

G.MILANI S.A.S.

DI TETTONI FABRIZIO & C.

VIA CAVAGLIETTO, 25

28010 - CAVAGLIO D'AGOGNA NO (ITALIA)

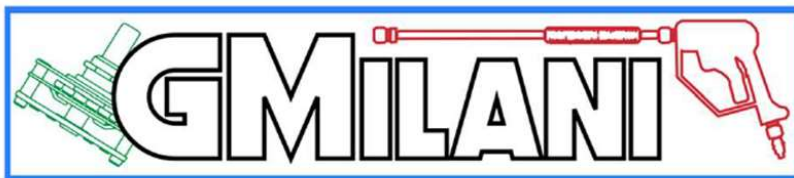
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EQUIPMENT FOR HOT WATER PRESSURE CLEANERS TLR 11 CNT

Features:

Power supply:

between 90 Vac and 520 Vac – 50/60 Hz (automatic voltage detection)

Supported motor loads:

400 V up to 7.5 kW – 10 HP

230 V up to 5.5 kW – 7.5 HP

Management:

microprocessor-controlled

Diesel solenoid valve control:

10 A, NO clean contacts with 3-second delayed activation

Signal output:

12 Vdc max 100 mA for indicator LED

Control inputs:

low voltage pressure switches

Low voltage input:

for general On-Off control

Electrical connections:

Faston 6.3 mm

Mechanical characteristics:

Dimensions (L × D × H): 100 × 100 × 48 mm, Weight: 530 g

Pump motor output:

internally controlled by 3 relays rated 40 A each, with a varistor on each relay for suppression of voltage spikes and contact arcing

Protection:

Electronic board encapsulated in epoxy resin against dust and humidity



Description:

The TLR 11 CNT represents the evolution of the standard TLR11 model, now fully controlled by a microprocessor, which has enabled the integration of new monitoring and control functions.

The board is equipped with a connector which, through a dedicated interface, allows connection to a PC. Using the TesterTLR software it is possible to:

- set customized timings
- enable or disable functions and controls
- individually test each input and output
- monitor machine status during operation

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

Among the main additional functions is an hour meter that allows viewing:

- total operating hours
- hot water operating hours

An hour meter with maintenance warning function is also integrated: when the set threshold is reached, the need for routine maintenance is signaled via a dedicated output.

Resetting can only be performed via software. It is possible to define the board behavior when the threshold is reached:

- continue normal operation
- completely block the machine after a second configured threshold

All functions can be configured and disabled via the TesterTLR software.

MADE IN ITALY

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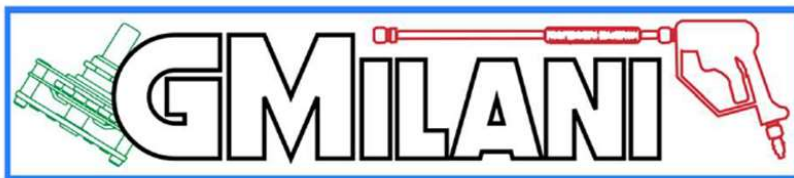
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The TLR 11 CNT integrates the new universal power supply system, allowing direct connection to voltages between 90 and 520 Vac 50/60 Hz, without manual settings. The board automatically detects the input voltage and adapts to operation.

The unit is equipped with a relay featuring NO clean contacts, generally used for the delayed activation (3 seconds) of the diesel solenoid valve.

A low voltage switch can be connected to completely shut down the electronic section of the board.

The board includes 4 pressure switch inputs which also provide a safety function for water shortage: in this condition, the diesel solenoid valve is immediately deactivated and the pump stops according to the Total Stop timing.

