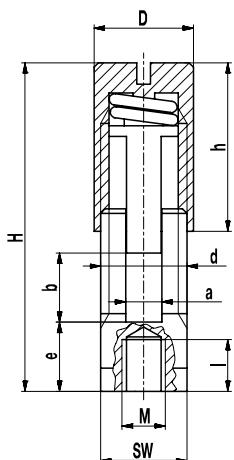


Ex-Protected Mantle Terminals DFB-AX

DFB-1-AX / DFB-2-AX / DFB-3-AX / DFB-5-AX

with bottom thread; Ex e II, Explosion-Proof



Dimensions (mm)

Type	mm ² (AWG)	a x b	D	d	H/h	I	e	M	SW
DFB-1-AX	2x2,5 (2x14)	3,1x3,1	8	M7x0,75	25,0/12,5	min. 4,3	7	M4	8 (4kt.)
DFB-2-AX	2x4 (2x12)	3,5x4,1	10	M8,5x1	30,6/16,5	min. 4,3	7	M4	10 (4kt.)
DFB-3-AX	2x6 (2x10)	4,2x5,1	11,5	M10x1	36,2/19,5	min. 5,2	8	M5	10 (4kt.)
DFB-5-AX	2x16 (2x6)	7,5x9,5	16	M14x1,25	52,0/30,5	min. 5,2	8	M6	14 (4kt.)

Our explosion and firedamp-proof mantle terminals, millions of which have already proved their worth in practical applications, are suitable for installation in apparatus, machinery and installation equipment of all types. They are mainly used in applications requiring a locked screw connection. WECO mantle terminals provide maximum operational reliability and meet the requirements of the corresponding VDE regulations.

The upper section of a DF terminal comprises a mantle nut, a flat clamping member which is mounted so that it can rotate and a spiral spring (in case of 4 mm² terminals a lock washer 3,5 DIN 7980 is used instead of a spring, these upper sections are called DR). The spring with extra-long spring travel is mounted captively on the inside of the upper section between the collar of the clamping member and the mantle nut. The lateturned journal above the plate-shaped collar is slightly longer than the block length of the spring so that it absorbs most of the pressure and the spring is thus not subject to fatigue. The fitted spiral spring produces a strong blocking effect (friction locking) and exerts a long-term, reliable pressure on the clamped conductors. The upper section encloses the lower section and thus prevents the lateral parts from bending outwards.

General Information

Additional Information

Notes on Installation:

The terminals can be used at ambient temperatures up to 40°C at the place of installation due to self-heating in apparatus under service conditions - primarily as earth terminals and for equipotential bonding - for the temperature classes T1 to T6. For use as live terminals in conjunction with insulating parts, a partial certificate for the entire electrical apparatus is necessary. For installation in a terminal housing - minimum degree of protection IP 54 - the requirements of EN 60079, must additionally be complied with. In addition, the terminals must be locked against rotation. This is easily possible using the square or hexagon foot.

Technical Data

Rated Current

max. load at 40°C/
104°F ambient
temperature

DFB-1: 30A
DFB-3: 39A
DFB-5: 53A
DFB-6: 95A

Material

Pressure bolt	Nickel plated brass
Spring washer	(DFB-2-AX): zinc plated steel
Nut	Nickel plated brass
Slotted Bolt	Nickel plated brass
Spiral spring	(DFB-1-AX, DFB-3-AX, DFB-5-AX): spring steel, blue annealed

Approvals

PTB 03 ATEX 1117 U

Approved according European Standard DIN EN 60079

Part Numbers

Type	Part Numbers	PU
DFB-1-AX	82.201.225	500
DFB-2-AX	82.201.319	250
DFB-3-AX	82.201.409	200
DFB-5-AX	82.201.504	100