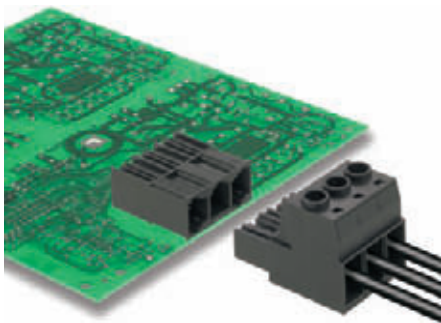


Powermate Range pitch 10.16

Powermate Range pitch 10.16	Male connectors with solder connection	K.2
	Socket connectors with clamping yoke connection	K.8

SU 10.16/90



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

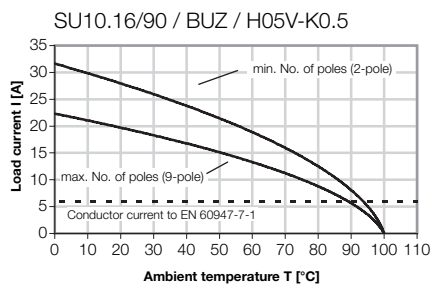
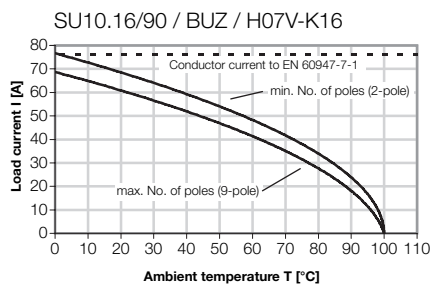
- 1000 V (IEC) / 600 V (UL)
- 69 A (IEC) / 54 A (UL)

Technical data

Rated data to IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²		
Solid H05(07) V-U	mm ²		
Stranded H07 V-R	mm ²		
Flexible H05(07) V-K	mm ²		
Flexible with ferrule	mm ²		
Ferrule with plastic collar	mm ²		
Stripping length	mm		
Screwdriver blade	mm		
according to norm			
Tightening torque range	Nm		
Rated current		20°C	40°C
at ambient temperature			
	A	69	60
Overvoltage category		III	II
Pollution severity		3	2
Rated voltage	V	690	1000
Rated impulse voltage	kV	8	6
UL 1059 rated data - E60693		B	D
Rated voltage	V	300	600
Rated current	A	54	5
CSA C22.2 rated data - LR12400 B		B	D
Rated voltage	V	300	600
Rated current	A	54	5
Material data			
Type of insulating material		PBT GF	
Flammability class acc. UL94		V-0	
Contact base material		Cu alloy	
Material of contact surface		silver-plated	
Information			

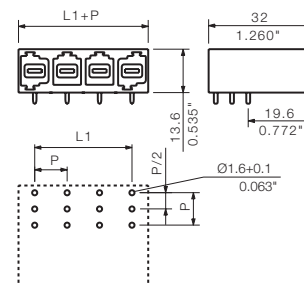
- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- The data given under CSA relates to a cUL approval - E60693
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed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

Derating curve



SU 10.16/90

without flanges

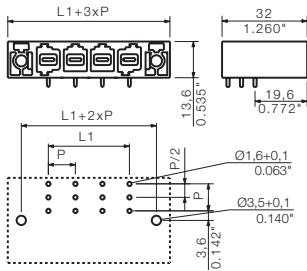


Ordering data

[illegible]

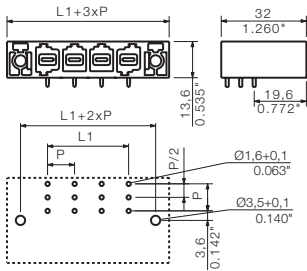
SU 10.16/90 F

Interlock flanges



SU 10.16/90SF

Interlock flanges with nuts



Accessories

Coding

See chapter accessories
Order No. 1824410000



Ordering data

Solder pin length		3.5 mm
Colour		black
Pitch 10.16 mm		
Poles	L1 mm (inch)	Qty. Order No. 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

