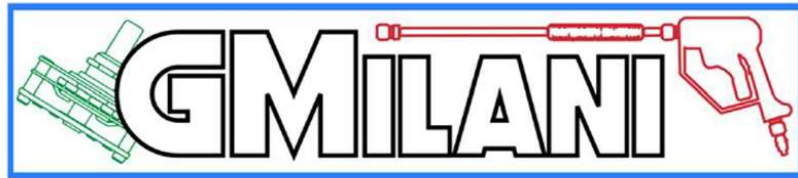
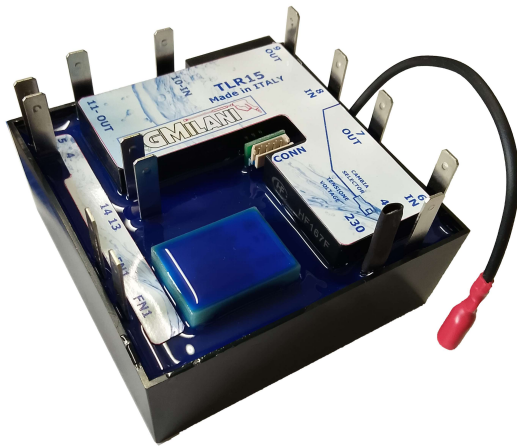


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EQUIPMENT FOR COLD WATER PRESSURE WASHERS



TLR 15

Specifications:

- Power supply: 230/400 Vac 50/60Hz
- For three-phase motors up to 15kW – 20Hp
- For single-phase motors up to 8kW – 10.8Hp
- Controlled by microprocessor
- 24Vac 100mA output with configurable function
- General On-Off with low voltage input
- Low voltage pressure switches
- Connections via 6.3mm faston terminals
- Dimensions (W x D x H): 100 x 100 x 48mm
- Weight: 900g

Description of the TLR15 Electronic Control Board for Pressure Washers

The new TLR15 has been specifically designed for the management and control of cold water pressure washers, extending the range of supported power levels. It functions as a simple timer for managing the pump motor, with a standard delay time set to 15 seconds.

The TLR15 is fully controlled by a microprocessor and offers the advantage of being configurable directly by the operator through the TesterTLR software, available for Windows PCs. Each unit is serialized (serial number visible via software), ensuring traceability of each machine. The operator can set timing parameters, enable or disable specific functions, and monitor both total and partial working hour counters.

The board features a 24Vac output, which can be configured via software for two different functions:

External hour counter: activated in parallel with the pump, typically used to control an external hour counter (not supplied).

Warning indicator: provides specific alerts based on the number and sequence of flashes.

The TLR15 also includes an internal hour counter, viewable via software, which allows advanced machine maintenance management. One of its main new features is the partial hour counter for maintenance alerts. When the preset time threshold is reached, a maintenance reminder is triggered (resettable exclusively through the software). It is also possible to define the behavior of the board when the threshold is reached: either continue normal operation or completely stop the machine after an additional time limit.

All these functions are configurable and can be disabled using the TesterTLR software.

The TLR15 is equipped with a low-voltage input, allowing the connection of one or more switches in series to shut down the equipment completely.

Main Features:

Pump motor output controlled internally by 3 separate relays.

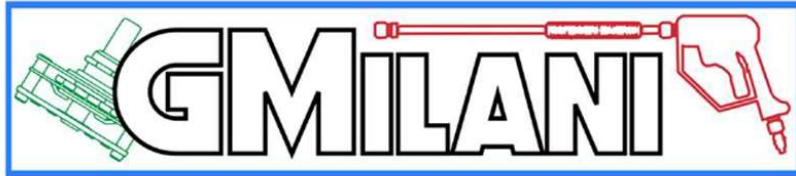
The electronic board is potted in epoxy resin to ensure protection against dust and humidity.



