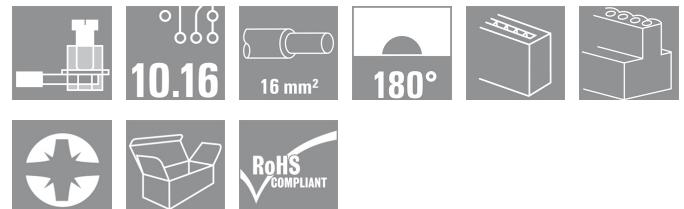


OMNIMATE Power - series BU/SU 10.16
BUZ 10.16/06/180 AG BK BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
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 Fon: +49 5231 14-0
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 www.weidmueller.com



High-current female connector with the tried-and-tested, guaranteed zero-maintenance, Weidmüller steel clamping yoke. Side-by-side mounting without losing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections or wrong wiring, unique coding diversity, 4-point silver contact.

- 0.20 - 16 mm² (IEC) / 22 - 6 AWG (UL)
- 1000 V (IEC) / 600 V (UL)
- 69 A (IEC) / 54 A (UL)

General ordering data

Order No.	1813850000
Type	BUZ 10.16/06/180 AG BK BX
Version	PCB plug-in connector, female plug, 10.16 mm, No. of poles: 6, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 16 mm ² , Box
GTIN (EAN)	4032248298075
Qty.	20 pc(s).
Product data	IEC: 1000 V / 69 A / 0.2 - 16 mm ² UL: 300 V / 54 A / AWG 22 - AWG 6
Packaging	Box

Creation date April 15, 2013 10:18:12 PM CEST

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Technical data**Dimensions and weights**

Net weight	68.6 g
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System parameters

Product family	OMNIMATE Power - series BU/SU 10.16	Wire connection method	Clamping yoke connection
Conductor outlet direction	180°	Pitch in mm (P)	10.16 mm
Pitch in inches (P)	0.4 inch	No. of poles	6
Number of rows	1	Screwdriver blade	1.0 x 5.5
Screwdriver blade standard	DIN 5264	Tightening torque, min.	1.2 Nm
Tightening torque, max.	1.5 Nm	Clamping screw	M 4
Stripping length	12 mm	L1 in mm	50.8 mm
L1 in inches	2 inch	Touch-safe protection acc. to DIN VDE 0470	IP 20
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch		

Material data

Insulating material	PBT GF	Colour	Black
Colour chart (similar)	RAL 9011	UL 94 flammability rating	V-0
CTI	≥ 200	Contact material	Cu-Leg
Contact surface	silver-plated	Continuous operating temp., min.	-25 °C
Continuous operating temp., max.	100 °C		

Connectable conductors

Clamping range, rated connection, min.	0.2 mm ²	Clamping range, rated connection, max.	16 mm ²
Wire connection cross section AWG, min.	AWG 22	Wire connection cross section AWG, max.	AWG 6
Solid, min. H05(07) V-U	0.2 mm ²	Solid, max. H05(07) V-U	16 mm ²
Stranded, max. H07V-R	16 mm ²	Stranded, min. H07V-R	6 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²	Flexible, max. H05(07) V-K	16 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	16 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.25 mm ²	w. plastic collar ferrule, DIN 46228 pt 4, max.	10 mm ²
Plug gauge acc. to EN 60999 a x b; Ø	5.3mm (B6)		

DIN IEC rating data

Rated current, min. no. of poles (Tu=20°C)	69 A	Rated current, max. no. of poles (Tu=20°C)	54 A
Rated current, number of poles (Tu=40°C), min	60 A	Rated current, number of poles (Tu=40°C), max.	47 A
Rated voltage for surge voltage class / pollution degree II/2	1,000 V	Rated voltage for surge voltage class / pollution degree III/2	1,000 V
Rated voltage for surge voltage class / pollution degree III/3	690 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV
Rated impulse voltage for surge voltage class/ pollution degree III/2	8 kV	Rated impulse voltage for surge voltage class/ contamination degree III/3	8 kV
Short-time withstand current resistance	3 x 1s mit 1000 A		

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Technical data
CSA rating data

Rated voltage (Use group B)	300 V	Rated current (use group B)	54 A
Rated voltage (Use group C)	300 V	Rated current (use group C)	54 A
Rated voltage (use group D)	600 V	Rated current (use group D)	5 A
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 6

UL 1059 rating data

Rated voltage (use group B)	300 V	Rated current (use group B)	54 A
Rated voltage (use group C)	300 V	Rated current (use group C)	54 A
Rated voltage (use group D)	600 V	Rated current (use group D)	5 A
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 6

Classifications

ETIM 3.0	EC001284	UNSPSC	30-21-18-10
eClass 4.1	27-26-07-01	eClass 5.1	27-26-07-04
eClass 6.2	27-26-07-04	eClass 7.1	27-44-04-02

Notes

Notes	<ul style="list-style-type: none"> • 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 • The data given under CSA relates to a cUL approval - E60693 • 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.
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Approvals

Approvals

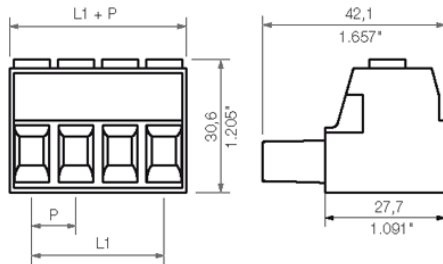


ROHS

Conform

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Drawings

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Mating connector (conditionally pluggable)
SU 10.16HP/90F


Single-row, high-current male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity and additional fixing in flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 90° to solder pins.

