

WFF 120/AH**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image** Similar to illustration

The comprehensive range of stud terminals ensures secure connections for all power transmission applications. Connections range from 10 mm² to 300 mm². The connectors are attached to the threaded pins using crimped cable lugs and each connection is secured by tightening the hexagon nut. Stud terminals with threaded pins from M5 to M16 can be used according to the wire cross-section.

General ordering data

Version	Bolt-type screw terminals, Feed-through terminal, Rated cross-section: 120 mm ² , Threaded stud connection
Order No.	1029500000
Type	WFF 120/AH
GTIN (EAN)	4008190086664
Qty.	4 ST

WFF 120/AH

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693
Certificate No. (cURusEX)	E184763

Dimensions and weights

Depth	88.5 mm	Depth (inches)	3.4842 inch
Depth including DIN rail	88.5 mm	Height	229.5 mm
Height (inches)	9.0354 inch	Width	42 mm
Width (inches)	1.6535 inch	Net weight	278.45 g

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-5 °C...40 °C
Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	120 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Material data

Material	Wemid	Colour	dark beige
UL 94 flammability rating	V-0		

Rating data IECEx/ATEX

Certificate No. (IECEX)	IECEXULD15.0004U	Max. voltage (IECEX)	1100 V
Current (IECEX)	269 A	Wire cross section max. (IECEX)	120 mm ²
Marking EN 60079-7	Ex eb II C Gb	Ex 2014/34/EU label	II 2 G D

System specifications

End cover plate required	Yes	Number of potentials	1
Number of levels	1	Number of clamping points per level	2
Levels cross-connected internally	No	PE connection	No
Rail	TS 35		

Additional technical data

Open sides	closed	Number of similar terminals	1
Explosion-tested version	Yes	Type of mounting	Snap-on

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Technical data

CSA rating data

Wire cross section max. (CSA)	250 kcmil	Voltage size C (CSA)	600 V
Current size C (CSA)	310 A	Certificate No. (CSA)	200039-1244019
Wire cross section min. (CSA)	10 AWG		

Conductors for clamping (rated connection)

Cable lug to DIN 46234	6...150 mm ²	Cable lug to DIN 46235	16...150 mm ²
Wire connection cross section AWG, max.	kcmil 250	Connection direction	on side
Tightening torque, max.	20 Nm	Tightening torque, min.	10 Nm
Type of connection	Threaded stud connection	Number of connections	2
Clamping range, max.	150 mm ²	Clamping range, min.	6 mm ²
Wire connection cross section AWG, min.	AWG 8	Wire connection cross section, finely stranded, max.	150 mm ²
Wire connection cross section, finely stranded, min.	6 mm ²	Connection cross-section, stranded, max.	150 mm ²
Connection cross-section, stranded, min.	6 mm ²	Stud size for spade connection	M 10
Wire connection cross-section, solid core, max.	150 mm ²	Wire connection cross-section, solid core, min.	6 mm ²
2 x cable lugs DIN 46 235	16...120 mm ²	2 x cable lugs DIN 46 234	6 to 120 mm ²

Dimensions

TS 15 offset	13.5 mm
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General

Wire connection cross section AWG, max.	kcmil 250	Wire connection cross section AWG, min.	AWG 8
Standards	IEC 60947-7-1	Rail	TS 35

Rating data

Rated cross-section	120 mm ²	Rated voltage	1000 V
Rated DC voltage	1500 V	Rated current	269 A
Current at maximum wires	309 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	0.12 mΩ	Rated impulse withstand voltage	6 kV
Power loss in accordance with IEC 60947-7-x	8.61 W	Pollution severity	3

UL rating data

Conductor size Factory wiring max. (UR)	250 kcmil	Current size C (UR)	310 A
Voltage size C (UR)	1000 V	Conductor size Factory wiring min. (UR)	10 AWG
Certificate No. (UR)	E60693	Conductor size Field wiring min. (UR)	10 AWG
Conductor size Field wiring max. (UR)	250 kcmil		

Classifications

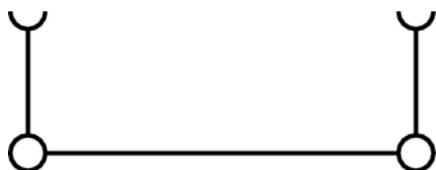
ETIM 6.0	EC000897	ETIM 7.0	EC000897
ETIM 8.0	EC000897	ETIM 9.0	EC000897
ETIM 10.0	EC000897	ECLASS 9.0	27-14-11-20
ECLASS 9.1	27-14-11-20	ECLASS 10.0	27-14-11-20
ECLASS 11.0	27-14-11-20	ECLASS 12.0	27-14-11-20
ECLASS 13.0	27-25-01-01	ECLASS 14.0	27-25-01-01

Technical data

ECLASS 15.0

27-25-01-01

Drawings



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Accessories

Standard



Screwable cross-connections are easy to mount and de mount. Thanks to the big contact surface, even high currents can be transmitted with maximum contact reliability.

General ordering data

Type	WQL 2 WFF 120	Version
Order No.	1065100000	Bolt-type screw terminals, Cross-connector, Number of poles: 2
GTIN (EAN)	4008190133771	
Qty.	5 ST	
Type	WQL 3 WFF 120	Version
Order No.	1065600000	Bolt-type screw terminals, Cross-connector, Number of poles: 3
GTIN (EAN)	4008190021641	
Qty.	5 ST	

WF/WFF-Series

WF/WFF
Series

The additional connection enables a separate voltage tap. This can be used, for example, for the emergency power supply before the main switch or simply as an additional connection within the application.

General ordering data

Type	WZAF 120	Version
Order No.	1066300000	Auxiliary connection (terminal)
GTIN (EAN)	4008190024642	
Qty.	10 ST	

W-Series

W
Series

Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

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Accessories

General ordering data

Type	WEW 35/1	Version
Order No.	1059000000	End bracket, dark beige, TS 35, V-2, Wemid, Width: 12 mm, 100 °C
GTIN (EAN)	4008190172282	
Qty.	50 ST	

Protective covers



Protective covers or protective caps are attached to the respective connection area of the terminal blocks. They provide protection against electric shock caused by accidental contact with live parts due to operation or faults.

General ordering data

Type	WAP WFF120	Version
Order No.	1073000000	Bolt-type screw terminals, Cover plate, dark beige, 2 mm
GTIN (EAN)	4008190475260	
Qty.	20 ST	

WF / WFF-Series

WF/WFF
Series

A partition plate is used for the optical separation of circuits or used for electrical isolation from neighbouring cross-connectors. In contrast to the end plate, the contour can be larger than the adjacent terminal blocks. However, it should not be smaller, as otherwise the required clearance and creepage distances within the application can no longer be maintained.

General ordering data

Type	WTW WFF120	Version
Order No.	1067300000	Bolt-type screw terminals, Partition plate, grey, 2 mm
GTIN (EAN)	4008190093037	
Qty.	10 ST	

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Accessories

Protective covers



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General ordering data

Type	WAH 120	Version
Order No.	1064660000	Bolt-type screw terminals, Hood, beige, 41 mm
GTIN (EAN)	4008190100797	
Qty.	20 ST	
Type	WAH 120/KURZ	Version
Order No.	1070460000	Bolt-type screw terminals, Hood, beige, 40.6 mm
GTIN (EAN)	4008190191047	
Qty.	10 ST	
Type	WAH 120 BL	Version
Order No.	1064680000	Bolt-type screw terminals, Hood, blue, 41 mm
GTIN (EAN)	4008190063931	
Qty.	20 ST	

Miscellaneous



We offer a broad portfolio of mounting support for easy handling and supplementation of our products. From various tools to insulating sleeves and various screws, our components are matched to each other down to the last detail and thus facilitate assembly in compliance with the respective standards and protective regulations.

General ordering data

Type	CPSB M10	Version
Order No.	0156400000	Bolt-type screw terminals, Copper-plated aluminium washer
GTIN (EAN)	4008190049935	
Qty.	50 ST	

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Accessories

Step-down bridges



Reducing cross-connectors enable simple and fast connection of terminal blocks with different rated cross-sections.

General ordering data

Type	SMSE WF10/2XM6	Version
Order No.	1868880000	Bolt-type screw terminals, Busbar, Number of poles:
GTIN (EAN)	4032248499755	
Qty.	10 ST	

Blank



WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.

- Can be fitted in strips or individually
- Markers in proven MultiCard format

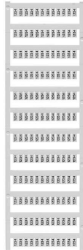
For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	WS 12/6.5 MC NE WS	Version
Order No.	1609920000	WS, Terminal marker, 12 x 6.5 mm, Pitch in mm (P): 6.50
GTIN (EAN)	4008190203511	Weidmueller, Allen-Bradley, white
Qty.	540 ST	

Accessories

Custom printing



WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.

- Can be fitted in strips or individually
- Markers in proven MultiCard format

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	WS 12/6.5 MC SDR	Version
Order No.	1609930000	WS, Terminal marker, 12 x 6.5 mm, Pitch in mm (P): 6.50
GTIN (EAN)	4008190456665	Weidmueller, Allen-Bradley, To customer specification
Qty.	108 ST	

Blank



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	DEK 5/5 MC NE WS	Version
Order No.	1609801044	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190397111	Weidmueller, white
Qty.	1000 ST	

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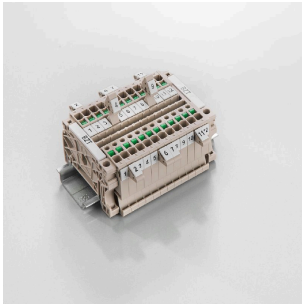
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Accessories

Marker holder

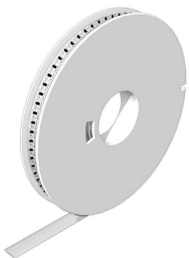


The marker holder offer the possibility of additional mounting of standard markers with a pitch of 5 or 5.1 mm. The angled holders can be optionally snapped together and could be mounted in all standard marking channels of the Klippon® Connect modular terminal blocks. Fitting marker types could be found under the respective accessories of the designation marking holder.

General ordering data

Type	BZT 1 WS 10/5	Version
Order No.	1805490000	Accessories, Marker holder
GTIN (EAN)	4032248270231	
Qty.	100 ST	
Type	BZT 1 ZA WS 10/5	Version
Order No.	1805520000	Accessories, Marker holder
GTIN (EAN)	4032248270248	
Qty.	100 ST	

WS 12/6.5



WS/ DEK

MultiMark terminal markers use an innovative composite material made from two components. The hard base contour of the marker snaps securely into the connector. The elastic surface finish makes the marker easy to mount. This specially punched material enables the strips to be stretched to accommodate the slight variations in spacing that tend to add up, especially with long terminal blocks. Another advantage: the excellent printability of the surface material guarantees durable and wear-resistant labelling. A print resolution of 300 dpi also produces a very legible script.

Your benefits with MultiMark

- Firm hold and durable printing
- Continuous strips save installation time
- Easy mounting thanks to an innovative composite material
- Large label field for optimal legibility
- High flexibility thanks to manufacturer independence

General ordering data

Type	WS 12/6.5 MM WS	Version
Order No.	2619930000	WS, Terminal marker, 12 x 6.5 mm, Weidmueller, white
GTIN (EAN)	4050118626155	
Qty.	600 ST	