Bolt-type screw terminals
WFF 120 BL

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The comprehensive range of bolt-type screw terminals offers secure connections for all power transmission applications.
Connections from 10 mm² to 300 mm² 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 BL
Order No.	1028580000
Version	Bolt-type screw terminals, Feed-through terminal, Rated cross-section: 120 mm², Threaded stud connection
GTIN (EAN)	4008190121808
Qty.	5 pc(s).

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Technische Daten

Dimensions and weights

Length	132 mm	Width	42 mm
Height of lowest version	80.5 mm	Weight	265.69 g
Net weight	243.12 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 mm²
Max. voltage (IECEX)	1100 V	Current (IECEX)	234 A
Wire cross section max. (IECEX)	120 mm²	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	Ex e II
Marking ATEX Directive 94/9/EC	II 2 G D		

Additional technical data

Explosion-tested version	Yes	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 mm²
Clamping range, rated connection, max.	150 mm²	Tightening torque, min.	10 Nm
Tightening torque, max.	20 Nm	Wire connection cross section, finely stranded, max.	150 mm²
Wire connection cross-section, finely stranded, min.	6 mm²		

Rated data

Rated cross-section	120 mm²	Rated voltage	1,000 V
Rated impulse withstand voltage	8 kV	Rated current	269 A
Current at maximum wires	309 A	Pollution severity	3

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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 mm²
Cable lug to DIN 46235	16...150 mm²	Clamping range, bolted connection , min.	6 mm²
Clamping range, bolted connection , max.	150 mm²		

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	Blue
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.
Descriptive text accessories	WAH 120 in blue, order No. 1064680000

Approvals

Approvals	CSAEX CURUSEX GOSTEX ME25
ROHS	Conform

Downloads

STEP	1028580000_17240_WFF_120_BL_STP.stp