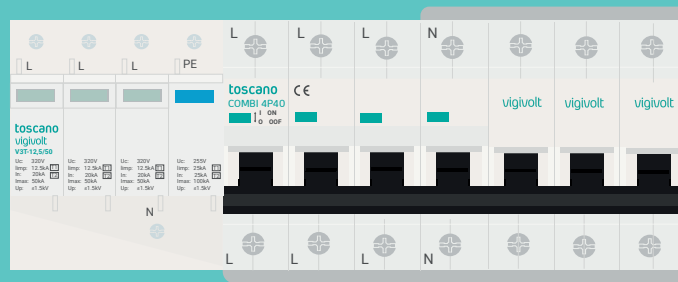
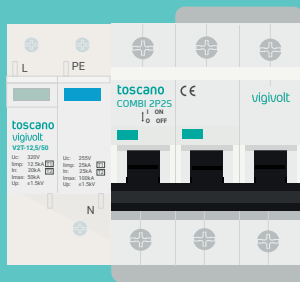


COMBI-PT12,5/50

Protector against permanent and transient overvoltages. Single-phase and three-phase. Type 1+2.



WARNING!

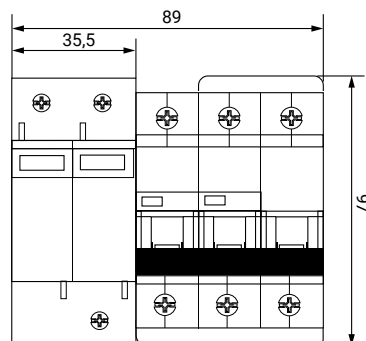
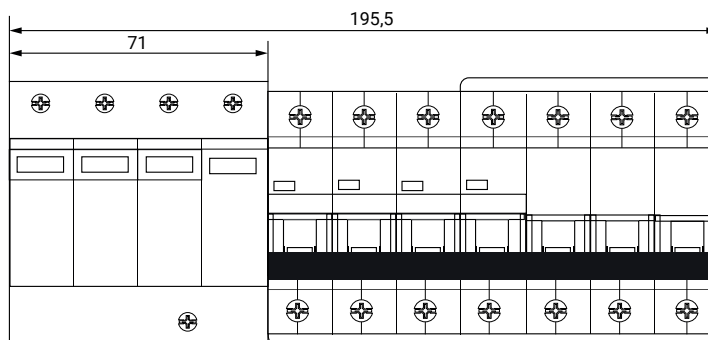
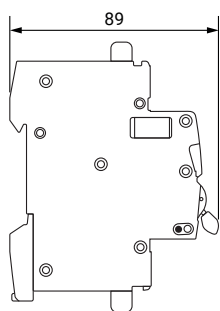
- The installation, maintenance and eventual replacement of this device must only be carried out by a qualified electrician.
- This device must not be repaired.
- All applicable local, regional and national regulations must be complied with during the installation, use, maintenance and replacement of 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 it refers.
- For the correct operation of the equipment, the phases must be connected to the "L" terminals and the neutral to the "N".



HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

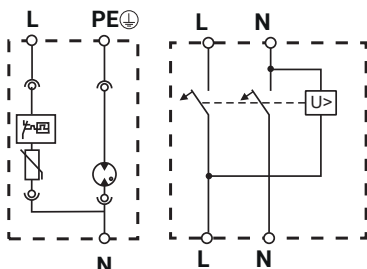
- Turn off all power supplying this device before working on it.
- Use a voltage tester on an appropriate scale to verify that all live conductors are not energized.
- Failure to comply with these instructions may result in serious injury or death.

