, cost-saving installation and connection of conductors up to 4 mm²

In your applications space is limited. Save space and time for your housing feedthrough with our flexible connection system. Let's connect.

You are looking for a space-saving solution to quickly install wire connections for your device with panel or housing feed-throughs.

You'll find what you are looking for with our innovative “PUSH IN” connectivity technology solutions. Our PGK 4 feed-through terminal is worthy of note for its tool-free wire connection on the interior and exterior of your device. Thanks to its flexible, sliced construction and the intuitive fastening mechanism, it's easy for you to build blocks with plenty of poles.

With such features, our PGK 4 is currently the most compact and fastest solution for housing feedthroughs. Let's connect.

Flexible application options

Due to its construction with only 5.1 mm wide slices, you can build simple, space-saving terminal blocks with plenty of poles.



Clear marking

The terminals can be clearly labelled on the top and bottom, so that the terminal block can always be marked regardless of mounting position.

Simple handling and reduced assembly costs

Enjoy the benefits of the intuitive fastening mechanism and the ability to fasten the terminal block in the housing cut-out in seconds.

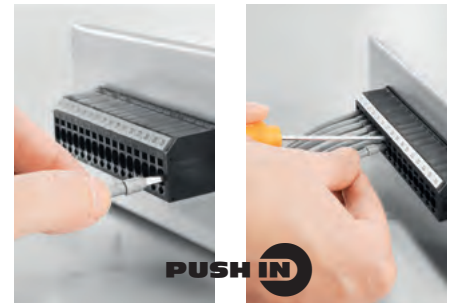


Secure attachment through thick and thin

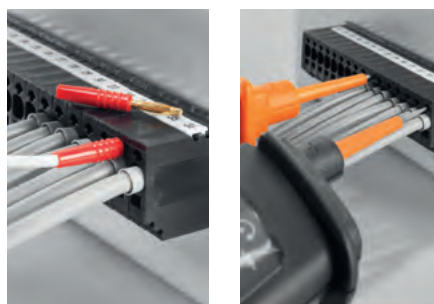
The innovative terminal block fixing mechanism ensures a safe and reliable hold for the device feedthrough and is suited to panel thicknesses between 1.50 mm and 3.00 mm.

**Solid contact with a large connection cross-section**

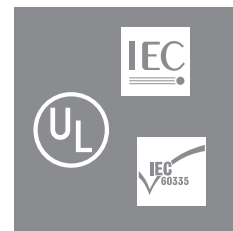
Our innovative "PUSH IN" connection technology allows users to quickly and conveniently connect conductors. It also meets the need for permanent and vibration-resistant contacts. Conductor connections with a cross-section of up to 4.0 mm² with ferrules are possible.

**Available for testing at any time**

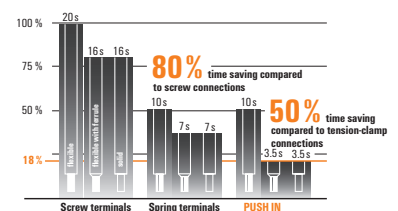
You can perform a simple function check at any time using the easily accessible diagnostic test points.

**Future-proofed materials and approvals**

Halogen-free materials and additional international approvals increase the application options for new device designs.

**Direct connected**

"PUSH IN" the quick, tool-free, intuitive connection mechanism for prepared wires. www.push-in.com



Through-Panel Terminals

WGK – OMNIMATE Power

The universal solution to feed power through housing walls. Suitable for applications such as EMC filters, discretely structured converters for drive engineering, encapsulated equipment or inverters in the production of renewable energy.

Choose from the flexible range:

- Wide performance spectrum for currents up to 232 A and wire cross sections from 4 to 95 mm² (AWG 4/0)
- Various types of connections: castable solder connection, cable-lug-stud connection, and maintenance-free clamping-yoke screw connection
- Shapes for accommodating horizontal or vertical wire outlets

Clear marking in every situation

Clarity is enhanced with clearly visible markers at each clamping point and in any position. The clamps can be marked with Weidmüller Dekafix markers and flexible pasteur tabs.



J

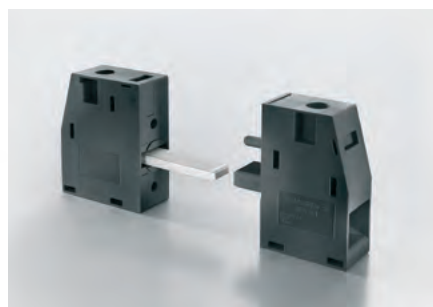
Safety with extra power

The high-performance insulating material WEMID meets maximum system availability requirements: With an RTI (relative temperature index) of 120 °C, the OMNIMATE power Through-Panel Terminals exceed the highest continued use temperature of standard PA (100 °C) at +20° K, thus creating more power reserves and maximum safety with temperature fluctuations and overloads



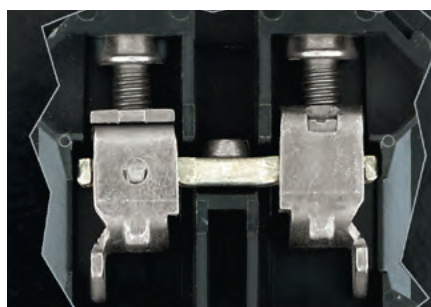
Easy handling

WGK series lead-through terminals consist of an inside and outside component that are easily locked with one another through the housing wall without any tools.

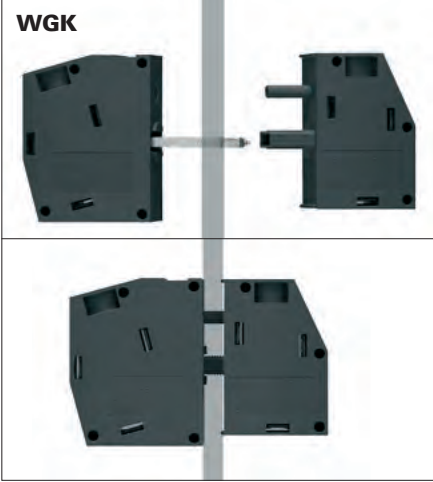


Solid and proven connection

Connections proven a million times. The terminal unit consists of hardened steel, for very high contact force. The current bar is made of copper, which gives a low voltage drop. The tin-plated surface ensures minimum contact resistances.

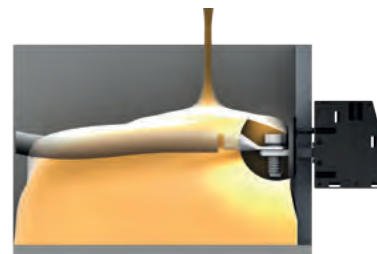


WGK series – System overview

WGK 	Easy installation WGK series feedthrough terminals consist of an inside and outside component that are easily locked with one another through the housing wall without any tools.
VWGK  WGK...VP  WGK...WGKV 	Maximum freedom of design Different types of connection on the inside such as a castable soldering connection (VWGK...), cable lug bolt connection (WGK ...VP) and a no-service clamping yoke-screw connection (WGK...) provide the optimum connection in any installation situation. Weidmüller offers two models with a horizontal (WGK) and vertical (WGKV) outgoing direction to adapt the conductor guide to the given installation conditions.

The VP and VWGK models of the WGK lead-through terminals with an insulating housing and clamping yoke connection on the outside are enhanced for use in encapsulated and cast equipment (such as EMV filters).

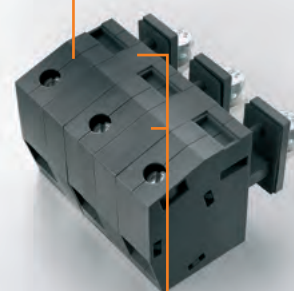
These products are developed for 100 % sealing in completely cast units.