Ordering data

Solder pin length		3.5 mm
Colour		black
Pitch 10.16 mm		
Poles	L1 mm (inch)	Qty. Order No. 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

Male connectors with solder connection

SU 10.16/180



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

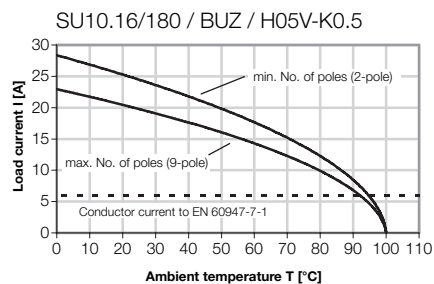
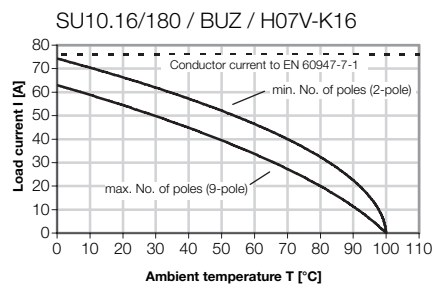
- 1000 V (IEC) / 600 V (UL)
- 65 A (IEC) / 54 A (UL)

Technical data

Rated data to IEC 60664-1 / IEC 61984				
Clamping range, max.	mm ²			
Solid H05(07) V-U	mm ²			
Stranded H07 V-R	mm ²			
Flexible H05(07) V-K	mm ²			
Flexible with ferrule	mm ²			
Ferrule with plastic collar	mm ²			
Stripping length	mm			
Screwdriver blade	mm			
according to norm				
Tightening torque range	Nm			
Rated current at ambient temperature		20°C	40°C	
	A	65	56	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	V	690	1000	1000
Rated impulse voltage	kV	8	8	6
UL 1059 rated data - E60693		B	C	D
Rated voltage	V	300	300	600
Rated current	A	54	54	5
AWG conductor				
CSA C22.2 rated data - LR12400 B		B	C	D
Rated voltage	V	300	300	600
Rated current	A	54	54	5
AWG conductor				
Material data				
Type of insulating material		PBT GF		
Flammability class acc. UL94		V-0		
Contact base material		Cu alloy		
Material of contact surface		silver-plated		
Information				

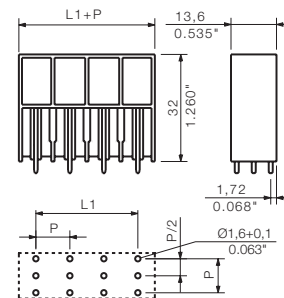
- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- The data given under CSA relates to a cUL approval - E60693
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed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

Derating curve



SU 10.16/180G

without flanges

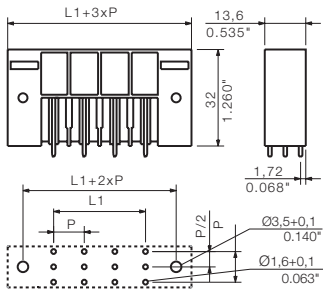


Ordering data

[illegible]

SU 10.16/180F

Interlock flanges

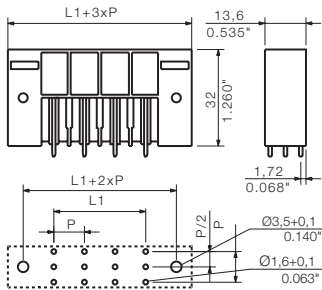


Ordering data

Solder pin length				3.5 mm
Colour				black
Pitch 10.16 mm				
Poles	L1 mm	(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 10.16/180SF

Interlock flanges with nuts



Ordering data

Solder pin length				3.5 mm
Colour				black
Pitch 10.16 mm				
Poles	L1 mm	(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

