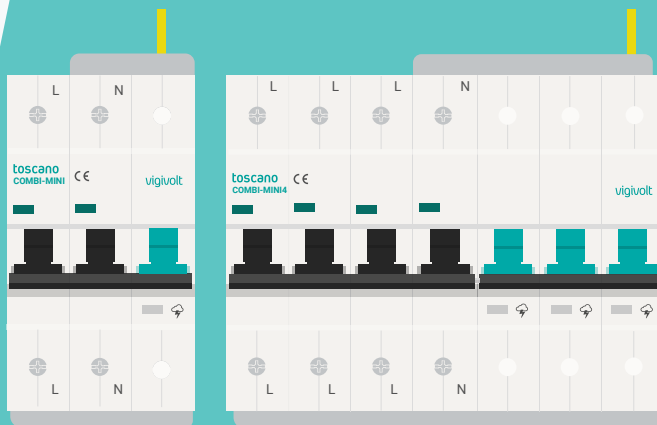


Protector against
transient and
permanent
overvoltages.



WARNING!

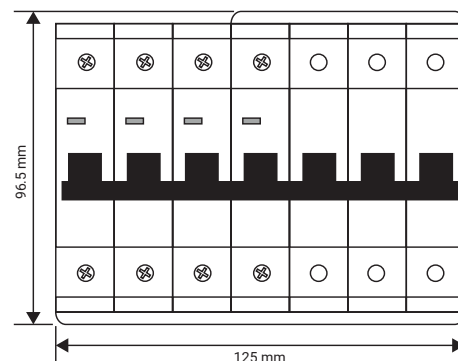
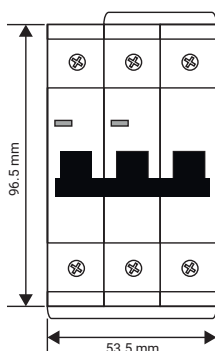
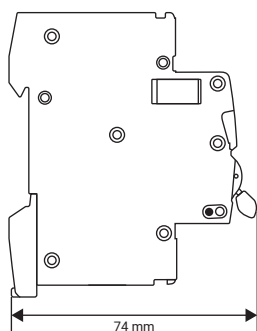
- The installation, maintenance and eventual replacement of this device must only be carried out by a qualified electrician.
- This device must not be repaired.
- All applicable local, regional and national regulations must be complied with during the installation, use, maintenance and replacement of this device.
- This device should not be installed if, when unpacking it, you observe that it is damaged.
- Toscano cannot be held responsible in the event of non-compliance with the instructions in this document and in the documents to which it refers.
- For the correct operation of the equipment, the phases must be connected to the "L" terminals, the neutral to the "N" terminal and the earth to the "PE" terminal.



HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

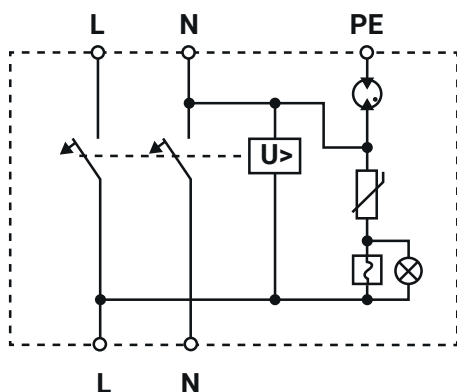
- Turn off all power supplying this device before working on it.
- Use a voltage tester on an appropriate scale to verify that all live conductors are not energized.
- Failure to comply with these instructions may result in serious injury or death.