All Through-Panel Terminals terminals are available with pins (WGK.../Z) for easy locking. Multi-pole blocks can be built up quickly and easily.

Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.

Distance plates (DP WGK...) can be easily mounted with locking pins.

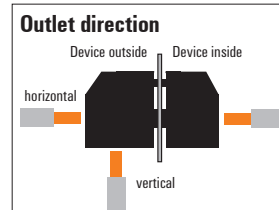


Fast and easy design in online CAD models. The CAD models for OMNIMATE Power WGK lead-through terminals can be found in Weidmüller's online catalogue and in the PART community.

<http://catalog.weidmueller.com/>

<http://weidmueller.partcommunity.com/>



<http://www.OMNIMATE.net>


Through-Panel terminals - WGK

Device Outside	Device Inside	Clamping range IEC Clamping range UL	Max. rated voltage IEC Nominal current UL	Type	Outlet direction
Type of connection	Type of connection				
 PUSH IN	 PUSH IN	0.5 - 4 mm ² 24 - 10 AWG	32 A 30 A		PGK 4 horizontal
 Screw Clamping yoke	 Solder connection	0.5 - 6 mm ² 30 - 10 AWG	32 A 30 A		VWGK 4 horizontal
		0.5 - 10 mm ² 22 - 8 AWG	41 A 50 A		VWGK 6 horizontal
	 Screw Clamping yoke	0.5 - 6 mm ² 30 - 10 AWG	32 A 30 A		WGK 4 WGKV 4 horizontal vertical
		0.5 - 16 mm ² 24 - 6 AWG	57 A 65 A		WGK 10 WGKV 10 horizontal vertical
	 Screw Clamping yoke	0.5 - 25 mm ² 20 - 4 AWG	76 A 85 A		WGK 16 WGKV 16 horizontal vertical
					WGK 16 VP horizontal
	 Screw Clamping yoke	6 - 35 mm ² 10 - 3 AWG	101 A 100 A		WGK 25 WGKV 25 horizontal vertical
					WGK 25 VP horizontal
	 Screw Clamping yoke	16 - 50 mm ² 6 - 1/0 AWG	150 A 145 A		WGK 50 horizontal
					WGK 50 VP horizontal
	 Screw Clamping yoke	35 - 95 mm ² 4 - 4/0 AWG	232 A 230 A		WGK 95 horizontal
					WGK 95 F VP horizontal
	 Cable lug				

J

J



4 mm²

J.10

For additional articles and information, refer to
catalog.weidmueller.com

- Packing unit incl. 30 locking elements (VREL PGK 4 OR - 1288610000)
- End plate required
- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- 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.
- Colours: BK = black; GN/YL = green yellow; none = grey
- Additional colours on request



Diagram of a 4x4 array of 16 100-Watt incandescent lamps. The array is 20.1 ft by 20.1 ft. The spacing between lamps is 5.1 ft horizontally and 2.7 ft vertically. The total width and height are 20.1 ft, with a 0.1 ft gap between the array and the walls.

Horizontal dimensions: 5.1 ft, 0.2 ft, 2.5 ft, 0.1 ft.

Vertical dimensions: 20.1 ft, 0.79 ft, 20.1 ft.

Horizontal spacing: $n \times 5.1 + 2.7$

Vertical spacing: $n \times 0.2 + 0.1$

$n_{\text{rows}} = 40$

Ordering data

With lock pins		
Type	Qty.	Order No.
PGK 4 BK	100	1288470000

Accessories

Additional locking		Order No.
	VREL PGK4 OR	1288610000
Testing / Checking		
	PS 2.3 RT	0180400000
Screwdriver		
	SDS 0.4X2.5X75	9009030000
	SDS 0.5X3.0X80	9008320000
Crimping tool		
	PZ 6/5	9011460000

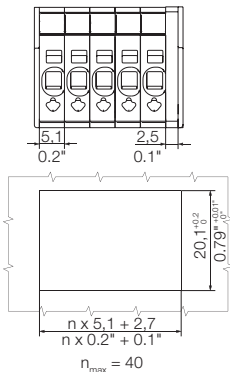
Ordering data

PGK 4 BT

"PUSH IN" connection



Dimensioned drawing



Ordering data

With lock pins		
Type	Qty.	Order No.
PGK 4 BT BK	100	1288590000

EPL PGK 4



Dimensioned drawing

Ordering data

With lock pins		
Type	Qty.	Order No.
EPL PGK4 BK	50	1288600000

Through-Panel Terminals for devices Series WGK - connects up to 95 mm²

Max. clamping range: 6 mm²



The high-current feed-through terminals of the WGK series provide a universal solution for feeding currents of different magnitude through the enclosure wall.

Various types of connection on the inside such as solder connections which can be encapsulated (VWGK...), cable lug connections (WGK ...VP) and maintenance-free clamping yoke screw connections (WGK...) with vertical and horizontal wire insertion provide the optimal connection for any installation situation.

Terminals with locking pins are available for simple and fast assembly for multi-pole blocks.

Product data

IEC: 500 V / 32 A / 0.5 - 6 mm²
UL: 300 V / 30 A / AWG 30 - 10



For additional articles and information, refer to catalog.weidmueller.com

Note:

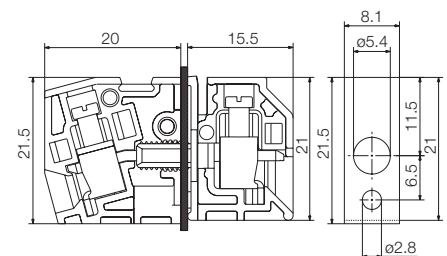
- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green yellow; none = grey
- Additional colours on request
- WGK: Rated voltage plastic walls: 1 - 4 mm = 500 V; metal walls: 1 - 2.5 mm = 400 V; metal walls: 2.5 - 4 mm = 250 V
- WGKV: Rated voltage plastic walls: 1 - 4 mm = 400 V; metal walls: 1 - 2.5 mm = 400 V; metal walls: 2.5 - 4 mm = 250 V
- VWGK: Rated voltage plastic walls: 1 - 4 mm = 500 V; metal walls: 1 - 4 mm = 500 V

WGK 4

Screw connection



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.5...6
Solid core H05(07) V-U	mm ²	0.5...6
Stranded H07 V-R	mm ²	
Flexible H05(07) V-K	mm ²	0.5...4
Flexible with ferrule	mm ²	0.5...4
Ferrule with plastic collar	mm ²	
Stripping length	mm	8
Screwdriver blade	mm	0.6 x 3.5
According to norm		
Tightening torque range	Nm	0.6...0.8
Rated current, max.	A	32
At ambient temperature		20°C 40°C
For conductor cross-section	mm ²	4
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	500
Rated impulse voltage	kV	6
UL / CUL (Use Group)	B C D	

Rated voltage	V	300
Rated current	A	30
AWG conductor	AWG	30-10
CSA (Use Group)	B C D	
Rated voltage	V	300
Rated current	A	30
AWG conductor	AWG	30-10

General data

Type of insulation material	Wemid (PA)
UL 94 flammability rating	V-0
Contact base material	E-Cu
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Distance plate	Order No.
DP VWGK 4 SW	1251030000
DP VWGK 4	1936430000
DP WGK 4	1936450000
DP WGK 4 SW	1297840000
DP WGKV 4	1936470000
Screwdriver	
SDIS 0.6X3.5X100	9008390000
Identification systems	
DEK 5/5 MC-10 NE WS	1609801044
DEK 5/6 MC NE WS	1609820000
DEK 5/8 MC NE WS	1856740000

