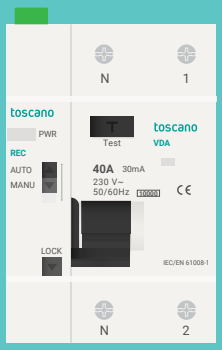
vigivolt

VDA-REC

Earth leakage protector.
TYPE A-SI Super immunized with automatic reset



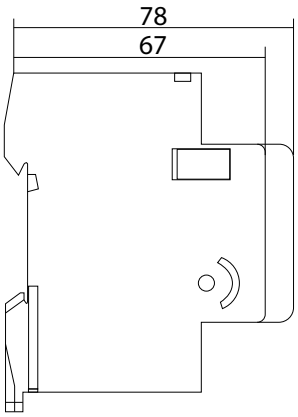
EN

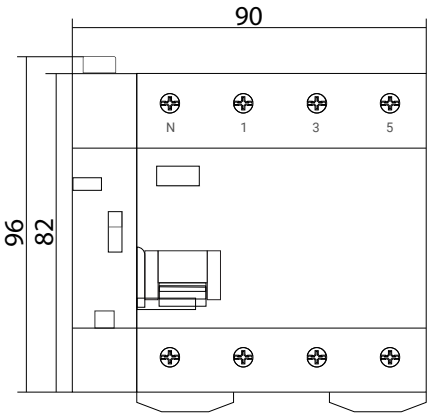
USER MANUAL

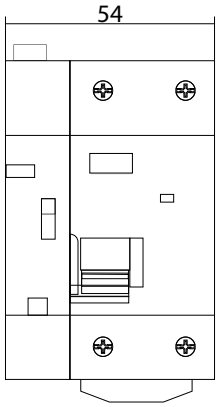
Cod. 50023457. Ed.3.26

WARNING!	HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH
- 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 is damaged. - Toscano cannot be held responsable in the event of non-compliance with the instructions in this document and in the documents to wich refers. - For the correct operation of the equipment, the phases must be connected to the "L" terminals and the neutral to the "N" terminal.	- Turn off all power supplying this device before working on it. - Use a voltage tester with a suitable rated voltage in order to check that all active conductors aren't energized. - Failure to follow these instructions will result in death or serious injury.

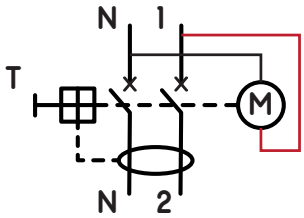
Dimensions



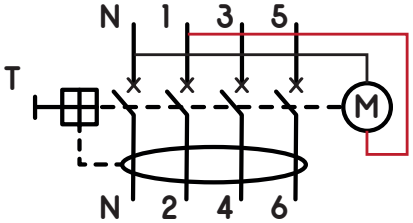




Electrical diagrams

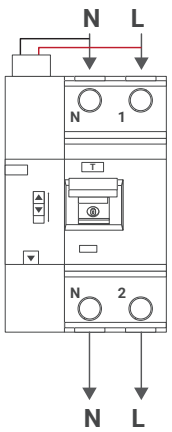


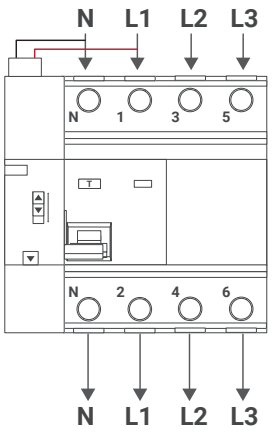
2P



4P

Wiring





Technical specifications

ELECTRICAL	Class	A-SI
	Rated current In	25 A, 40 A, 63 A
	Number of poles	2P, 4P
	Rated voltage Ue	240 VAC (L-N) / 415 VAC (L-L)
	Reclosing voltage	230 VAC
	Rated Sensitivity $I_{\Delta n}$	30 mA, 300 mA
	Insulation voltage Ui	500 V
	Breaking capacity Inc=Ic Δ	10.000 A
	Stand-by consumption	1 VA
	Tripping time	UNE-EN 61008-1
	Reset time	According to tripping diagram
	Rated frequency	50/60 Hz
	Rated impulse withstand voltage Uimp	4000 V
	Directives	2014-35-UE (LVD) 2014-30-UE (EMC) 2011-65-UE (RoHS)
	Standards	UNE-EN 63024 UNE-EN 61008-1
MECHANICAL	Trip indicator	Si
	Protection rating	IP20
	Ambient temperature	-5 ... 40ºC
	Storage temperature	-25 ... 70ºC
INSTALLATION	Permissible cable cross-section	25 mm^2
	Torque	2.5 N·m
	Mounting	On DIN rail UNE-EN 60715 (35mm) fixed by means of claws
	Connection	Top or bottom entry indistinctly

If any type of maintenance or intervention is required on the electrical installation of the dwelling, the VDA-REC must be in MANUAL mode to prevent undesired resets.

Description

Super immunized type A-SI residual current device, which detects earth faults caused by sinusoidal alternating currents or pulsating direct currents, whether they are applied instantaneously or increase gradually, with automatic reset device.

Automatic reset

of the electrical supply in case of a trip. This mechanism allows a maximum of three consecutive attempts before locking and includes an auxiliary contact to signal the end of the reset attempts.

Reset modes and times

1. First reset attempt:
After tripping, the residual current device waits 10 seconds before attempting reconnection. If the fault persists, the supply is interrupted again.

2. Second reset attempt:
If the first attempt fails, the system waits 60 seconds before reactivating. If the problem persists, it disconnects again.

3. Third reset attempt::
If the two previous attempts have not been successful, the residual current device waits 5 minutes before making a final reconnection attempt. If the fault persists, no further automatic reset attempts will be made.

4. Reset of attempts:
If after a reset attempt, the installation remains stable for 15 minutes, the device resets the reset attempt counter.

5. Lock mode and auxiliary contact:
If after the three attempts, the fault is not resolved and the required reset time has not elapsed, no further automatic reset attempts will be made, requiring manual intervention to restore the system. An auxiliary alarm contact (AUX) is activated to indicate the end of the reset attempts.

Configuration options

- It is possible to select between automatic or manual reset, allowing the user to define whether the device should attempt to reconnect autonomously or if they prefer to do it manually.
- In manual mode, the user has the option to block the reset using the lock tab, preventing the residual current device from reconnecting unintentionally.
- If the device's reconnection time needs to be reset, the mode must be changed to manual and then back to automatic.

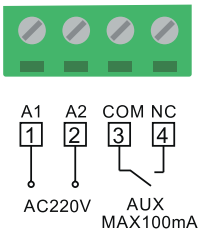
Control terminal

The VDA-REC device features a control terminal located on the right side of the unit. This terminal consists of a green plug-in 4-terminal connector with screw connection. The terminals are numbered from 1 to 4, and this numbering is silk-screened on the side of the device for easy identification.

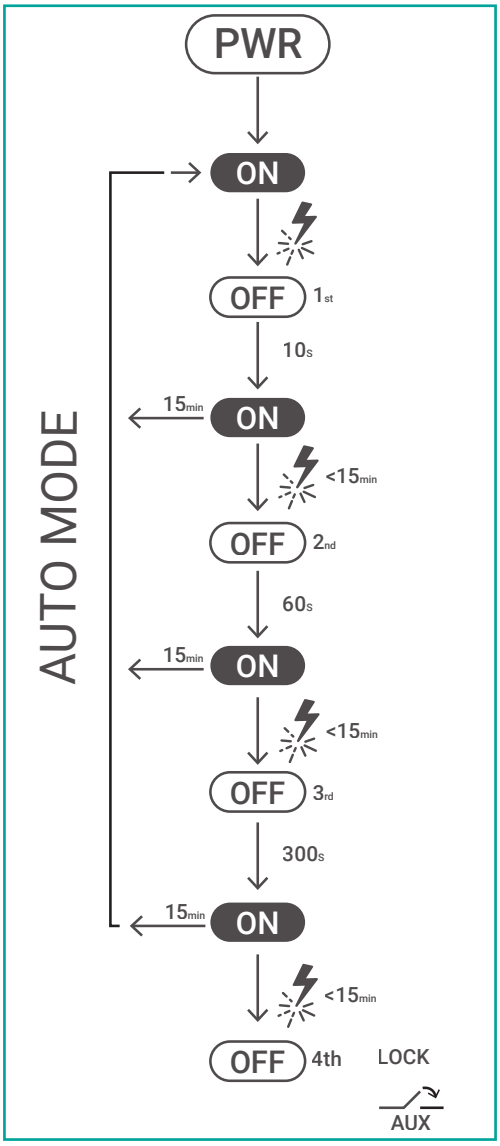
The functions of each terminal are described below:

Terminals 1 and 2 – 230V power supply:
These positions are exclusively intended forpowering the reclosing module. These terminals are factory pre-wired and must not be handled or modified by the user.

Terminals 3 and 4 – alarm output:
These positions correspond to an alarm output that is automatically activated when the device has attempted to reset three times unsuccessfully and enters lock mode. This condition indicates a possible persistent fault in the installation.
In this state, a manual reset of the device is required to restore normal operation.



Time diagram



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

Cod. 50023457. Ed. 3.26

toscano
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