Dimensions

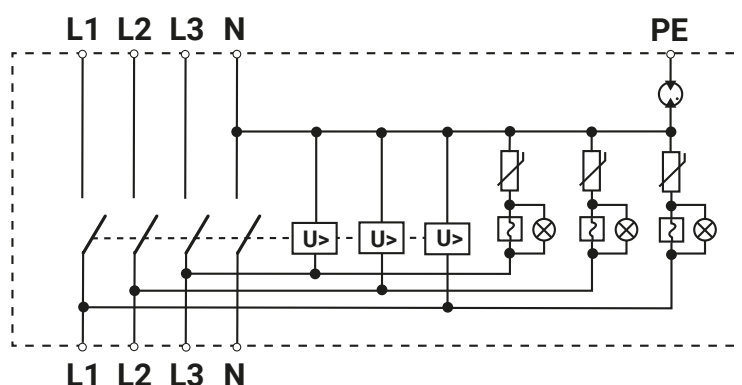


Electrical diagrams

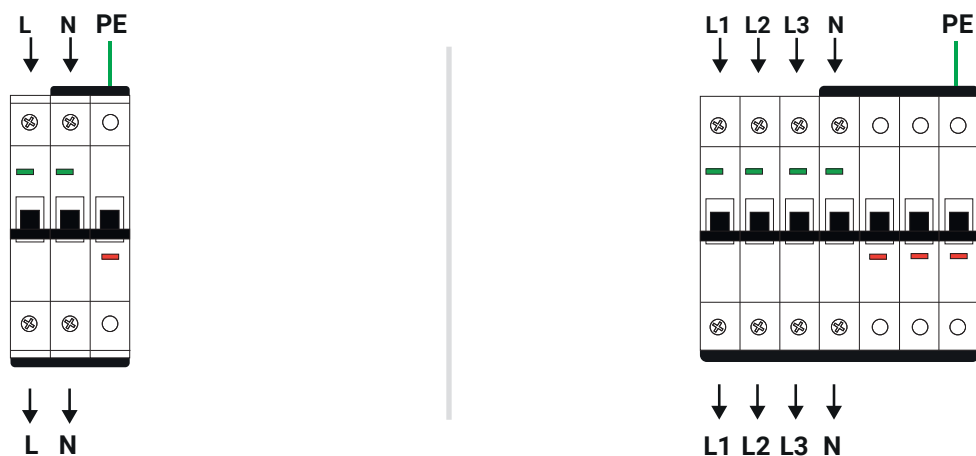
COMBI-MINI-2PT15



COMBI-MINI-4PT15

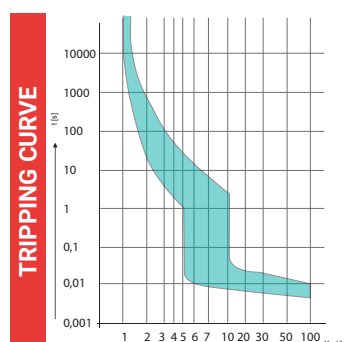


Wiring



Technical specifications

	COMBI-MINI-2PT15	COMBI-MINI-4PT15
GENERAL	Rated Operational Voltage	240 VAC
	Frequency	50-60 Hz
	Maximum terminal cross-section	25 mm ²
	Ground cable section (PE)	6 mm ²
	Tightening torque	2.5 Nm
	Environmental limits	-20 °C +70 °C / 80% R.H.
	Protection	IP20
	Mounting	Rail DIN 35
	No. of DIN modules	3
	Dimensions (width x height x depth)	53.5 x 96.5 x 70 mm
PERM.	Approx. average weight	365 g
	Approx. packed weight	390 g
	Disconnection voltage	according to EN IEC 63052
TRANSIENTS	Overvoltage response time	
	Protection level Up	≤1.5kV
	Maximum discharge current (8/20μs) I _{max} (L-N / N-PE)	12.5 kA
	Rated discharge current (8/20μs) I _n (L-N / N-PE)	6 kA
	Type	2
MCB	Rated current I _n	16 / 20 / 25 / 32 / 40 / 50 / 63 A (according to model)
	Tripping curve code	C
	Breaking Capacity I _{cn}	10 kA
COMPLIANCE	Directives	2014/35/UE (LVD) 2014/30/UE (EMC) 2011/65/UE (RoHS)
	Standards	EN IEC 63052 EN 61643-11 EN 60898-1





Do not install on lines without NEUTRAL (N) and without EARTH (PE).

○ Description

Protection device against permanent overvoltages caused by voltage increases in the mains supply, for single-phase or three-phase installations. It also protects against transient overvoltages caused by atmospheric discharges or mains switching operations.

The device consists of an MCB and one or more trip coils.

In addition, incorporates an indicator window that continuously shows the status of the equipment (for more information see Operation).

○ Operation

The device continuously measures the voltage in the installation and detects any increase in it. In the event of detecting an anomaly, it acts on the MCB (Main Circuit Breaker), disconnecting the voltage in the installation. The operating time will depend on the level of overvoltage detected (according to the specifications of IEC-63052 Standard).

If the device is correctly connected and operating properly, the indicator window will flash green.

When the mains voltage value approaches the tripping values, it will flash red until tripping occurs.

The device will become operational again once it is manually reset, provided that the voltage is within its nominal values.

In the event of a transient overvoltage, the device limits it by diverting it to PE thus preventing possible damage to devices connected to the mains.

If due to a transient overvoltage the protection becomes inoperative, the indicator window will turn red. In this case, the protection module will have become unusable and must be replaced with another one.

Scan for more
information:
(COMBI-MINI-2PT)



Scan for more
information:
(COMBI-MINI-4PT)