Ordering data

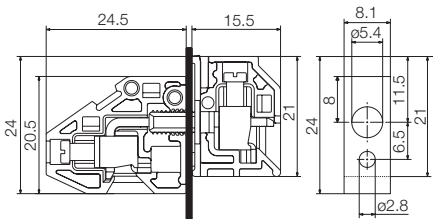
		With lock pins	No lock pins
Type	Qty.	Order No.	Order No.
WGK 4/Z SW	50	1250940000	
WGK 4/Z gn/ye	50	1936560000	
WGK 4/Z	50	1936570000	
WGK 4 SW	50		1250930000
WGK 4 GN/YE	50		1936540000
WGK 4	50		1936550000

WGKV 4

Screw connection



Dimensioned drawing



Ordering data

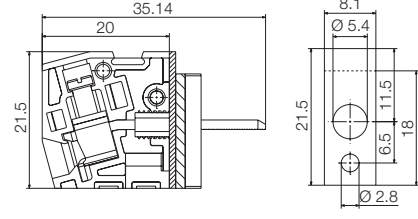
				With lock pins	No lock pins
Type	Qty.	Order No.	Order No.		
WGKV 4/Z SW	50	1250960000			
WGKV 4/Z gn/ye	50	1936620000			
WGKV 4/Z	50	1936630000			
WGKV 4 SW	50		1250950000		
WGKV 4 gn/ye	50		1936610000		
WGKV 4	50		1934050000		

WGK 4 VP

Solder connection



Dimensioned drawing



Ordering data

				With lock pins	No lock pins
Type	Qty.	Order No.	Order No.		
WGK 4 VP/Z BK	50	1339810000			
WGK 4 VP/Z GN/YE	50	1003900000			
WGK 4 VP/Z	50	1003910000			
WGK 4 VP BK	50		1339790000		
WGK 4 VP GN/YE	50		1003890000		
WGK 4 VP	50		1981890000		

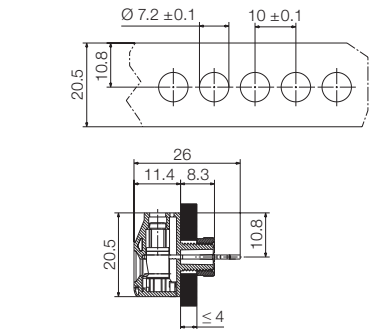
For the rated voltage of plastic and metal walls, see the "WGK" notes

VWGK 4

Solder connection



Dimensioned drawing



Ordering data

			With lock pins
Type	Qty.	Order No.	
VWGK 4 SW	50	1250650000	
VWGK 4 GN/YE	50	1936480000	
VWGK 4	50	1936490000	

Through-Panel Terminals for devices Series WGK - connects up to 95 mm²

Max. clamping range: 10 mm²



The V versions of the WGK feed-through terminal with an insulated housing and clamping yoke connection on the outside, and a solder connection on the inside. Optimal connection options for use in encapsulated devices (e.g. EMC filters and/or fully insulated transformers).

Terminals with locking pins are available for simple and fast assembly of multi-pole blocks.

Product data

IEC: 500 V / 41 A / 0.5 - 10 mm²
UL: 300 V / 50 A / AWG 22 - 10



For additional articles and information, refer to catalog.weidmueller.com

Note:

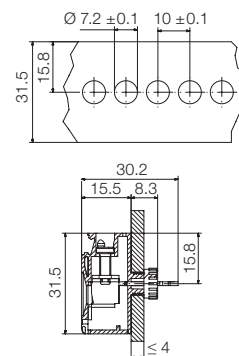
- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green yellow; none = grey
- Additional colours on request
- VWGK: Rated voltage plastic walls: 1 - 4 mm = 500 V; metal walls: 1 - 4 mm = 500 V

VWGK 6

Solder connection



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.5...10
Solid core H05(07) V-U	mm²	0.5...10
Stranded H07 V-R	mm ²	...6
Flexible H05(07) V-K	mm ²	0.5...6
Flexible with ferrule	mm ²	0.5...6
Ferrule with plastic collar	mm ²	
Stripping length	mm	13
Screwdriver blade	mm	0.8 x 4.0
According to norm		
Tightening torque range	Nm	0.8...1.8
Rated current, max.	A	41
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	6
Overtolerance category	III	III II
Pollution severity	3	2 2
Rated voltage	V	500
Rated impulse voltage	kV	6
UL / CUL (Use Group)	B C D	
Rated voltage	V	300
Rated current	A	50
AWG conductor	AWG	22-10
CSA (Use Group)	B C D	
Rated voltage	V	300
Rated current	A	50
AWG conductor	AWG	22-10
General data		
Type of insulation material		Wemid (PA)
UL 94 flammability rating		V-0
Contact base material		E-Cu
Material of contact surface		tinned
Pin dimensions = d	mm	
Solder eyelet Ø = D	mm	
Solder eyelet Ø tolerance	mm	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Distance plate		Order No.
	DP VWGK 6 SW	1250630000
	DP VWGK6	1965750000
Screwdriver		
	SDIS 0.8X4.0X100	9008400000
Identification systems		
	DEK 5/5 MC-10 NE WS	1609801044
	DEK 5/6 MC NE WS	1609820000
	DEK 5/8 MC NE WS	1856740000

Ordering data

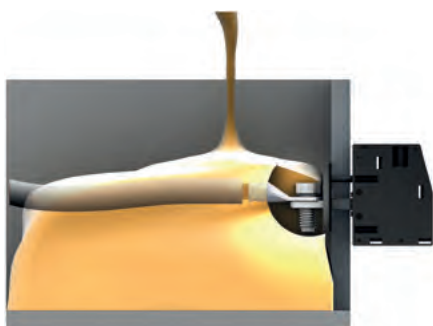
With lock pins		
Type	Qty.	Order No.
VWGK 6 SW	50	1250640000
VWGK 6 GN/YE	50	1965730000
VWGK 6	50	1965740000

Variants

The WGK...VP, VWGK 4 and VWGK 6 variants of the WGK series, with an insulating housing and clamping yoke connection on the outside, are specially enhanced for use in potted and through-panel applications.

These products are developed for 100 % sealing in completely enclosed units..

WGK variants are used, for example, as device connections for EMC filters or fully insulated transformers.



Clamping yoke screw connection

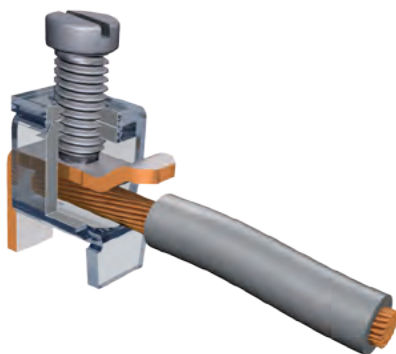
The clamping yoke connection is a proven connection in use around the world today.

Steel clamping yokes made using a stamping and bending process guarantee a vibration proof clamp connection.

When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area which prevents the connection accidentally loosening.

As the screw thread is on an inclined plane, the force is amplified and a very high clamping force is achieved.

Weidmüller uses hardened steel with optimised corrosion protection for stability and safety in addition to copper alloys in the contact area for good electrical conductivity.



Through-Panel Terminals for devices Series WGK - connects up to 95 mm²

Max. clamping range: 16 mm²



The high-current feed-through terminals of the WGK series provide a universal solution for feeding currents of different magnitude through the enclosure wall.

Different types of connection on the inside, such as a solder connection which can be encapsulated (WGK ...VP) or a maintenance-free clamping yoke screw connection (WGK...) with vertical and horizontal wire connections, provide the optimal connection for any installation situation.

Terminals with locking pins are available for simple and fast assembly of multi-pole blocks.

Product data

IEC: 500 V / 57 A / 0.5 - 16 mm²
UL: 300 V / 65 A / AWG 24 - 6



For additional articles and information, refer to catalog.weidmueller.com

Note:

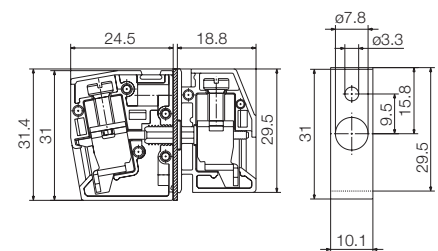
- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green yellow; none = grey
- Additional colours on request
- WGK: Rated voltage plastic walls: 1 - 4 mm = 500 V; metal walls: 1 - 2.5 mm = 400 V; metal walls: 2.5 - 4 mm = 250 V

WGK 10

Screw connection



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.5...16
Solid core H05(07) V-U	mm²	0.5...16
Stranded H07 V-R	mm ²	10...16
Flexible H05(07) V-K	mm ²	0.5...10
Flexible with ferrule	mm ²	0.5...10
Ferrule with plastic collar	mm ²	
Stripping length	mm	11
Screwdriver blade	mm	0.8 x 4.0

According to norm

Tightening torque range	Nm	5...7
Rated current, max.	A	57
At ambient temperature	20°C	40°C
For conductor cross-section	mm ²	10
Overvoltage category	III	III II
Pollution severity	3	2 2

Rated voltage	V	500
Rated impulse voltage	kV	6

UL / CUL (Use Group)

Rated voltage	V	300
Rated current	A	65
AWG conductor	AWG	24-6

CSA (Use Group)

Rated voltage	V	300
Rated current	A	65
AWG conductor	AWG	24-6

General data

Type of insulation material	Wemid (PA)
UL 94 flammability rating	V-0
Contact base material	E-Cu
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Distance plate	Order No.
DP WGK 10	1936440000
DP WGK 10 SW	1250570000
DP WGKV 10	1936460000

Screwdriver	Order No.
SDIS 0.8X4.0X100	9008400000

Identification systems	Order No.
DEK 5/5 MC-10 NE WS	1609801044
DEK 5/6 MC NE WS	1609820000
DEK 5/8 MC NE WS	1856740000

Ordering data

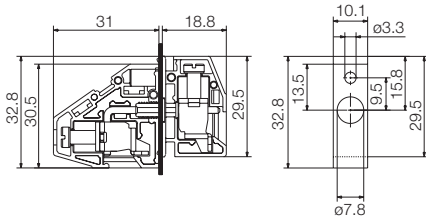
		With lock pins	No lock pins
Type	Qty.	Order No.	Order No.
WGK 10/Z SW	50	1250890000	
WGK 10/Z gn/ye	50	1936520000	
WGK 10/Z	50	1936530000	
WGK 10 SW	50		1250880000
WGK 10 GN/YE	50		1936500000
WGK 10	50		1936510000

WGKV 10

Screw connection



Dimensioned drawing



Ordering data

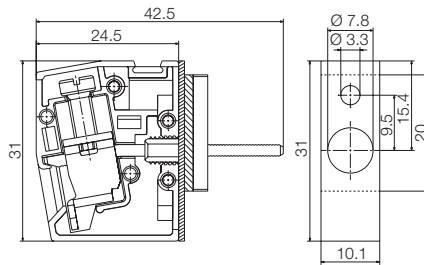
Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGKV 10/Z SW	50	1250920000			
WGKV 10/Z gn/ye	50	1936590000			
WGKV 10/Z	50	1936600000			
WGKV 10 SW	50		1250910000		
WGKV 10 gn/ye	50		1936580000		
WGKV 10	50		1934060000		

For the rated voltage of plastic and metal walls, see the "WGK" notes

WGK 10 VP



Dimensioned drawing



Ordering data

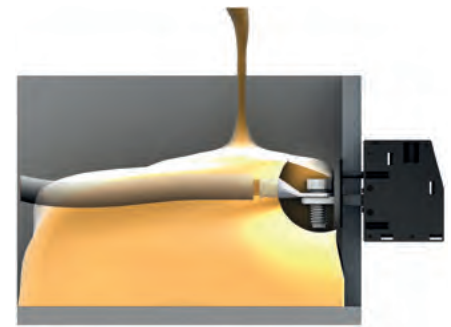
Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGK 10 VP/Z BK	50	1469900000			
WGK 10 VP/Z GN/YE	50	1003970000			
WGK 10 VP/Z	50	1003920000			
WGK 10 VP BK	50		1469890000		
WGK 10 VP GN/YE	50		1003960000		
WGK 10 VP	50		1981880000		

For the rated voltage of plastic and metal walls, see the "WGK" notes

Variants

The WGK...VP, VWGK 4 and VWGK 6 variants of the WGK series, with an insulating housing and clamping yoke connection on the outside, are specially enhanced for use in potted and through-panel applications. These products are developed for 100 % sealing in completely enclosed units..

WGK variants are used, for example, as device connections for EMC filters or fully insulated transformers.



Clamping yoke screw connection

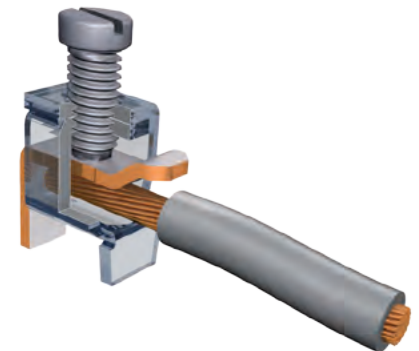
The clamping yoke connection is a proven connection in use around the world today.

Steel clamping yokes made using a stamping and bending process guarantee a vibration proof clamp connection.

When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area which prevents the connection accidentally loosening.

As the screw thread is on an inclined plane, the force is amplified and a very high clamping force is achieved.

Weidmüller uses hardened steel with optimised corrosion protection for stability and safety in addition to copper alloys in the contact area for good electrical conductivity.



Through-Panel Terminals for devices Series WGK - connects up to 95 mm²

Max. clamping range: 25 mm²



The high-current feed-through terminals of the WGK series provide a universal solution for feeding currents of different magnitude through the enclosure wall.

Various types of connection on the inside, such as cable lug connections which can be encapsulated (WGK ...VP) and maintenance-free clamping yoke screw connections (WGK...) with vertical and horizontal wire insertion provide the optimal connection for any installation situation.

Terminals with locking pins are available for simple and fast assembly of multi-pole blocks.

Product data

IEC: 500 V / 76 A / 0.5 - 16 mm²
UL: 600 V / 85 A / AWG 20 - 4



For additional articles and information, refer to catalog.weidmueller.com

Note:

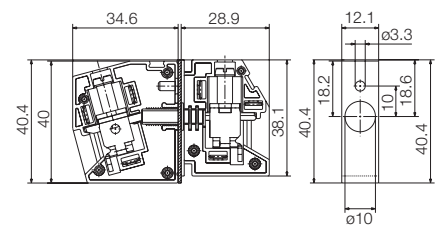
- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green yellow; none = grey
- Additional colours on request
- WGK: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 2.5 mm = 800 V; metal walls: 2.5 - 4 mm = 690 V; metal walls: 4 - 6 mm = 500 V

WGK 16

Screw connection



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.5...25
Solid core H05(07) V-U	mm²	0.5...16
Stranded H07 V-R	mm ²	10...25
Flexible H05(07) V-K	mm ²	0.5...16
Flexible with ferrule	mm ²	0.5...16
Ferrule with plastic collar	mm ²	
Stripping length	mm	16
Screwdriver blade	mm	1.0 x 5.5
According to norm		
Tightening torque range	Nm	2...2.3
Rated current, max.	A	76
At ambient temperature		20°C 40°C
For conductor cross-section	mm ²	16
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage	V	500
Rated impulse voltage	kV	6
UL / CUL (Use Group)	B C D	