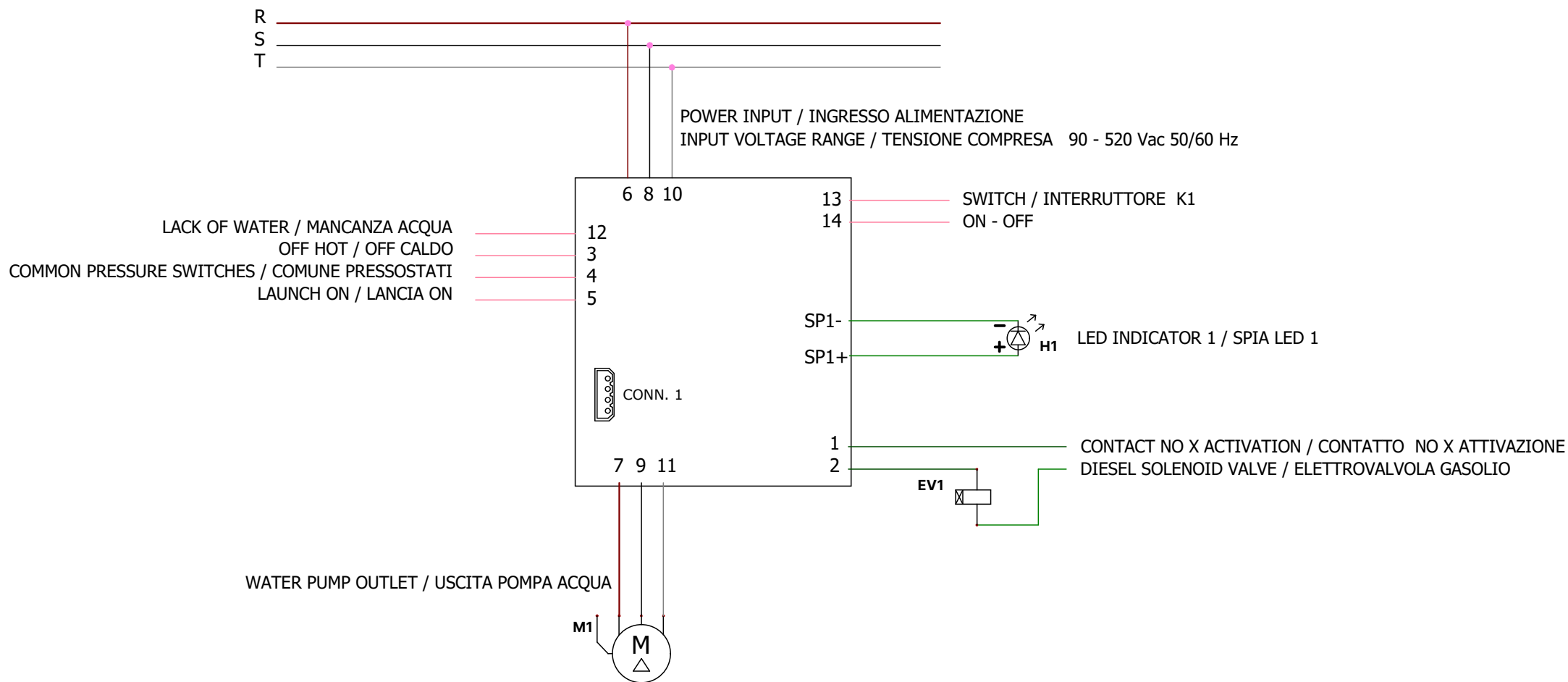
The following monitoring functions with corresponding alarm indication are also integrated:

- micro-leakages
- shutdown after idle time
- shutdown due to continuous operation

ALARM INDICATIONS

- | | |
|--------------------|---|
| STEADY ON - | Total shutdown due to missed maintenance
(reset by the service network) |
| 1 FLASH - | Recommended routine maintenance warning
(reset by the service network) |
| 2 FLASHES - | Pump permanently active shutdown
(remove power for a few seconds to restore operation) |
| 3 FLASHES - | Micro-leakages / false starts
(remove power for a few seconds to restore operation) |
| 4 FLASHES - | Shutdown due to inactivity
(remove power for a few seconds to restore operation) |
| 5 FLASHES - | Water shortage shutdown
(remove power for a few seconds to restore operation) |

MADE IN ITALY



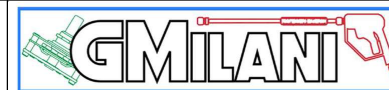
M1 - Water pump outlet / Uscita pompa acqua
 EV1 - Diesel solenoid valve / Elettrovalvola Gasolio
 K1 - Low Voltage Switch / Interruttore Bassa Tensione
 H1 - 12Vdc Warning Light / Spia Segnalazione
 CONN 1 - Connector interface with PC / Connettore interfaccia PC
 In single phase do not use 10-11 /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

