

G.MILANI S.A.S.

DI TETTONI FABRIZIO & C.

VIA CAVAGLIETTO, 25

28010 - CAVAGLIO D'AGOGNA NO (ITALIA)

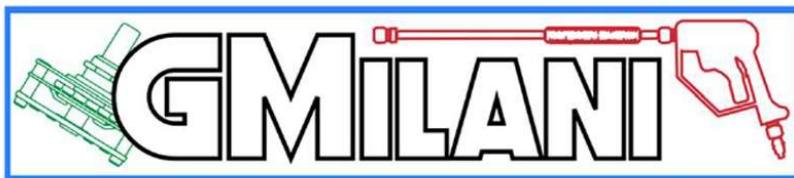
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EQUIPMENT FOR HOT WATER PRESSURE CLEANERS TLR 11 CNT



Features:

- Power supply range: **90 to 520Vac 50/60Hz**
- For three-phase motors up to 7.5kW – 10Hp
- For single-phase motors up to 5.5kW – 7.5Hp
- Diesel valve control output with clean NO contacts
- Managed by microprocessor
- General On-Off in low voltage
- 12Vdc output for indicator light
- Low voltage pressure switches
- Connections via 6.3mm Faston terminals
- Dimensions: (L x W x H) 100 × 100 × 48mm
- Weight: 530g

The product represents the evolution of the standard TLR11 model, now fully managed by a microprocessor, which has enabled the integration of new functions. The board is equipped with a connector that, through a dedicated interface card, allows connection to a PC. By using the TesterTlr software, it is possible to set custom timing, enable or disable functions and controls, test each input/output individually, and monitor the machine's status during operation.

Each unit is serialized (serial number visible through the software), ensuring traceability of each device.

The main additional function is the hour counter, which allows viewing the total working hours and the hours worked with hot water. Additionally, an hour counter with a machine maintenance alert function has been implemented: when the set threshold is reached, the need for regular maintenance is signaled via a dedicated alert (resettable only through the software). It is also possible to define the board's behavior upon reaching this threshold: continue normal operation or completely block the machine after surpassing an additional time threshold. All described functions are configurable and can be deactivated through the TesterTLR software.

The TLR11CNT has also been equipped with the new power supply system, which allows direct connection of the board to a voltage range between 90 and 520Vac 50/60Hz, without the need for manual settings. The board automatically detects the input voltage and adjusts accordingly.

The equipment integrates a relay with clean NO contacts, generally used for the 3-second delayed start of the diesel solenoid valve.

It is also possible to connect a low-voltage switch to completely deactivate the electronic part of the board.

The TLR11CNT has 4 inputs for pressure switches, which also ensure a safety function: in case of water shortage, the diesel solenoid valve is immediately deactivated, and the pump stops after the preset time for a total stop.

The following controls with related intervention signals have also been added: microleaks, total lock after inactivity time or continuous operation.

Operational features:

Pump motor output controlled internally by 3 relays.

Electronic board encapsulated in epoxy resin for protection against dust and humidity.

MADE IN ITALY

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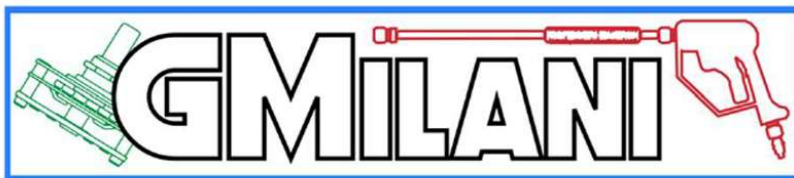
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ALARM INDICATION DESCRIPTION WITH ACTIVE WARNING LIGHT FUNCTION TLR 11 CNT

STEADY LIGHT – Total lock due to missed maintenance
(reset by authorized service network)