Rated voltage	V	600
Rated current	A	85
AWG conductor	AWG	20-4
CSA (Use Group)	B C D	

Rated voltage	V	600
Rated current	A	85
AWG conductor	AWG	20-4

General data

Type of insulation material	Wemid (PA)
UL 94 flammability rating	V-0
Contact base material	E-Cu
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Distance plate	Order No.
DP WGK 16	1936700000
DP WGK 16 SW	1250580000
Screwdriver	
SDIS 1.0X5.5X125	9008410000
Identification systems	
DEK 5/5 MC-10 NE WS	1609801044
DEK 5/6 MC NE WS	1609820000
DEK 5/8 MC NE WS	1856740000

Ordering data

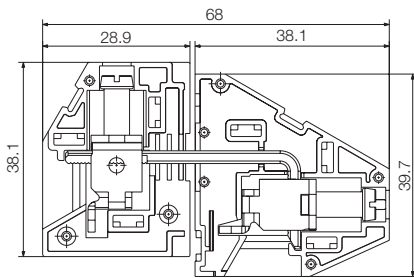
Type	Qty.	Order No.	Order No.
WGK 16/Z SW	50	1250870000	
WGK 16/Z gn/ye	50	1936820000	
WGK 16/Z	50	1936830000	
WGK 16 SW	50		1250860000
WGK 16 gn/ye	50		1936760000
WGK 16	50		1936810000

WGKV 16

Screw connection



Dimensioned drawing

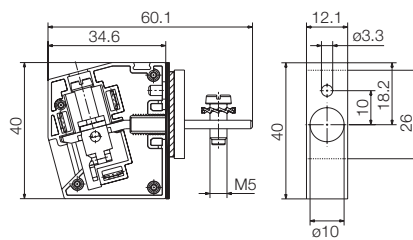


WGK 16 VP

Cable lug connection



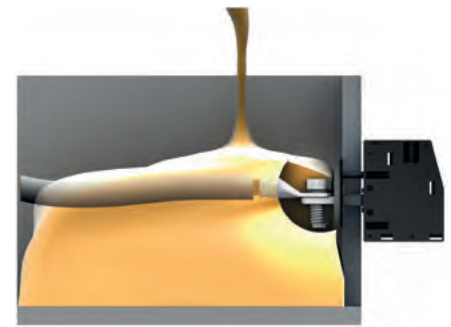
Dimensioned drawing



Variants

The WGK...VP, VWGK 4 and VWGK 6 variants of the WGK series, with an insulating housing and clamping yoke connection on the outside, are specially enhanced for use in potted and through-panel applications. These products are developed for 100 % sealing in completely enclosed units..

WGK variants are used, for example, as device connections for EMC filters or fully insulated transformers.



Ordering data

Type	Qty.	With lock pins	No lock pins
		Order No.	Order No.
WGKV 16/Z SW	50	1250850000	
WGKV 16/Z GN/YE	50	1003930000	
WGKV 16/Z	50	1003940000	
WGKV 16 SW	50		1250840000
WGKV 16 GN/YE	50		1003950000
WGKV 16	50		1003880000

Ordering data

Type	Qty.	With lock pins	No lock pins
		Order No.	Order No.
WGK 16 VP/Z SW	50	1250830000	
WGK 16 VP/Z GN/YE	50	1936790000	
WGK 16 VP/Z	50	1936800000	
WGK 16 VP SW	50		1250820000
WGK 16 VP GN/YE	50		1936770000
WGK 16 VP	50		1936780000

Clamping yoke screw connection

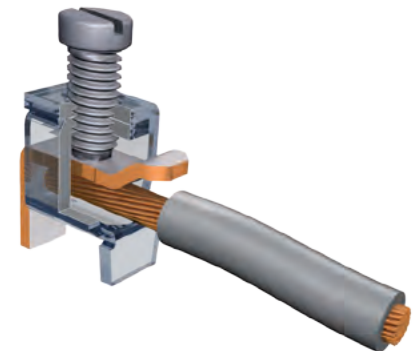
The clamping yoke connection is a proven connection in use around the world today.

Steel clamping yokes made using a stamping and bending process guarantee a vibration proof clamp connection.

When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area which prevents the connection accidentally loosening.

As the screw thread is on an inclined plane, the force is amplified and a very high clamping force is achieved.

Weidmüller uses hardened steel with optimised corrosion protection for stability and safety in addition to copper alloys in the contact area for good electrical conductivity.

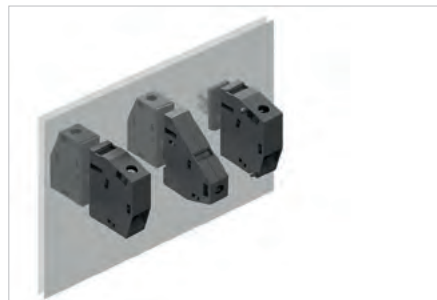


For the rated voltage of plastic and metal walls, see the "WGK" notes

For the rated voltage of plastic and metal walls, see the "WGK" notes

Through-Panel Terminals for devices Series WGK - connects up to 95 mm²

Max. clamping range: 35 mm²



The high-current feed-through terminals of the WGK series provide a universal solution for feeding currents of different magnitude through the enclosure wall.

Various types of connection on the inside, such as cable lug connections which can be encapsulated (WGK...VP) and maintenance-free clamping yoke screw connections (WGK...) with vertical and horizontal wire insertion provide the optimal connection for any installation situation.

Terminals with locking pins are available for simple and fast assembly of multi-pole blocks.

Product data

IEC: 690 V / 101 A / 6 - 16 mm²
UL: 600 V / 100 A / AWG 10 - 3



For additional articles and information, refer to catalog.weidmueller.com

Note:

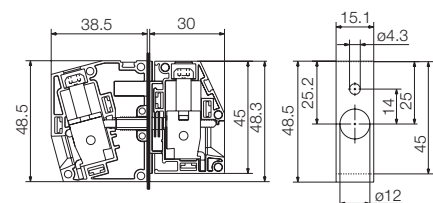
- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green yellow; none = grey
- Additional colours on request
- WGK: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 4 mm = 800 V; metal walls: 4 - 6 mm = 690 V
- WGKV: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 4 mm = 800 V; metal walls: 4 - 6 mm = 690 V
- WGK...VP: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 2.5 mm = 800 V; metal walls: 2.5 - 4 mm = 690 V; metal walls: 4 - 6 mm = 500 V

WGK 25

Screw connection



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	4...35	
Solid core H05(07) V-U	mm ²	6...16	
Stranded H07 V-R	mm ²	10...35	
Flexible H05(07) V-K	mm ²	6...16	
Flexible with ferrule	mm ²	4...25	
Ferrule with plastic collar	mm ²		
Stripping length	mm	18	
Screwdriver blade	mm	1.2 x 6.5	
According to norm			
Tightening torque range	Nm	4...4.5	
Rated current, max.	A	101	
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	25	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	690	
Rated impulse voltage	kV	6	
UL / CUL (Use Group)		B C D	
Rated voltage	V	600	
Rated current	A	100	
AWG conductor	AWG	10-3	
CSA (Use Group)		B C D	
Rated voltage	V	600	
Rated current	A	100	
AWG conductor	AWG	10-3	
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Distance plate		Order No.
	DP WGK 25	1936710000
	DP WGK 25 SW	1250590000
	DP WGKV 25	1936690000
Screwdriver		
	SDIS 1.2X6.5X150	9008420000
Identification systems		
	DEK 5/5 MC-10 NE WS	1609801044
	DEK 5/6 MC NE WS	1609820000
	DEK 5/8 MC NE WS	1856740000