Dimensions

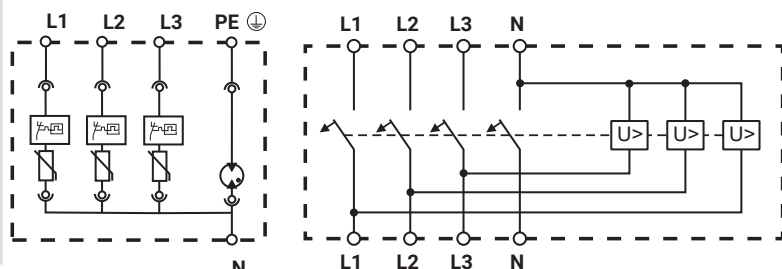


Electrical diagrams

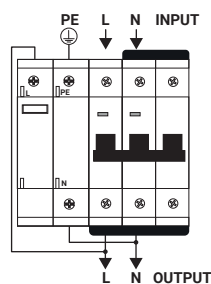
COMBI-2PT12,5/50



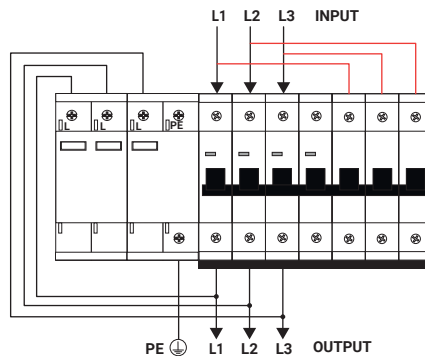
COMBI-4PT12,5/50



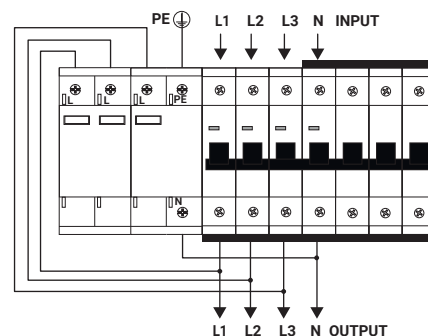
Wiring



Three-phase 230 V without neutral.



Three-phase 400 V with neutral.



Do not install on lines without neutral (N) and without ground (PE).



In the case of three-phase lines without neutral, the ground (PE) must be connected to the neutral (N) terminal, the top jumper must be removed, and wiring should be done according to the instructions. Do not install on lines without ground (PE).

Technical specifications

		COMBI-2PT12,5/50	COMBI-4PT12,5/50
GENERAL	Rated voltage U_n (L-N / L-L)	230 VAC	230 VAC / 400 VAC
	Maximum voltage U_c (L-N / N-PE)	255 VAC / 320 VAC	
	Frequency	50-60 Hz	
	Consumption	0.1 W	
	Maximum terminal cross-section	25 mm ²	
	Tightening torque	2.5 Nm	
	Environmental limits	-20° +70° C / 80% R. H.	
	Degree of protection	IP20	
	Mounting	Rail DIN 35	
	No. of DIN modules	5	11
	Dimensions (width x height x depth)	89 x 97 x 89 mm	195.5 x 97 x 89 mm
	Approx. average weight	540 g	1120 g
	Approx. packed weight	600 g	1250 g
PERM.	Disconnection voltage	according to EN IEC 63052	
	Overvoltage response time		
MCB	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 / 25 kA	
	Maximum discharge current (8/20 μ s) I_{max} (L-N / N-PE)	50 kA / 100 kA	
	Rated discharge current (8/20 μ s) I_n (L-N / N-PE)	20 kA / 25 kA	
	Type	1+2	
	Overvoltage response time	≤25 ns	
COMPLIANCE	Directives	2014/35/UE (LVD) 2014/30/UE (EMC) 2011/65/UE (RoHS)	
	Standards	EN 61643-11+A11 EN IEC 63052	

● Operation

The device continuously measures the voltage in the installation. If an overvoltage is detected, it acts on the upstream circuit breaker (MCB) disconnecting the voltage in the installation. The response time will depend on the level of overvoltage detected (according to the specifications of EN IEC 63052 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 limits it by diverting it to PE thus preventing any damage to devices connected to the network.

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

Scan for more
information:

