

.....5@H9F B5H=CB 'F 9@5M Type H5&F '#H5' F



INSTALLATION AND OPERATION

H5&F '5`hYfbUjcb`fY`Um8ci V`Y

Description

Two alternating pumps relay controlled by pressure switches with low level input, and alarm output.

Timed restart for second pump after supply voltage failure.

Pressure switches and/or floats are isolated from power supply and with low level voltage (12V), giving full protection for users and maintenance people.

Operation

This relay has two output contacts for pump control (B1, B2) with additional low level alarm output.

When P1 is activated (high press value) will launch one pump. If after 10 minutes the pump is not able to booster the pressure, the second pump will start. This function avoids long running time of only one pump in case of pressure switch failure.

The alternation of pumps is made every P1 cycle start/stop.

In case of failure P1, P2, when activated (low pressure switch), will be launched two bombs.

The starting and stopping of pumps is always done with a small delay between them, thus preventing the start or stop both pumps simultaneously occurring peaks excessive consumption or water hammer in pipes.

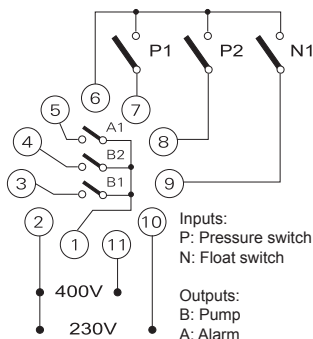
The unit has a red light to indicate the status of the control outputs of the pumps and also has an amber pilot lights which detects low level at the intake of the pumps.

When no pump running there is always one of the pumps pilot flashing, indicating wich pump will start first in the next cycle.

When level is comming up again, the amber led will be flashing during 5 sec before the pump starts again.



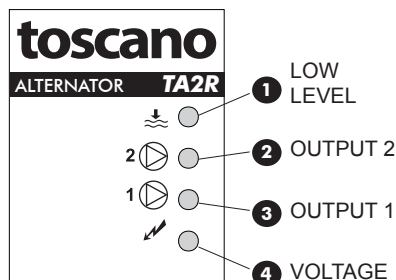
Connections



Warning

CHECK THE CONNECTIONS BEFORE STARTING THE EQUIPMENT. A WRONG WIRING CAN INVOLVE DANGER OF ELECTROCUTION.

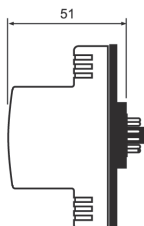
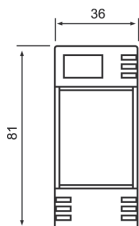
Frontal Description



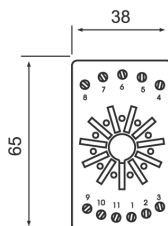
H5&F

Size

Module



Base (Rail DIN)



Technical features

LED status indication VOLTAGE
 OUTPUT 1 (Activated / Stand by)
 OUTPUT 2 (Activated / Stand by)
 ASPIRATION LEVEL

Supply Voltage 230/400 VAC - 50/ 60 Hz (ask for another voltage)

Power consumption 2 VA

Permissible voltage fluctuations +10% -10%

Temperature range -10° +60° C

Inputs voltage 12 Vdc

Terminal block maximum section 2,5 mm²

Load contacts 5 A - 250 Vac
 5 A - 30 Vdc

Weight. 150 g. (200 g. incl. base)

H5' F 'Di a d'U'hYfbU'hc'f'h'f]d`YI

Main features

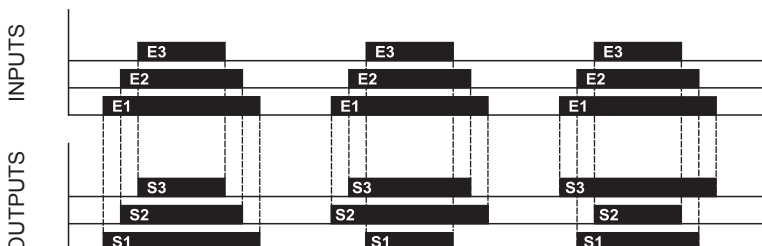
Triplex pump alternator.

Control with 3 outputs contacts. Cycle alternates each time contact E1 opens. Dual supply voltage 230 or 400 V.

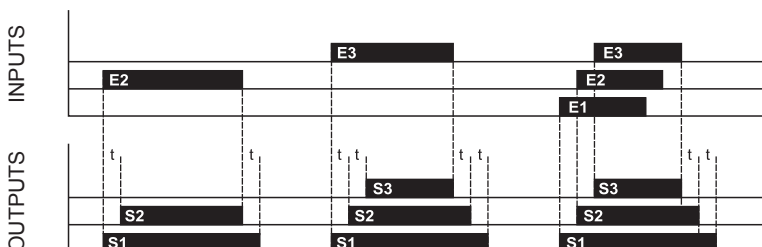


Operation

Standar operation



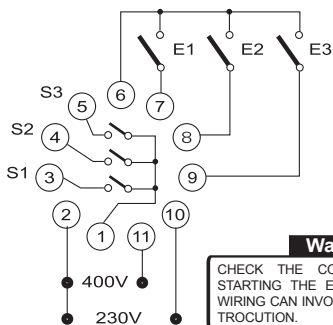
Operation in case of any input contact failure



t: 3s.

H5' F'

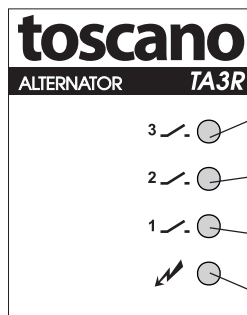
Connection



Warning

CHECK THE CONNECTIONS BEFORE STARTING THE EQUIPMENT. A WRONG WIRING CAN INVOLVE DANGER OF ELECTROCUTION.

Frontal Description



OUTPUT 3

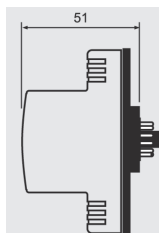
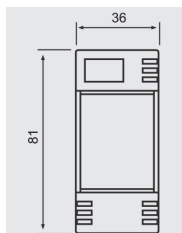
OUTPUT 2

OUTPUT 1

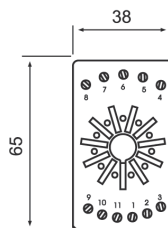
VOLTAGE
Led

Size

Module



Base (Rail DIN)



Technical features

LED status indication VOLTAGE

OUTPUT 1

OUTPUT 2

OUTPUT 3

Supply voltage 230/400V AC - 50/60 Hz

Current consumption 2 VA

Permissible voltage fluctuations +10% -10%

Temperature operating range -10° +60° C

Input (s) voltage "E..." 12 Vdc

Max. terminal block section 2.5 mm²

Outputs 5 A - 250 Vac

5 A - 30 Vdc

Approx. average weight 150 g. (200 g. incl. base)