Ordering data

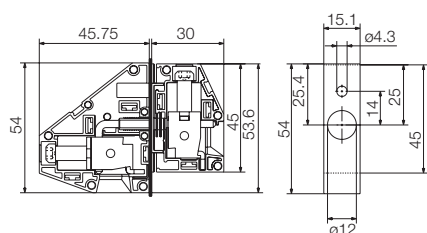
		With lock pins	No lock pins
Type	Qty.	Order No.	Order No.
WGK 25/Z SW	50	1250810000	
WGK 25/Z GN/YE	50	1936900000	
WGK 25/Z	50	1936910000	
WGK 25 SW	50		1250790000
WGK 25 GN/YE	50		1936840000
WGK 25	50		1936850000

WGKV 25

Screw connection



Dimensioned drawing

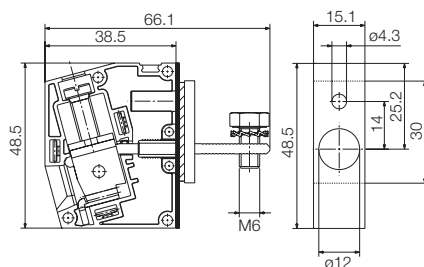


WGK 25 VP

Cable lug connection



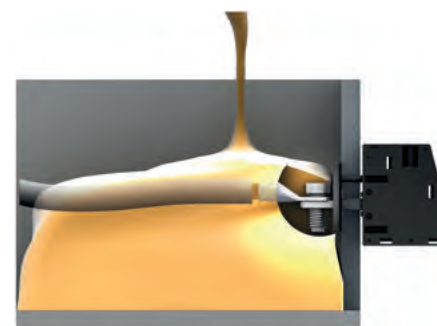
Dimensioned drawing



Variants

The WGK...VP, VWGK 4 and VWGK 6 variants of the WGK series, with an insulating housing and clamping yoke connection on the outside, are specially enhanced for use in potted and through-panel applications. These products are developed for 100 % sealing in completely enclosed units..

WGK variants are used, for example, as device connections for EMC filters or fully insulated transformers.



Ordering data

Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGKV 25/Z SW	25	1250780000			
WGKV 25/Z gn/ye	25	1936740000			
WGKV 25/Z	25	1936750000			
WGKV 25 SW	25		1250770000		
WGKV 25 gn/ye	25		1936720000		
WGKV 25	25		1934070000		

Ordering data

Type	Qty.	With lock pins		No lock pins	
		Order No.	Order No.	Order No.	Order No.
WGK 25 VP/Z SW	50	1250760000			
WGK 25 VP/Z GN/YE	50	1936880000			
WGK 25 VP/Z	50	1936890000			
WGK 25 VP SW	50		1250750000		
WGK 25 VP GN/YE	50		1936860000		
WGK 25 VP	50		1936870000		

Clamping yoke screw connection

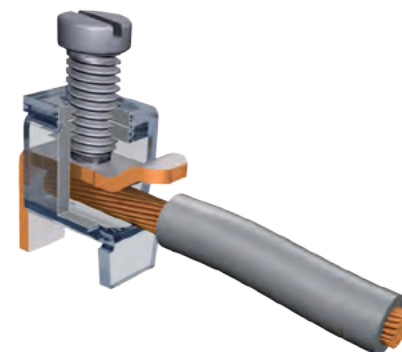
The clamping yoke connection is a proven connection in use around the world today.

Steel clamping yokes made using a stamping and bending process guarantee a vibration proof clamp connection.

When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area which prevents the connection accidentally loosening.

As the screw thread is on an inclined plane, the force is amplified and a very high clamping force is achieved.

Weidmüller uses hardened steel with optimised corrosion protection for stability and safety in addition to copper alloys in the contact area for good electrical conductivity.



Rated voltage for plastic and metal walls such as WGK

Through-Panel Terminals for devices Series WGK - connects up to 95 mm²

Max. clamping range: 50 mm²



The high-current feed-through terminals of the WGK series provide a universal solution for feeding currents of different magnitude through the enclosure wall.

Various types of connection on the inside, such as cable lug connections which can be encapsulated (WGK ...VP) and maintenance-free clamping yoke screw connections (WGK...) provide the optimal connection for any installation situation.

Terminals with locking pins are available for simple and fast assembly of multi-pole blocks.

Product data

IEC: 690 V / 150 A / 16 - 50 mm²
UL: 600 V / 145 A / AWG 6 - 1/0



For additional articles and information, refer to
catalog.weidmueller.com

Note:

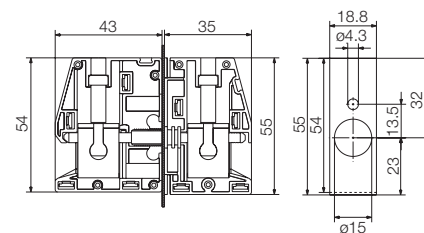
- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Colours: SW = black; GN/YL = green yellow; none = grey
- Additional colours on request
- WGK: Rated voltage plastic walls: 1 - 6 mm = 800 V; metal walls: 1 - 2.5 mm = 800 V; metal walls: 2.5 - 6 mm = 690 V

WGK 50

Screw connection



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	10...50	
Solid core H05(07) V-U	mm²	16...50	
Stranded H07 V-R	mm ²	16...50	
Flexible H05(07) V-K	mm ²	16...50	
Flexible with ferrule	mm ²	10...50	
Ferrule with plastic collar	mm ²		
Stripping length	mm	24	
Screwdriver blade	mm	1.2 x 6.5	
According to norm			
Tightening torque range	Nm	4...8	
Rated current, max.	A	150	
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	50	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	690	
Rated impulse voltage	kV	6	
UL / CUL (Use Group)	B C D		
Rated voltage	V	600	
Rated current	A	145	
AWG conductor	AWG	6-1/0	
CSA (Use Group)	B C D		
Rated voltage	V	600	
Rated current	A	145	
AWG conductor	AWG	6-1/0	
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Distance plate		Order No.
	DP WGK 50	1937030000
	DP WGK 50 SW	1250610000
Screwdriver		
	SDIS 1.2X6.5X150	9008420000
Identification systems		
	DEK 5/5 MC-10 NE WS	1609801044
	DEK 5/6 MC NE WS	1609820000
	DEK 5/8 MC NE WS	1856740000

Ordering data

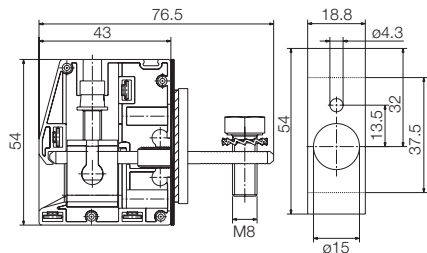
		With lock pins	No lock pins
Type	Qty.	Order No.	Order No.
WGK 50/Z SW	10	1250740000	
WGK 50/Z GN/YE	10	1937100000	
WGK 50/Z	10	1937110000	
WGK 50 SW	10		1250730000
WGK 50 GN/YE	10		1937040000
WGK 50	10		1937090000

WGK 50 VP

Cable lug connection



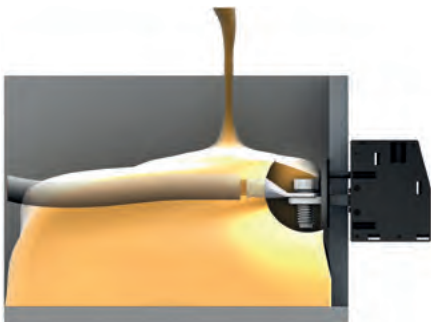
Dimensioned drawing



Variants

The WGK...VP, VWGK 4 and VWGK 6 variants of the WGK series, with an insulating housing and clamping yoke connection on the outside, are specially enhanced for use in potted and through-panel applications. These products are developed for 100 % sealing in completely enclosed units..

WGK variants are used, for example, as device connections for EMC filters or fully insulated transformers.



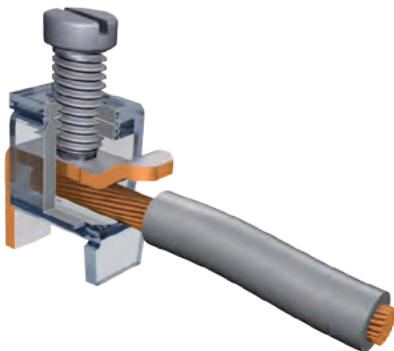
Ordering data

		With lock pins	No lock pins
Type	Qty.	Order No.	Order No.
WGK 50 VP/Z SW	10	1250720000	
WGK 50 VP/Z GN/YE	10	1937070000	
WGK 50 VP/Z	10	1937080000	
WGK 50 VP SW	10		1250710000
WGK 50 VP GN/YE	10		1937050000
WGK 50 VP	10		1937060000

Clamping yoke screw connection

The clamping yoke connection is a proven connection in use around the world today. Steel clamping yokes made using a stamping and bending process guarantee a vibration proof clamp connection. When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area which prevents the connection accidentally loosening. As the screw thread is on an inclined plane, the force is amplified and a very high clamping force is achieved. Weidmüller uses hardened steel with optimised corrosion protection for stability and safety in addition to copper alloys in the contact area for good electrical conductivity.

For the rated voltage of plastic and metal walls, see the "WGK" notes



Various types of connection on the inside, such as cable lug connections which can be encapsulated (WKG ...VP) and maintenance-free clamping yoke screw connections (WKG...) provide the optimal connection for any installation situation.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	35...95	
Solid core H05(07) V-U	mm²	35...95	
Stranded H07 V-R	mm ²	35...95	
Flexible H05(07) V-K	mm ²	35...95	
Flexible with ferrule	mm ²	35...95	
Ferrule with plastic collar	mm ²		
Stripping length	mm	27	
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm	15...20	
Rated current, max.	A	232	
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	95	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	1000	
Rated impulse voltage	kV	8	
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	
Rated current	A	230	
AWG conductor	AWG	4-4/0	
CSA (Use Group)		B	C D
Rated voltage	V	600	
Rated current	A	230	
AWG conductor	AWG	4-4/0	
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

IEC: 1000 V / 232 A / 35 - 95 mm²
UL: 600 V / 230 A / AWG 4 - 4/0



Note:

- WGK 95**



Note: Refer to the Accessories chapter for additional accessories.

Distance plate			Order No.
	DP WGK 95		1937020000
	DP WGK 95 SW		1250620000
Identification systems			
	DEK 5/5 MC-10 NE WS		1609801044
	DEK 5/6 MC NE WS		1609820000
	DEK 5/8 MC NE WS		1856740000

		With lock pins	No lock pins
Type	Qty.	Order No.	Order No.
WGK 95/Z SW	10	1250690000	
WGK 95/Z GN/YE	10	1937390000	
WGK 95/Z	10	1937400000	
WGK 95 SW	10		1250680000
WGK 95 GN/YE	10		1937370000
WGK 95	10		1937380000



Technical drawing of the 100.7 pump assembly, showing front and side views with dimensions in millimeters.

Front View Dimensions:

- Overall width: 91
- Distance from left edge to center of M6 screw: 50
- Overall height: 74
- Distance from bottom edge to center of M10 screw: 100.7
- Thread specifications: M6 and M10

Side View Dimensions:

- Overall width: 21
- Distance from front face to center of top hole: 24.9
- Distance from front face to center of bottom hole: 37.4
- Distance between hole centers: 26
- Distance from front face to end face: 50
- Distance from end face to center of bottom hole: 49.9
- Distance from front face to center of M6 screw: 74
- Distance from front face to center of M10 screw: 10.0
- Thread specification: M6.6

With lock pins	No lock pins
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OMNIMATE Power Accessories

OMNIMATE Power Accessories	Strain relief	K.2
	Shielding	K.3
	Coding elements	K.4
	Anti-twist mechanism	K.4
	Test plug	K.4
	Screwdrivers	K.5
	Identification systems	K.6

Strain relief

BV/SV 7.62HP/02 ZE GR

Strain relief



BV/SV 7.62HP/04 ZE GR

Strain relief



Ordering data

Colour	grey	
Type	Qty.	Order No.
BV/SV 7.62HP/02 ZE GR		1937550000

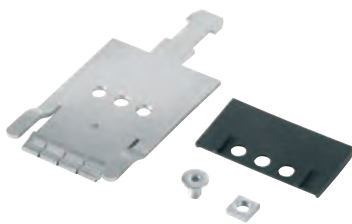
Ordering data

Colour	grey	
Type	Qty.	Order No.
BV/SV 7.62HP/04 ZE GR		1937560000



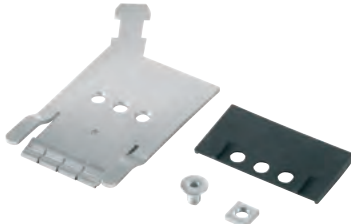
BVF 7.62HP SH180 4-6 KIT

Shield support



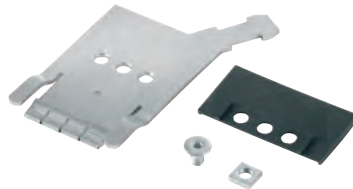
BVF 7.62HP SH150 4-6 KIT

Shield support



BVF 7.62HP SH150 4-6 KIT

Shield support



Ordering data

Colour	grey	
Type	Qty.	Order No.
BVF 7.62HP SH180 4-6 KIT		1118470000

Ordering data

Colour	grey	
Type	Qty.	Order No.
BVF 7.62HP SH150 4-6 KIT		1118480000

Ordering data

Colour	grey	
Type	Qty.	Order No.
BVF 7.62HP SH210 4-6 KIT		1118490000

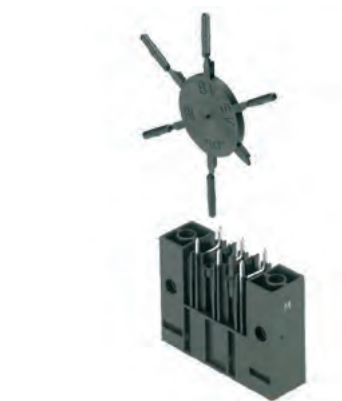
BV/SV 7.62 KO

Coding element



BV/SV 7.62 KO

Anti-twist mechanism



PS 2.0 MC

Test plug



- For conductors up to 0.75 mm² (AWG 18).
- Gold-plated lantern-type contact.
- Conductor must be soldered to contact in test plug.