1 FLASH – Recommended routine maintenance alert
(reset by authorized service network)

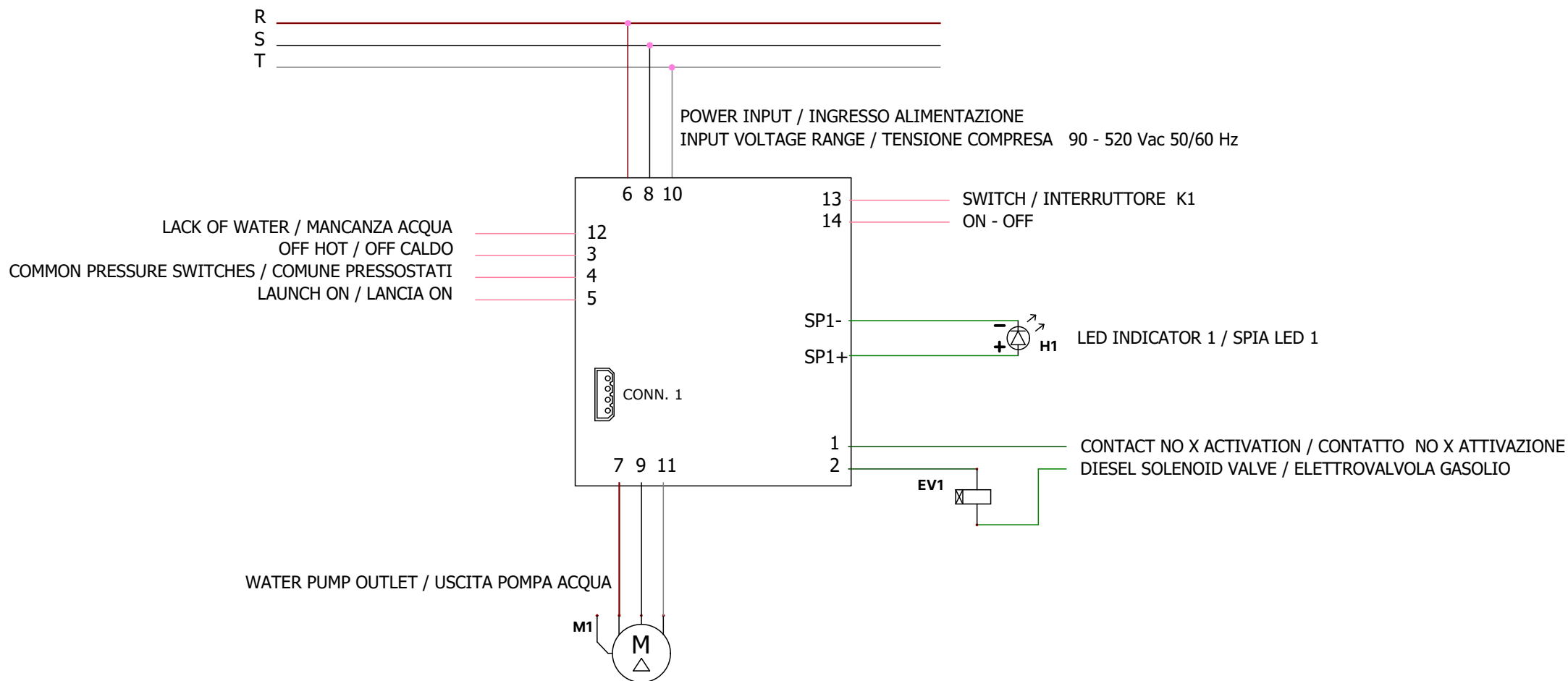
2 FLASHES – Lock: pump always on
(turn off power for a few seconds to restore operation)

3 FLASHES – Micro-leaks / false starts
(turn off power for a few seconds to restore operation)

4 FLASHES – Lock due to inactivity
(turn off power for a few seconds to restore operation)

5 FLASHES – Lock due to lack of water
(togliere tensione per qualche secondo per ripristinare il funzionamento)





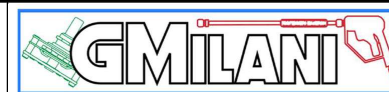
M1 - Water pump outlet / Uscita pompa acqua
 EV1 - Diesel solenoid valve / Elettrovalvola Gasolio
 K1 - Low Voltage Switch / Interruttore Bassa Tensione
 H1 - 12Vdc Warning Light / Spia Segnalazione
 CONN 1 - Connector interface with PC / Connettore interfaccia PC
 In single phase do not use 10-11 / In monofase non usare 10-11

