



WARNING!

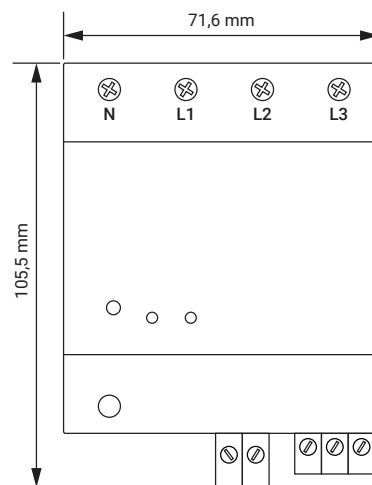
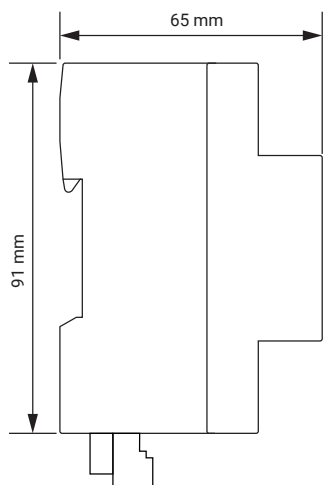
- The installation, maintenance and eventual replacement of this device must only be carried out by a qualified electrician.
- This device must not be repaired.
- All applicable local, regional and national regulations must be complied with during the installation, use, maintenance and replacement of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



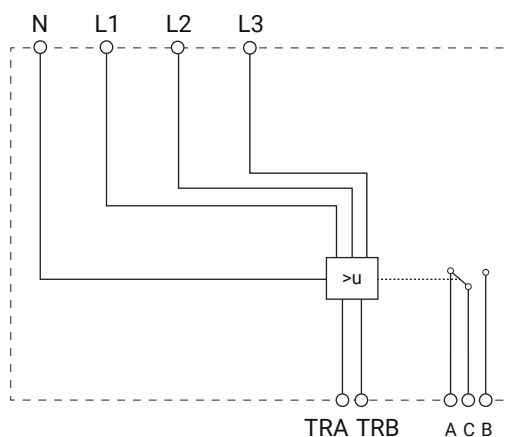
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Turn off all power supplying this device before working on it.
- Use a voltage tester on an appropriate 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

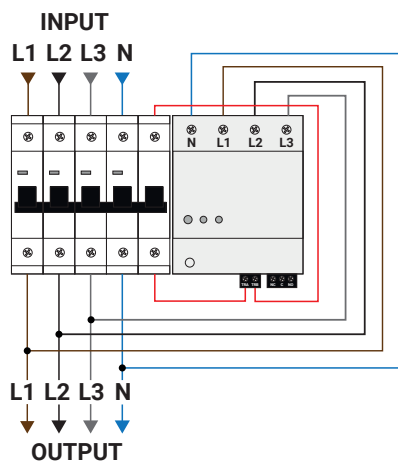


Electrical diagrams

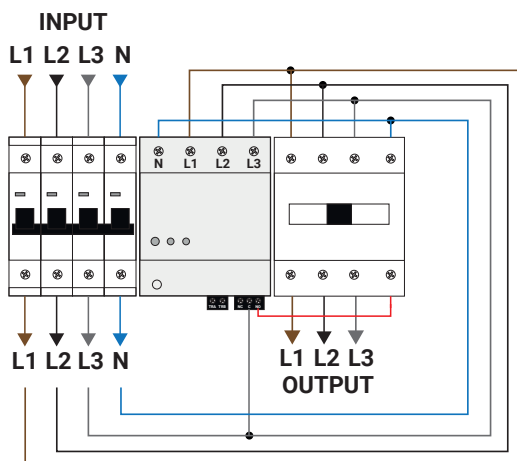


Wiring

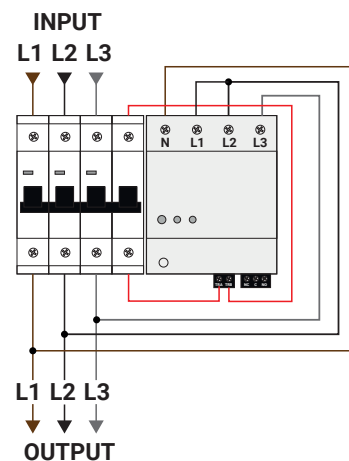
With shunt trip coil



With contactor (auto-reclosing)



240 V three-phase without neutral with shunt trip coil



Technical specifications

GENERALS	Rated voltage Un	240 VAC (N/L1, N/L2, N/L3)
	Frequency	50-60 Hz
	Power consumption	0,6 VA
	Maximum terminal cross-section	25 mm ²
	Alarm contact	6 A / 30 VDC, 6 A / 250 VAC
	Environmental limits	-20° +70° C / 80% H.R.
	Protection	IP20
	Mounting	Rail DIN 35
	Number of DIN modules	4
	Standards	2014/35/UE (LVD) 2014/30/UE (EMC) 2011/65/UE (RoHS)
	Dimensions (width x height x depth)	71.6 x 105.5 x 65 mm
	Average weight approx.	245 g
PERM	Disconnection voltage	According to standard UNE-EN 50550/63052
	Overvoltage response time	IEC 63052:2019

○ Description

Protection device against permanent overvoltages caused by increases in mains voltage, in three-phase installations.

The equipment has a changeover relay output contact for status indication. If an overvoltage occurs, C and A will be connected and will remain so until the overvoltage ceases, at which point C and B will be connected again.

L1, L2, L3: Input phase connections.

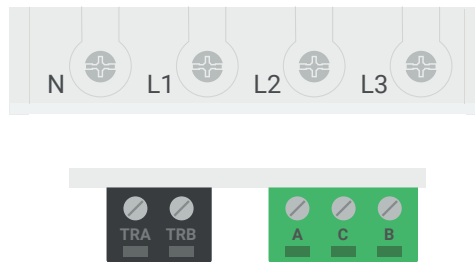
N: Input neutral connection.

TRA, TRB: Contacts for the trip coil.

A: Normally closed contact for status output.

B: Normally open contact for status output.

C: Common contact for status output.



○ Operation

The equipment continuously measures the voltage in the installation and detects any increase exceeding 10% of the nominal voltage. In the event of detecting such an anomaly, it acts on the trip coil of the MCB (Miniature Circuit Breaker).

The response time will depend on the level of overvoltage detected (according to the specifications of the UNE-EN50550 Standard).

If the equipment is configured as “standard” connection, the device will become operational again once the MCB is manually reset, provided that the voltage is within its nominal values.

In case of “auto-reclosing” connection, the equipment remains monitoring the input voltage and when the three phases are below 260 VAC with respect to neutral for at least 10 seconds, the equipment sends the reset signal to the trip coil so that it resets the MCB, restoring voltage in the installation.

In this case, the user will not observe any movement of the MCB handle. The disconnection of voltage is carried out internally.

If the user observes that the MCB handle has tripped, it must be reset manually, as the fault was due to an overload and not to an overvoltage.

Two indicators show the status of the equipment:

- **Green**  (blinking): Device monitoring.
- **Red**  (blinking): Indicates that the installation voltage has exceeded the trip level. It should only be visible if the system is configured as “auto-reclosing” connection, since if it is configured as “standard”, when the equipment sends the trip signal to the trip coil, it must remain without voltage, as well as the rest of the installation.

A test button located on the front of the device allows verification of its correct operation by simulating the overvoltage. To activate it, it must be pressed for at least five seconds.

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