Ordering data

Typ	Qty.	Order No.
BV/SV 7.62HP KO	100	1937590000

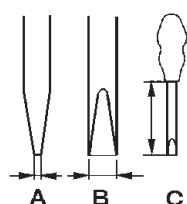
Ordering data

Type	Qty.	Order No.
SV 7.62 VDS	1	1853940000

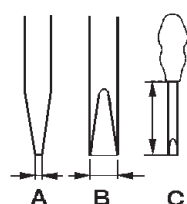
Ordering data

Typ	Wire cross-sections	Qty.	Order No.
PS 2.0 MC	≤ 0,75 mm ²	20	0310000000



SDI**VDE-insulated slotted screwdriver****VDE-insulated slotted screwdriver, SDI**

- DIN 7437, ISO 2380/2
- Output acc. to DIN 5264, ISO 2380/1
- SoftFinish® handle

**SD****Slotted screwdriver with round blade****Slotted screwdriver with round blade, SD**

- DIN 5265, ISO 2380/2
- Output acc. to DIN 5264, ISO 2380/1
- ChromTop tip
- SoftFinish® handle

**SDK PH/PZ****Crosshead screwdriver****Crosshead screwdriver PH (Philips)**

- SDK PH DIN 5262, ISO 8764/2-PH
- Output acc. to ISO 8764-PH
- ChromTop tip
- SoftFinish® grip

**Crosshead screwdriver PZ (Pozidrive)**

- SDK PZ DIN 5262, ISO 8764/2-PZ
- Output acc. to ISO 8764-PZ
- ChromTop tip
- SoftFinish® grip

**Ordering data**

Type	Dims. (mm)	A	B	C	Order No.
SDI		0,4	2,5	75	9008370000
SDI		0,5	3,0	100	9008380000
SDI		0,6	3,5	100	9008390000
SDI		0,8	4,0	100	9008400000
SDI		1,0	4,5	125	9008910000
SDI		1,0	5,5	125	9008410000
SDI		1,2	6,5	150	9008420000
SDI		1,6	8,0	175	9008430000

Ordering data

Typ	Dims. (mm)	A	B	C	Order No.
SD		0,4	2,5	75	9009030000
SD		0,5	3,0	80	9008320000
SD		0,6	3,5	100	9008330000
SD		0,8	4,0	100	9008340000
SD		0,8	4,5	125	9009020000
SD		1,0	5,5	150	9008350000
SD		1,2	6,5	150	9009010000

Ordering data PH

Type	Dims. (mm)	A	B	C	Order No.
SDK PH0	0			60	9008470000
SDK PH1	1			80	9008480000
SDK PH2	2			100	9008490000
SDK PH3	3			150	9008500000

Ordering data PZ

Type	Dims. (mm)	A	B	C	Order No.
SDK PZ1	1			80	9008530000
SDK PZ2	2			100	9008540000
SDK PZ3	3			150	9008550000

Identification systems

KSW 4 / KSW 2.5

Marking strips



KSW marking strips are suitable for labelling multi-pole PCB terminals and connectors.

The white, self-adhesive strips are made from a non-PVC, environmentally friendly material. These marking strips provide individual printing, i.e. are suitable for every pitch. Available in two widths: 2.5 and 4.0 mm.

Technical data

Material data	
Material	polyester with white surface
Adhesive	acrylic base
Temperature range	-40 °C to +150 °C
Min. bonding temperature	+4 °C
Flammability	self-extinguishing after 15 s

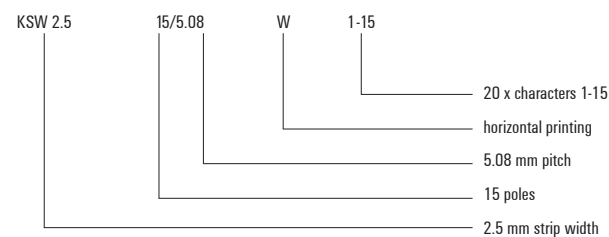
No. of marking strips per sheet

up to 20 poles = 20 strips per sheet

* more than 20 poles = 15 strips per sheet

Ordering example

Order No. 1630060001



Printed strips

KSW 4		Pitch
Char.	7.62 mm	
1-8	1700680001	
1-12	1652270001	
1-16	-	
1-24*	-	
KSW 2.5		Pitch
Char.	7.62 mm	
1-8	-	
1-12	-	
1-16	-	
1-24*	-	

Blank strips

	Length of strip		
	50 mm	100 mm	150 mm
KSW 4	1629970000	1629990000	1630010000
KSW 2.5	1629960000	1629980000	1630000000

Custom printing to specification

	Length of strip		
	50 mm	100 mm	150 mm
KSW 4	1629910000	1629930000	1629950000
KSW 2.5	1629900000	1629920000	1629940000

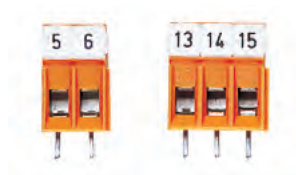
Direct printing



We can also print directly on your plug and socket connectors to your specification. Please ask for details.

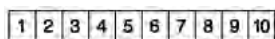
DEK 5

Dekafix system

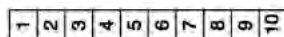


Dekafix is supplied in packs of 10 cards with 50 individual tags per card.

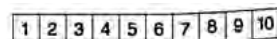
Dekafix tags are white with black printing as standard.



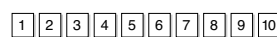
Horizontal printing



Vertical printing



Mounted as strip



Mounted singly

Technical data

Material data	
Material	polyamide
Temperature range	- 40 °C to +100 °C
Flammability rating	UL 94 V-2
Contents	silicone-free, halogens below minimum detectable level self-extinguishing after 15 s
Mounting	as strips or singly depending on type of carrier
Printing	black printing, standard or to customer specification
Smudge resistance	to DIN IEC 50
Custom printing	according to list or data exchange by diskette or modem
Colour	to international colour code
Max. characters DEK 5	3 horizontal/3 vertical up to 2.5 mm font size

Custom printing to specification

Colour	Order No.	Colour	Order No.	Colour	Order No.	Qty. 500
(Note: please state colour when ordering.)						
○ white	1609810000	● yellow	1609810000	● violet	1609810000	
● black	1609810000	● green	1609810000	● grey	1609810000	
● red	1609810000	● blue	1609810000	● orange	1609810000	

Blank

Colour	Order No.	Colour	Order No.	Colour	Order No.	Qty. 500
● black	1457550000	● yellow	1609801687	● violet	1249860000	
● red	1609801686	● green	1609801688	● grey	1609801691	
● orange	1238340000	● blue	1609801693	○ white	0473360000	

Printed tags

(horizontal only)	Character	Order No.	Character	Horizontal	Vertical
Tags with individual letters	A	0522761021	1 ... 50	0473460001	0473560001
	B	0522761022	51 ... 100	0473460051	0473560051
	C	0522761023	to	The last 3 digits of the order No. indicate the first character.	
	D	0522761024	951 ... 999	0473460951	0473560951
	E	0522761025	1 ... 10	0523060001	0460660001
	F	0522761026	11 ... 20	0523060011	0460660011
	G	0522761027	to	The last 3 digits of the order No. indicate the first character.	
	H	0522761028	91 ... 100	0523060091	0460660091
	I	0522761029	1	0522660001	-
	J	0522761030	2	0522660002	-
	K	0522761031	bis	The last 3 digits of the order No. indicate the first character.	
	L	0522761032	200	0522660200	-
	M	0522761033	L1, L2, L3, N, PE	0354361187	-
	N	0522761034			
	O	0522761035			
	P	0522761036	Single symbols	plus +	0576261198
	Q	0522761037		minus -	0576261199
	R	0522761038		PE	-
	S	0522761039		L1	0522361075
	T	0522761040		L2	0522361076
	U	0522761041		L3	0522361077
	V	0522761042		earth	0576261202
	W	0522761043		earth in circle	0576261203
	X	0522761044		AC ~	0576261215
	Y	0522761045	Individual card (state characters and orientation when ordering)	1609810000	1609810000
	Z	0522761046	Coloured blank Dekafix (state colour when ordering)	1609801044	1609801044
			Coloured printed Dekafix = custom printing		
			(state colour and characters when ordering)	0490790000	0490790000