TLR11CNT

REV. DATE

DESIGNED
G. Milani

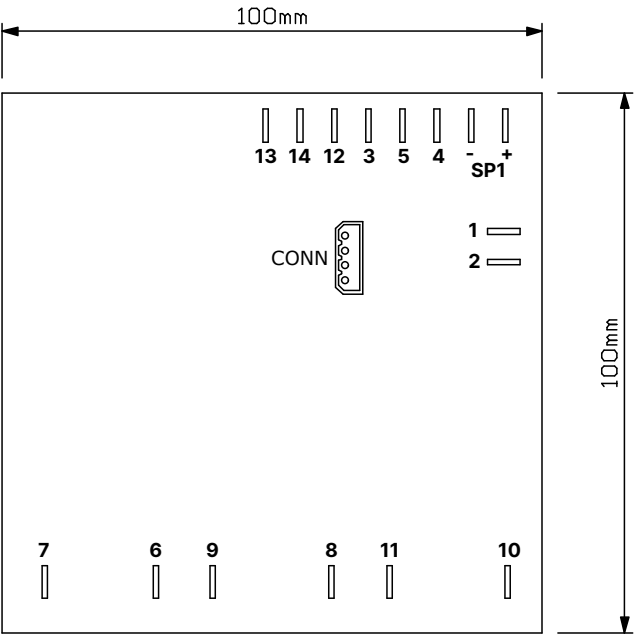
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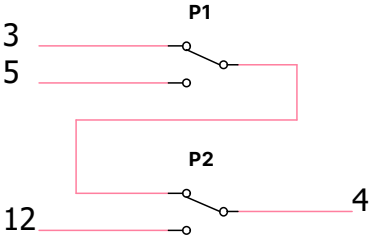
SCHEME

CONTRACT:

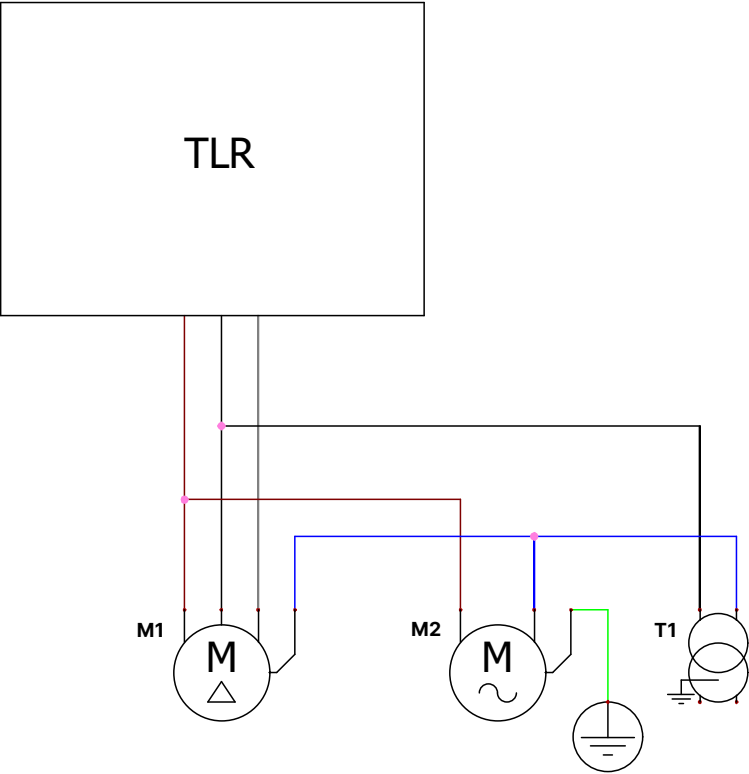
- T1 - Spark high voltage transformer / Trasformatore alta tensione scintilla
M1 - Motor Pump / Motore Pompa
M2 - Smoke fan motor / Motore ventola fumi
P1 - Pressure switch generally mounted on the pump / Pressostato generalmente monatato su Pompa
P2 - Pressure switch generally mounted on Bypass Valve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