TLR11CNT

REV. DATE

DESIGNED
G.Milani

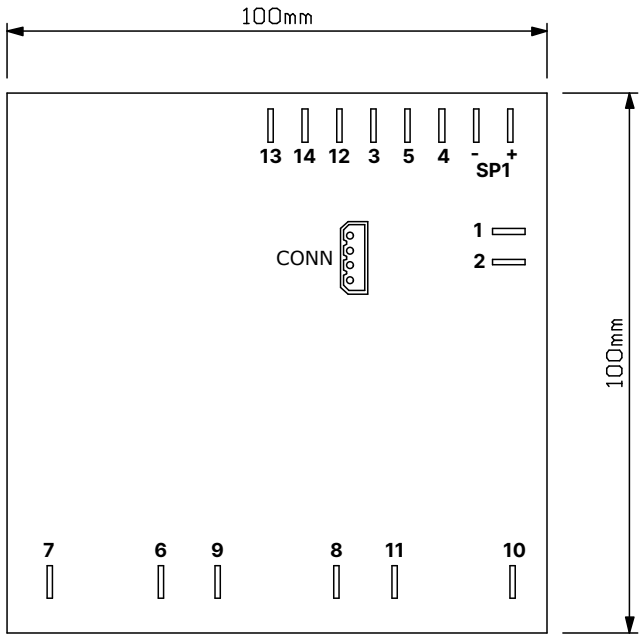
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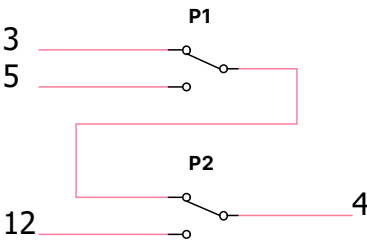
SCHEME

CONTRACT:

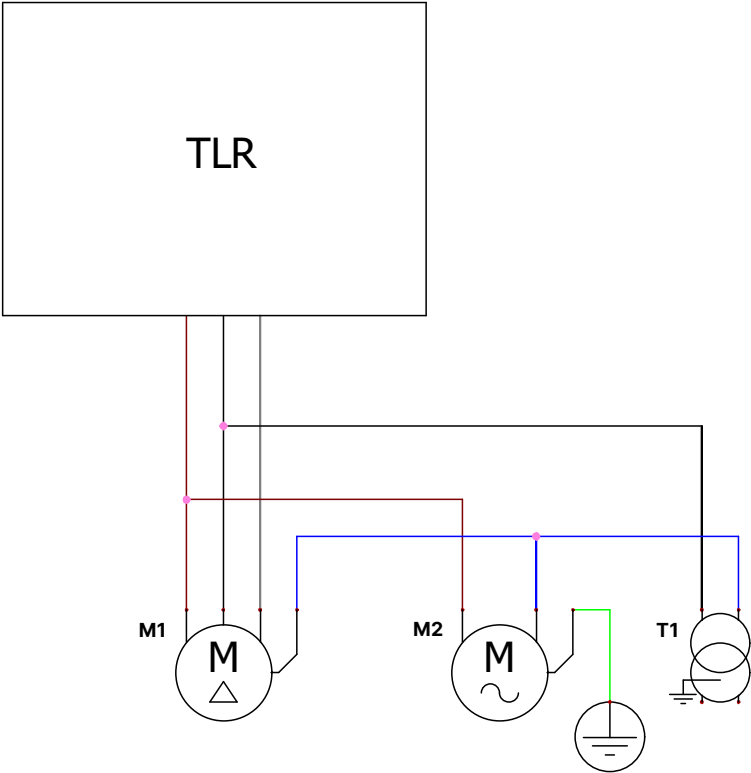
- T1 - Spark high voltage transformer / Trasformatore alta tensione scintilla
- M1 - Motor Pump / Motore Pompa
- M2 - Smoke fan motor / Motore ventola fumi
- P1 - Pressure switch generally mounted on the pump / Pressostato generalmente monatato su Pompa
- P2 - Pressure switch generally mounted on Bypass Valve / Pressostato generalmente montato su Valvola Bypass



Example of pressure switch connection
Esempio collegamento pressostati



Example of Fan Motor and Spark Transformer connection
Esempio collegamento Motore Ventola e Trasformatore Scintilla



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SCHEME

CONTRACT: