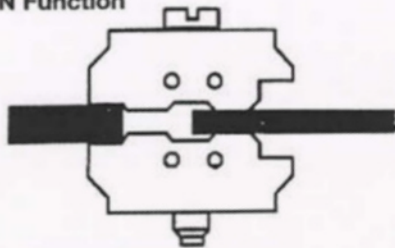


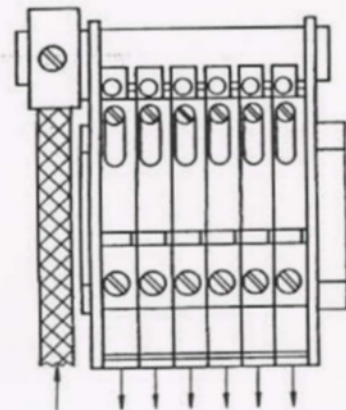
## N Function



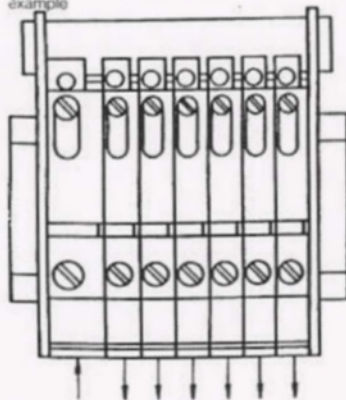
### Neutral connections

Construction regulations according to VDE 0100 (IEC 364) for power installations up to 1000V require that the installation undergo an insulation test. Special regulations stipulate an insulation test of all outgoing conductors (L1, L2, L3, N) without disconnection.

Weidmüller Neutral disconnect terminals are available for testing the insulation of outgoing Neutral conductors.






Supply via ZB 35 clamping yoke with 35 mm² conductor, for example



Supply via WTN 10 with up to 16 mm² conductor, for example.

### Loading of the N busbar

Profile	Material	Cat. No.	Load Current (A)
	E-Cu slot SnPb	57130	140
	CuZn bare	57120	100
	E-Cu slot SnPb	34890	140
	CuZn bare	25980	100
	E-Cu slot SnPb	35740	265 A

Length: m

### American Wire Gauge conductors

Due to the use of Weidmüller products in the USA, Canada and the Commonwealth, the provision of AWG conductor information is becoming increasingly necessary. AWG is the abbreviation for "American Wire Gauge". This designation is simply a number and does not provide information concerning the actual conductor cross-section. For this reason, we have listed the correlations between AWG and mm² in the following table. Weidmüller terminals carry designations such as 2.5, 4, 6 etc. which correspond to the maximum cross sectional area in square mm's of the current carrying capability of the terminal.

Table of Comparisons AWG/mm²

AWG	Approx. mm²
18	0.75
16	1.5
14	2.5
12	4.0
10	6.0
8	10.0
6	16.0
4	25.0
2	35.0
1/0 or 0	50.0
2/0 or 00	70.0
3/0 or 000	95.0
4/0 or 0000	—
250 kcmils	120.0
300 kcmils	150.0
400 kcmils	185.0
500 kcmils	240.0
600 kcmils	300.0
1000 kcmils	500.0

### Tightening torques

#### Excerpt from VDE 0611 Part 1 - Table 1

VDE test torques and recommended tightening torques for Weidmüller terminations are shown.

#### Slotted cap screw

Thread	Test torque	Tightening torque CuZn and CuSn screw	Stain, steel screw
[M]	[Nm]	[Nm]	[Nm]
M2.5 (M2.6)	0.4	0.6	0.8
M3	0.5	0.8	1.0
M3.5	0.8	1.2	—
M4	1.2	1.8	2.0
M5	2	3	4.5
M6	2.5	4	8
M8	3.5	5	—
M10	4	6	—

#### Cap screw (not slotted) and hex bolt (steel screws)

Thread	Test torque	Tightening torque
[M]	[Nm]	[Nm]
M2.5 (M2.6)	—	—
M3	—	—
M3.5	—	—
M4	—	—
M5	—	—
M6	—	—
M8	6	10
M10	10	15