

## Bolt-type screw terminals WFF 120

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



The comprehensive range of bolt-type screw terminals offers secure connections for all power transmission applications.

Connections from 10 mm<sup>2</sup> to 300 mm<sup>2</sup> are possible. The conductors are attached to the terminals using crimped cable lugs and each connection secured by tightening the hexagonal nut.

Bolt-type screw terminals with threads from M5 to M16 can be used depending on the conductor cross-section. A low voltage drop and the use of a self-extinguishing material with a V-0 (UL 94) flammability rating guarantee maximum safety.

All bolt-type screw terminals have been tested according to international railway standards (EN 50343, EN 50155, NF F61-017, NF16-101; Ria 20) and comply with the requirements of those standards.

### General ordering data

Type	WFF 120
Order No.	<a href="#">1028500000</a>
Version	Bolt-type screw terminals, Feed-through terminal, Rated cross-section: 120 mm <sup>2</sup> , Threaded stud connection, Direct mounting
GTIN (EAN)	4008190004866
Qty.	5 pc(s).

## Bolt-type screw terminals WFF 120

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

## Technische Daten

### Dimensions and weights

Length	132 mm	Width	42 mm
Height of lowest version	80.5 mm	Weight	281.6 g
Net weight	245.13 g		

### Temperatures

Operating temperature		Storage temperature	
Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	120 °C

### Rated data IECEx/ATEX

Certificate No. (ATEX)	KEMA98ATEX1684U	ATEX certificate	IECExKEM07.0053U
ATEX certificate	KEMA98ATEX1684U_e.pdf	Certificate No. (IECEX)	IECExKEM07.0053U
IEC Ex certificate	IECExKEM07.0053U_e.pdf	Max. voltage (ATEX)	1100 V
Current (ATEX)	234 A	Wire cross section max. (ATEX)	120 mm <sup>2</sup>
Max. voltage (IECEX)	1100 V	Current (IECEX)	234 A
Wire cross section max. (IECEX)	120 mm <sup>2</sup>	Voltage, cross-connection	CrossConnectionGuide.pdf
Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity	Marking EN 60079-7	
Marking ATEX Directive 94/9/EC	II 2 G D		Ex e II

### Additional technical data

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

### CSA ratings data

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

### Clampable wires (rated connection)

Type of connection	Threaded stud connection	Clamping range, rated connection, min.	6 mm <sup>2</sup>
Clamping range, rated connection, max.	150 mm <sup>2</sup>	Tightening torque, min.	10 Nm
Tightening torque, max.	20 Nm	Wire connection cross section, finely stranded, max.	150 mm <sup>2</sup>
Wire connection cross-section, finely stranded, min.	6 mm <sup>2</sup>		

### Rated data

Rated cross-section	120 mm <sup>2</sup>	Rated voltage	1,000 V
Rated impulse withstand voltage	8 kV	Rated current	269 A
Current at maximum wires	309 A	Pollution severity	3

## Bolt-type screw terminals WFF 120

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

## Technische Daten

### Stud connection

Tightening torque, min.	10 Nm	Tightening torque, max.	20 Nm
Stud size for spade connection	M 10	Cable lug to DIN 46234	6...150 mm <sup>2</sup>
Cable lug to DIN 46235	16...150 mm <sup>2</sup>	Clamping range, bolted connection , min.	6 mm <sup>2</sup>
Clamping range, bolted connection , max.	150 mm <sup>2</sup>		

### UL ratings data

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

### Material data

Material	Wemid	Colour	Dark Beige
UL 94 flammability rating	V-0		

### System specifications

Product family	Bolt-type screw terminals	Type of connection	Threaded stud connection
Number of levels	1	No. of clamping points per level	2
Levels cross-connected internally	No	Mounting rail	TS 35
End cover plate required	No		

### Classifications

ETIM 3.0	EC002020	UNSPSC	30-21-18-01
eClass 6.2	27-14-11-20	eClass 7.1	27-14-11-20

### Product information

Descriptive text ordering data	1000 VDC rated voltage tested. 1000 V UL and CSA for use groups B and C: can be used with isolating DIN rails and when using WTW-type partitions.
Descriptive text accessories	WAH 120 in blue, order No. 1064680000

### Approvals

Approvals



ROHS Conform