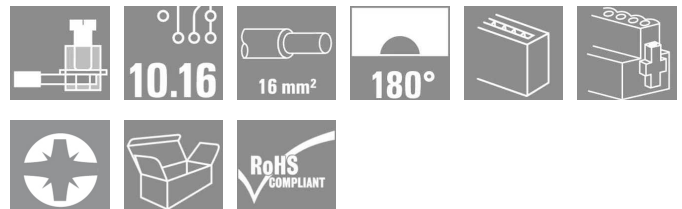


OMNIMATE Power - series BU/SU 10.16
BUZ 10.16/03/180F AG BK BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 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

Type	BUZ 10.16/03/180F AG BK BX
Order No.	181390000
Version	PCB plug-in connector, female plug, 10.16 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 16 mm ² , Box
GTIN (EAN)	4032248298129
Qty.	50 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 October 27, 2013 5:18:00 PM CET

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Technical data**Dimensions and weights**

Net weight	39.08 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	3
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	20.32 mm	L1 in inches	0.8 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		

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, min. H07V-R	6 mm ²	Stranded, min. H07V-R	6 mm ²
Stranded, max. H07V-R	16 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		

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

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Data sheet

**OMNIMATE Power - series BU/SU 10.16
BUZ 10.16/03/180F AG BK BX**

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Technical data

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 5.1	27-26-07-04	eClass 6.2	27-26-07-04
eClass 7.1	27-44-04-02		

Notes

- Notes
- 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.

Approvals

Approvals

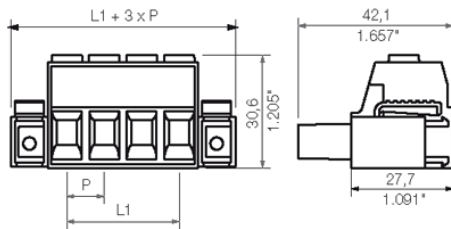


ROHS

Conform

Data sheet**OMNIMATE Power - series BU/SU 10.16
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Drawings

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Mating connector (conditionally pluggable)
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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SU 10.16HP/03/90SF 3.5AG BK BX	1851050000	PCB plug-in connector, male header, Screw/clip-on flange, Solder connection, 10.16 mm, No. of poles: 3, 90°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248382019	50 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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SU 10.16HP/03/270SF 3.5AG BK BX	1851130000	PCB plug-in connector, male header, Screw/clip-on flange, Solder connection, 10.16 mm, No. of poles: 3, 270°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248382095	50 pc(s).	IEC: 1000 V / 76 A UL: 300 V / 54 A	Box

**OMNIMATE Power - series BU/SU 10.16
BUZ 10.16/03/180F AG BK BX**

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Mating connector (conditionally pluggable)
SUZ 10.16HP 180G AG

OMNIMATE Power BU / SU 7.62HP - the 50 kVA power class
More current for higher performance.

Top of the class in today's connector systems – the OMNIMATE Power SU / BUZ 10.16HP. They feature 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).

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SUZ 10.16HP/03/180G AG BK BX	1947490000	PCB plug-in connector, male plug, 10.16 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 16 mm², Box	4032248623778	50 pc(s).	IEC: 1000 V / 78 A / 0.2 - 16 mm² UL: 600 V / 54 A / AWG 24 - AWG 6	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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SU 10.16HP/03/270G 3.5AG BK BX	1813500000	PCB plug-in connector, male header, closed side, Solder connection, 10.16 mm, No. of poles: 3, 270°, Solder pin length (l): 3.5 mm, silver- plated, Black, Box	4032248297719	50 pc(s).	IEC: 1000 V / 76 A UL: 300 V / 54 A	Box

**OMNIMATE Power - series BU/SU 10.16
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Mating connector (conditionally 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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SU	1813420000	PCB plug-in connector, male header, closed side, Solder connection, 10.16 mm, No. of poles: 3, 180°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248297610	50 pc(s)	IEC: 1000 V / 74 A UL: 300 V / 54 A	Box
10.16HP/03/180G						
3.5AG BK BX						

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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SU	1850890000	PCB plug-in connector, male header, Screw/clip-on flange, Solder connection, 10.16 mm, No. of poles: 3, 180°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248381784	50 pc(s)	IEC: 1000 V / 74 A UL: 300 V / 54 A	Box
10.16HP/03/180SF						
3.5AG BK BX						

**OMNIMATE Power - series BU/SU 10.16
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Mating connector (conditionally 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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SU 10.16HP/03/90G 3.5AG BK BX	1813340000	PCB plug-in connector, male header, closed side, Solder connection, 10.16 mm, No. of poles: 3, 90°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248297535	50 pc(s).	IEC: 1000 V / 76 A UL: 300 V / 54 A	Box

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Mating connector (fully 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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SU 10.16HP/03/270F 3.5AG BK BX	1813740000	PCB plug-in connector, male header, Clip-on flange, Solder connection, 10.16 mm, No. of poles: 3, 270°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248297962	50 pc(s).	IEC: 1000 V / 76 A UL: 300 V / 54 A	Box

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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SU 10.16HP/03/180F 3.5AG BK BX	1813660000	PCB plug-in connector, male header, Clip-on flange, Solder connection, 10.16 mm, No. of poles: 3, 180°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248297887	50 pc(s).	IEC: 1000 V / 74 A UL: 300 V / 54 A	Box

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Mating connector (fully 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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SU 10.16HP/03/90F 3.5AG BK BX	1813580000	PCB plug-in connector, male header, Clip-on flange, Solder connection, 10.16 mm, No. of poles: 3, 90°, Solder pin length (l): 3.5 mm, silver-plated, Black, Box	4032248297795	50 pc(s).	IEC: 1000 V / 76 A UL: 300 V / 54 A	Box