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

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1813610000	SU 10.16HP/06/90F 3.5AG BK BX	PCB plug-in connector, male header, Clip-on flange, Solder connection, 10.16 mm, No. of poles: 6, 90°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248297832	20 pc(s).	IEC: 1000 V / 76 A UL: 300 V / 54 A	Box

SU 10.16HP/270SF


Single-row, high-performance male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity and additional fixing in flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 270° to solder pins.

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

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1851160000	SU 10.16HP/06/270SF 3.5AG BK BX	PCB plug-in connector, male header, Screw/clip-on flange, Solder connection, 10.16 mm, No. of poles: 6, 270°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248382125	20 pc(s).	IEC: 1000 V / 76 A UL: 300 V / 54 A	Box

**OMNIMATE Power - series BU/SU 10.16
BUZ 10.16/06/180 AG BK BX**

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Mating connector (conditionally pluggable)
SU 10.16HP/180F


Single-row, high-current male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity, additional fixing and integral positioning aid. 3.5 mm pin length is optimised for wave soldering, plug-in direction 180° to solder pins.

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

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1813690000	SU 10.16HP/06/180F 3.5AG BK BX	PCB plug-in connector, male header, Clip-on flange, Solder connection, 10.16 mm, No. of poles: 6, 180°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248297917	20 pc(s).	IEC: 1000 V / 74 A UL: 300 V / 54 A	Box

SU 10.16HP/90SF


Single-row, high-current male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity and additional fixing in flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 90° to solder pins.

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

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1851080000	SU 10.16HP/06/90SF 3.5AG BK BX	PCB plug-in connector, male header, Screw/clip-on flange, Solder connection, 10.16 mm, No. of poles: 6, 90°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248382040	20 pc(s).	IEC: 1000 V / 76 A UL: 300 V / 54 A	Box

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Mating connector (conditionally pluggable)
SU 10.16HP/270F


Single-row, high-performance male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity and additional fixing in flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 270° to solder pins.

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

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1813770000	SU 10.16HP/06/270F 3.5AG BK BX	PCB plug-in connector, male header, Clip-on flange, Solder connection, 10.16 mm, No. of poles: 6, 270°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248297993	20 pc(s).	IEC: 1000 V / 76 A UL: 300 V / 54 A	Box

SU 10.16HP/180SF


Single-row, high-current male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity, additional fixing and integral positioning aid. 3.5 mm pin length is optimised for wave soldering, plug-in direction 180° to solder pins.

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

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1850920000	SU 10.16HP/06/180SF 3.5AG BK BX	PCB plug-in connector, male header, Screw/clip-on flange, Solder connection, 10.16 mm, No. of poles: 6, 180°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248381845	20 pc(s).	IEC: 1000 V / 74 A UL: 300 V / 54 A	Box

OMNIMATE Power - series BU/SU 10.16 BUZ 10.16/06/180 AG BK BX

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Mating connector (fully pluggable)

SU 10.16HP/180G



Single-row, high-current male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity, additional fixing and integral positioning aid. 3.5 mm pin length is optimised for wave soldering, plug-in direction 180° to solder pins.

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

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1813450000	SU 10.16HP/06/180G 3.5AG BK BX	PCB plug-in connector, male header, closed side, Solder connection, 10.16 mm, No. of poles: 6, 180°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248297658	20 pc(s).	IEC: 1000 V / 74 A UL: 300 V / 54 A	Box

SU 10.16HP/270G



Single-row, high-performance male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity and additional fixing in flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 270° to solder pins.

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

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1813530000	SU 10.16HP/06/270G 3.5AG BK BX	PCB plug-in connector, male header, closed side, Solder connection, 10.16 mm, No. of poles: 6, 270°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248297740	20 pc(s).	IEC: 1000 V / 76 A UL: 300 V / 54 A	Box

**OMNIMATE Power - series BU/SU 10.16
BUZ 10.16/06/180 AG BK BX**

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Mating connector (fully pluggable)

SU 10.16HP/90G



Single-row, high-current male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity and additional fixing in flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 90° to solder pins.

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

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1813370000	SU 10.16HP/06/90G 3.5AG BK BX	PCB plug-in connector, male header, closed side, Solder connection, 10.16 mm, No. of poles: 6, 90°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248297566	20 pc(s).	IEC: 1000 V / 76 A UL: 300 V / 54 A	Box