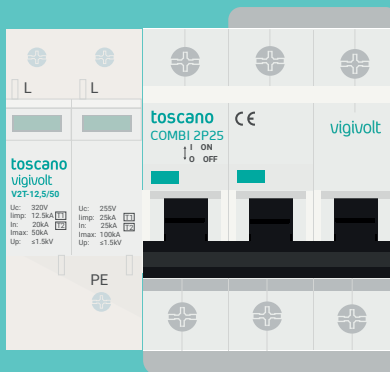


Protector against
permanent and transient
overvoltages.
For two-phase lines.
Type 1+2.



WARNING!

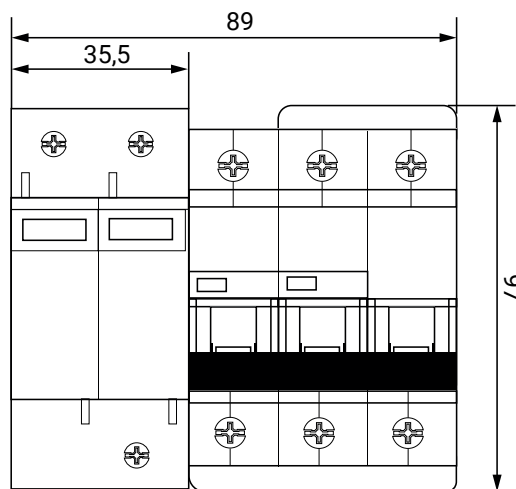
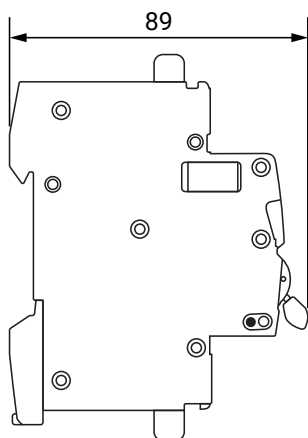
- The installation, maintenance and eventual replacement of this device must only be carried out by a qualified electrician.
- This device must not be repaired.
- All applicable local, regional and national regulations must be complied with during the installation, use, maintenance and replacement of 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 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 terminal "PE".



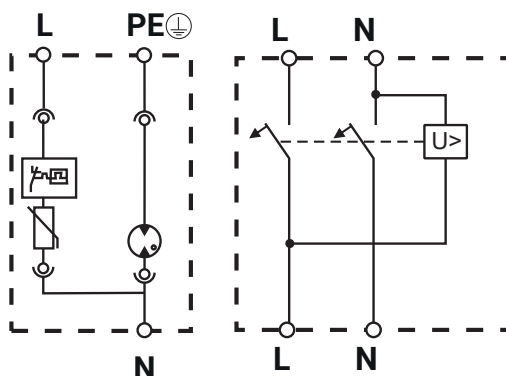
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

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

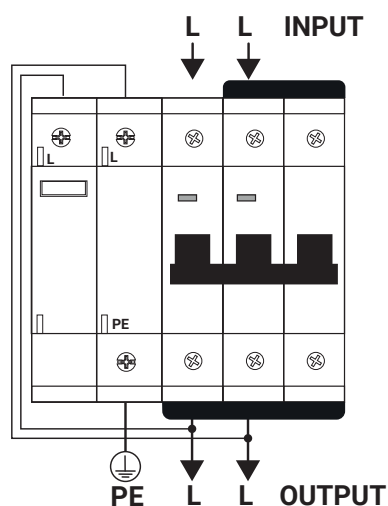
Dimensions



Electrical diagrams



Wiring



 Do not install on lines without an earth conductor (PE).

Technical specifications

		COMBI-PT12,5/50B
GENERAL	Rated voltage U_n (L-N / N-PE)	230 VAC
	Maximum voltage U_c (L-N / N-PE)	320 VAC
	Frequency	50-60 Hz
	Consumption	0,1 W
	Maximum terminal cross-section	35 mm ²
	Environmental limits	-20° +70° C / 80% H.R.
	Protection	IP20
	Mounting	Rail DIN 35
	N° of DIN modules	5
	Directives	2014/35/UE (LVD) 2014/30/UE (EMC) 2011/65/UE (RoHS)
Dimensions (width x height x depth)		89 x 97 x 89 mm
Average weight approx.		550 g
PERM.	Disconnection voltage	according to UNE-EN50550/63052 IEC-63052:2019
	Overvoltage response time	
IGA	Rated current (at 25 °C, ambient temperature)	16-20-25-32-40-50-63 A
	Curve	C
	Breaking Capacity I_{cn}	10 kA
TRANSIENT	Protection level U_p (L-N / N-PE)	<1,5 kV
	Impulse current (10/350 μ s) I_{imp} (L-N / N-PE)	12,5 kA / 12,5 kA
	Maximum discharge current (8/20 μ s) I_{max} (L-N / N-PE)	50 kA / 50 kA
	Rated discharge current (8/20 μ s) I_n (L-N / N-PE)	20 kA
	Type	1+2
	Overvoltage response time	≤ 25 ns
	Product standards	IEC/EN61643-11

● Operation

The device continuously measures the voltage in the installation. If an overvoltage is detected, it acts on the IGA/MCB (Main Circuit Breaker), disconnecting the voltage in the installation. The response time will depend on the level of overvoltage detected (according to the specifications of EN50550 standard).

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 absorbs it and diverts it to ground, thus preventing any damage to devices connected to the network.

If, due to a transient overvoltage, the protection becomes inoperative, a red warning window will be displayed. In this case, the protection module will be rendered unusable and must be replaced with another one.

Check the standards that our products comply with and download their declaration of conformity at:
toscano.es/standards