MADE IN ITALY

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ALARM INDICATION DESCRIPTION WITH ACTIVE WARNING LIGHT FUNCTION TLR 15

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

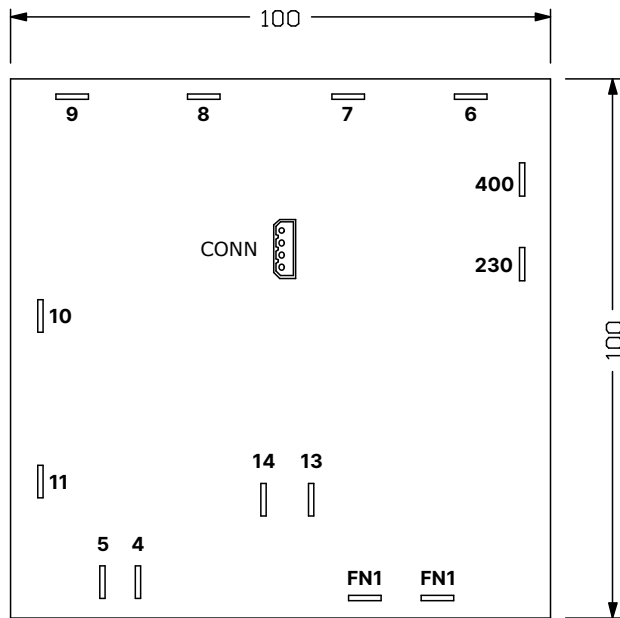
1 FLASH – Recommended routine maintenance alert
(reset by authorized service network)

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

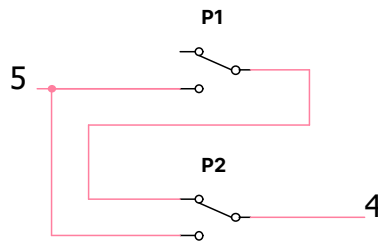
3 FLASHES – Micro-leaks / false starts
(turn off power for a few seconds to restore operation)

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

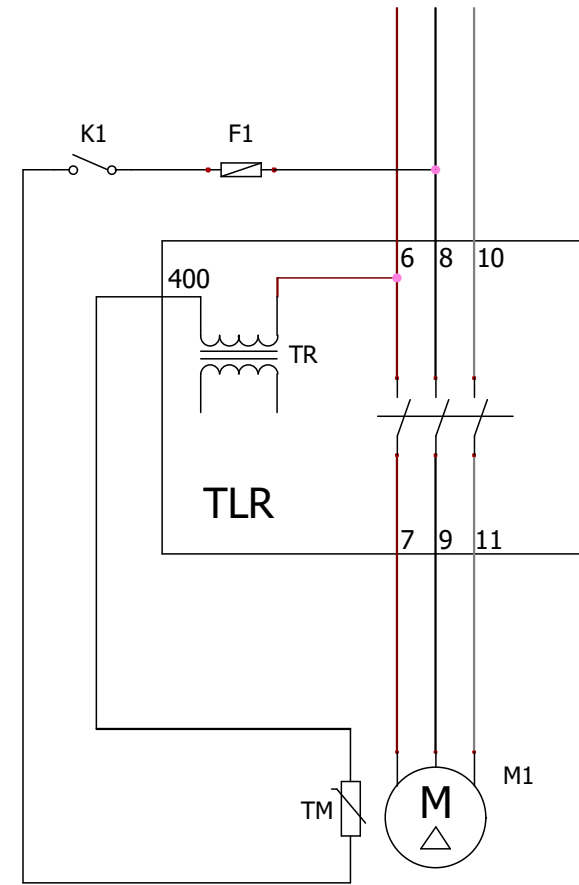
- P1 - Pressure switch generally mounted on the pump /
Pressostato generalmente montato su Pompa
- P2 - Pressure switch generally mounted on Bypass valve /
Pressostato generalmente montato su Valvola Bypass
- CONN - Programming interface connector with PC via TesterTlr software /
Connettore interfaccia programmazione tramite software TesterTlr



Example of pressure switch connection
Esempio collegamento pressostati



Example of a connection with main switch, fuse, and motor circuit breaker with 400Vac power supply
Esempio di collegamento con interruttore generale, fusibile e termica motore con alimentazione a 400Vac



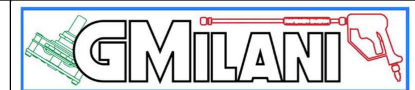
- M1 - Motor pump / Motore pompa
- TR- Internal TLR power supply / Alimentazione interna TLR
- F1 - Fuse / Fusibile
- K1 - Main switch / Interruttore generale
- TM - motor safety thermal switch / Interruttore termica sicurezza motore