Accessories

Coding

See chapter accessories
Order No. 1824410000



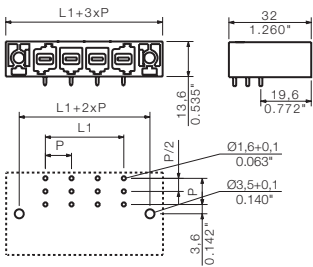
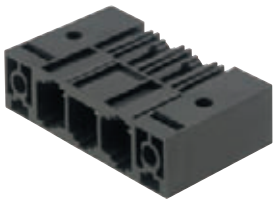
Anti-turn element

See chapter accessories
Order No. 1853940000



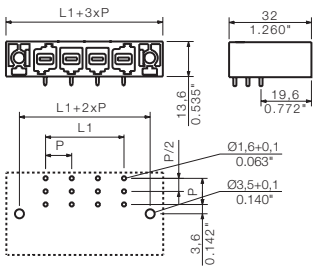
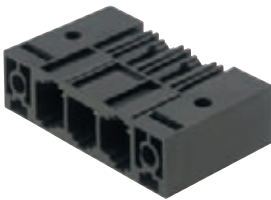
SU 10.16/270F

Interlock flanges



SU 10.16/270SF

Interlock flanges with nuts



Accessories

Coding

See chapter accessories
Order No. 1824410000



Ordering data

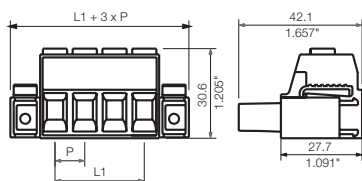
Solder pin length				3.5 mm
Colour				black
Pitch 10.16 mm				
Poles	L1 mm	(inch)	Qty.	Order No.
2	10.16	(0.400)	50	1813730000
3	20.32	(0.800)	50	1813740000
4	30.48	(1.200)	50	1813750000
5	40.64	(1.600)	20	1813760000
6	50.80	(2.000)	20	1813770000
7	60.96	(2.400)	20	1813780000
8	71.12	(2.800)	20	1813790000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

Ordering data

Solder pin length				3.5 mm
Colour				black
Pitch 10.16 mm				
Poles	L1 mm	(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

BUZ 10.16/180F

Interlock flanges



Ordering data

Solder pin length

Colour

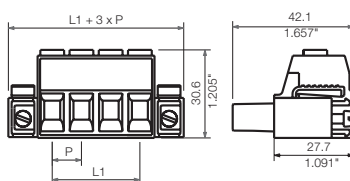
black

Pitch 10.16 mm

Poles	1 mm	(inch)	Qty.	Order No.	Order No.
2	10.16	(0.400)	50		1813890000
3	20.32	(0.800)	50		1813900000
4	30.48	(1.200)	50		1813910000
5	40.64	(1.600)	20		1813920000
6	50.80	(2.000)	20		1813930000
7	60.96	(2.400)	20		1813940000
8	71.12	(2.800)	20		1813950000
9	81.28	(3.200)	20		1813960000

BUZ 10.16/180SF

Interlock flanges with screws



Ordering data

Solder pin length

Colour

black

Pitch 10.16 mm

Poles	L1 mm	(inch)	Qty.	Order No.	Order No.
2	10.16	(0.400)	50		1850630000
3	20.32	(0.800)	50		1850640000
4	30.48	(1.200)	50		1850650000
5	40.64	(1.600)	20		1850660000
6	50.80	(2.000)	20		1850670000
7	60.96	(2.400)	20		1850680000
8	71.12	(2.800)	20		1850690000
9	81.28	(3.200)	20		1850700000

Accessories

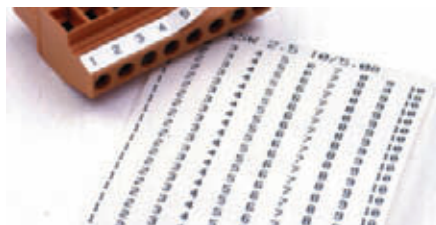
Coding

See chapter accessories
Order No. 1824410000



Marking strips

See chapter accessories



Screwdriver

See chapter accessories
Order No. 9008410000



