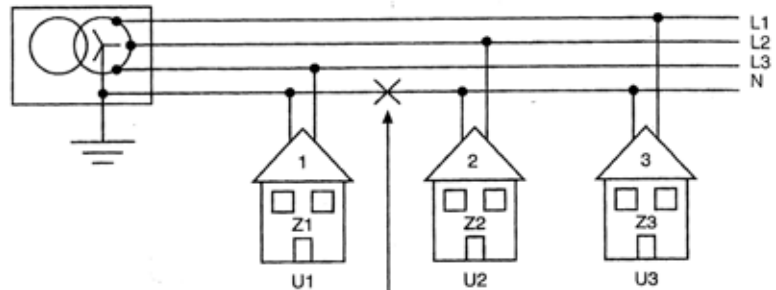
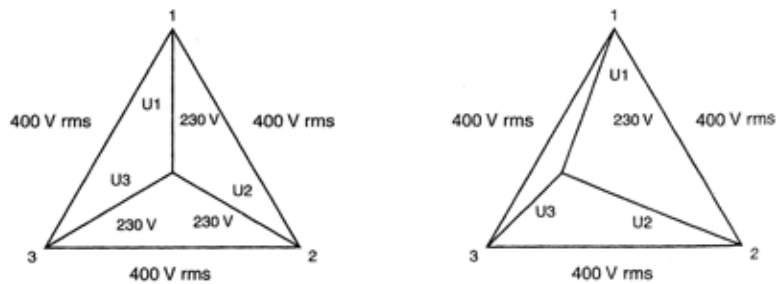


Residual current circuit breakers with integral overcurrent protection LIMAT-DN

Why do overvoltages in the net appear?



If the neutral line is broken and the loads Z2 and Z3 are not equal instead of correct voltage diagram (left) a disfiguration appears (right).



The solution is LIMAT with overvoltage protection.

Overvoltage protection:

- Tripping voltage: 270 ± 10 V
- Tripping time: $\leq 0,2$ s
- No tripping at $U = 300$ V and $t \leq 0,05$ s
- Tripping at 45 ± 5 V on neutral line
- Tripping, if line and neutral conductor are changed; optical indication
- Tripping, if neutral or earth conductor is broken; optical indication

Technical data

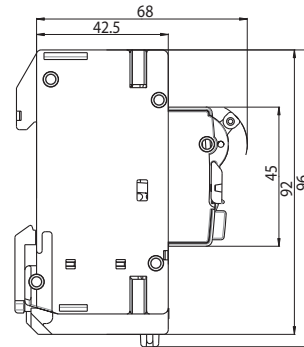
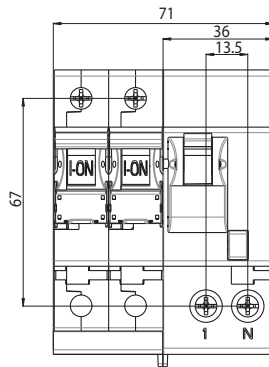
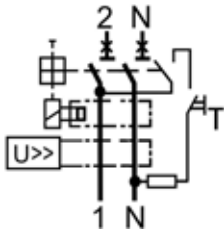
Rated voltage U_n	230/400 V AC
Rated current I_n	6 – 50 A
Rated frequency f_n	50 / 60 Hz
Tripping characteristic	B, C
Rated residual current $I_{\Delta n}$	100, 300 mA
Type of residual current tripping	AC, A
Rated short-circuit capacity I_{cn}	10 kA; $I_n \leq 40$ A 6 kA; $I_n \geq 50$ A
Energy limiting class	3
Terminals	1 – 25 mm ² , max. 3 Nm
Mounting position	any
Standards	IEC 61009, EN 61009

Signalisation

● PE, L - N	PE conductor is interrupted or misconnection of line (L) and neutral (N) conductor, RCBO switch off
○ >270 V, 45 ± 5 V (U_{PE-N})	overvoltage of 270 ± 10 V in anz phase or neutral conductor voltage 45 ± 5 V (U_{PE-N}), RCBO switch off
○ N	neutral conductor (N) is interrupted, RCBO switch off, after re/connection of neutral conductor signalling switch off

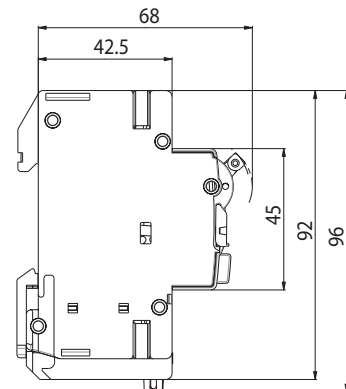
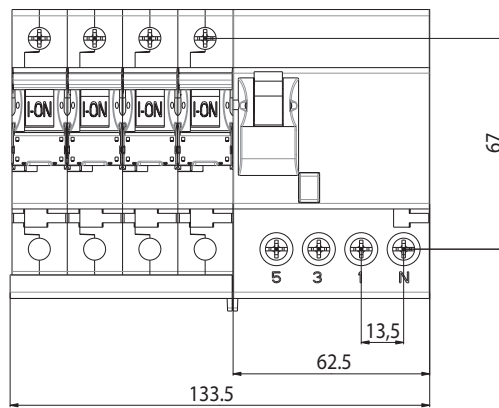
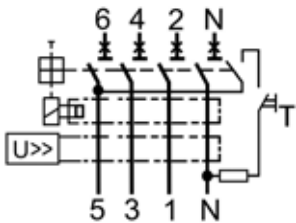
- Meaning of symbols
- light emission
 - no light emission

LIMAT2-DN



- Two protected poles (thermal and electromagnetic)
- Residual current protection
- Overvoltage protection:
 - Tripping voltage: 270 ± 10 V
 - Tripping time: $\leq 0,2$ s
 - No tripping at $U = 300$ V and $t \leq 0,05$ s
 - Tripping at 45 ± 5 V on neutral line
 - Tripping, if line and neutral conductor are changed; optical indication
 - Tripping, if neutral or earth conductor is broken; optical indication
- Width of product: 4 modules.

LIMAT4-DN



- Four protected poles (thermal and electromagnetic)
- Residual current protection
- Overvoltage protection:
 - Tripping voltage: 270 ± 10 V
 - Tripping time: $\leq 0,2$ s
 - No tripping at $U = 300$ V and $t \leq 0,05$ s
 - Tripping at 45 ± 5 V on neutral line
 - Tripping, if line, and neutral conductor are changed; optical indication
 - Tripping, if neutral or earth conductor is broken; optical indication
- Width of product: 7,5 modules.