TLR15

REV. DATE

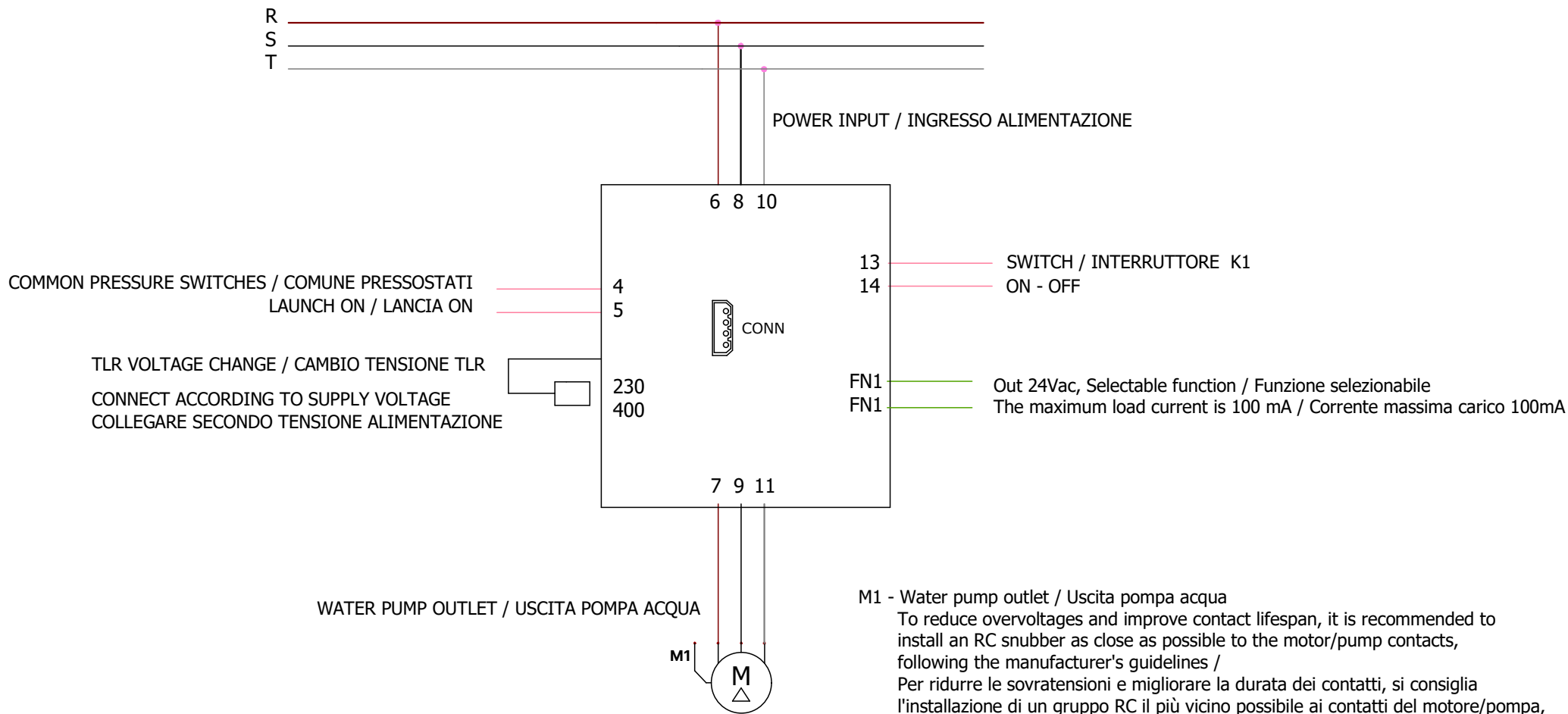
DESIGNED
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SCHEME

CONTRACT:



M1 - Water pump outlet / Uscita pompa acqua
To reduce overvoltages and improve contact lifespan, it is recommended to install an RC snubber as close as possible to the motor/pump contacts, following the manufacturer's guidelines / Per ridurre le sovratensioni e migliorare la durata dei contatti, si consiglia l'installazione di un gruppo RC il più vicino possibile ai contatti del motore/pompa, seguendo le indicazioni del produttore del motore.

K1 - Low Voltage Switch / Interruttore Bassa Tensione

FN1 - 24VAC output, configurable via software:
For external hour meter / Per contaore esterno
As a warning indicator / Per spia segnalazione

CONN - Connector interface with PC / Connettore interfaccia PC
In single phase do not use 10-11 / In monofase non usare 10-11

TLR15

REV.	DATE
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SCHEME

CONTRACT: