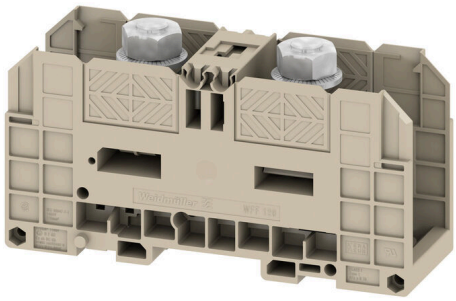
Data sheet

WFF 120

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image



To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

General ordering data

Version	Bolt-type screw terminals, Feed-through terminal, Rated cross-section: 120 mm², Threaded stud connection, Direct mounting
Order No.	1028500000
Type	WFF 120
GTIN (EAN)	4008190004866
Qty.	5 items

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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	72 mm	Depth (inches)	2.8346 inch
Depth including DIN rail	80.5 mm	Height	132 mm
Height (inches)	5.1968 inch	Width	42 mm
Width (inches)	1.6535 inch	Net weight	246.66 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

Basic 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 mm²
Marking EN 60079-7	Ex eb II C Gb	Ex 2014/34/EU label	II 2 G D

System specifications

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

Additional technical data

Open sides	closed	Number of similar terminals	1
Installation advice	Direct mounting	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 mm²	Cable lug to DIN 46235	16…150 mm²
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 mm²	Clamping range, min.	6 mm²
Wire connection cross section AWG, min.	AWG 8	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	6 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	6 mm²	Wire connection cross section, finely stranded, max.	150 mm²
Wire connection cross section, finely stranded, min.	6 mm²	Connection cross-section, stranded, max.	150 mm²
Connection cross-section, stranded, min.	6 mm²	Stud size for spade connection	M 10
Wire connection cross-section, solid core, max.	150 mm²	Wire connection cross-section, solid core, min.	6 mm²
Connection cross-section, finely stranded, min.	6 mm²	2 x cable lugs DIN 46 235	16…120 mm²
2 x cable lugs DIN 46 234	6 to 120 mm²		

General

Wire connection cross section AWG, max.	kcmil 250	Installation advice	Direct mounting
Wire connection cross section AWG, min.	AWG 8	Standards	IEC 60947-7-1
Mounting rail	TS 35		

Rating data

Rated cross-section	120 mm²	Rated voltage	1000 V
Rated DC voltage	1500 V	Nominal 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	8 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 8.0	EC000897	ETIM 9.0	EC000897
ETIM 10.0	EC000897	ECLASS 14.0	27-25-01-01
ECLASS 15.0	27-25-01-01		

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Drawings