

G.MILANI S.A.S.

DI TETTONI FABRIZIO & C.

VIA CAVAGLIETTO, 25

28010 - CAVAGLIO D'AGOGNA NO (ITALIA)

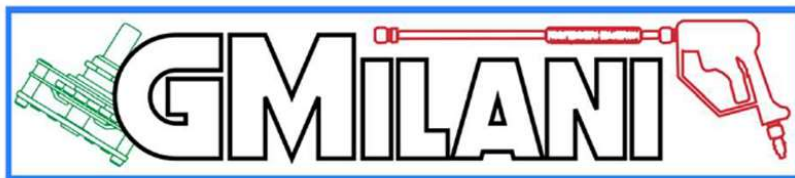
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EQUIPMENT FOR COLD WATER PRESSURE WASHERS

TLR 15

Features:

Power supply:

230/400 Vac 50/60 Hz

Supported motor loads:

400 V up to 15 kW – 20 HP

230 V up to 8 kW – 10.8 HP

Management:

microprocessor-controlled

Auxiliary output 24 Vac:

max 100 mA, function configurable via software

Control inputs:

low voltage pressure switches

Low voltage input:

for general On-Off control

Electrical connections:

Faston 6.3 mm

Mechanical characteristics:

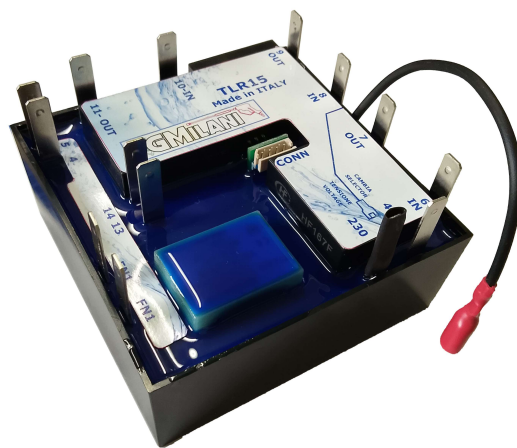
Dimensions (L x D x H): 100 x 100 x 48 mm, Weight: 900 g

Pump motor output:

internally controlled by 3 relays rated 90 A each, with a varistor on each relay for reduction of voltage spikes and contact arcing

Protection:

Electronic board encapsulated in epoxy resin against dust and humidity



Description:

The new TLR15 has been specifically designed for the management and control of cold water pressure washers, expanding the range of supported power ratings within the TLR family.

The board operates as a pump motor timer, with a standard timing set to 15 seconds (modifiable via software).

The TLR15 is fully microprocessor-controlled and can be configured directly by the operator using the TesterTLR software, available on Windows PC.

Each unit is serialized (serial number visible through software), ensuring full traceability of every device. It is possible to configure timings, enable or disable specific functions, and manage both total and partial hour counters.

Configurable 24 Vac output

The board is equipped with a 24 Vac output (max 100 mA), whose function can be selected via software between two modes:

- External hour meter: activates in parallel with the pump, typically used to drive an external hour counter (available upon request).
- Signal indicator: provides specific alerts through flashing signals based on number and sequence.

Maintenance management

The TLR15 integrates an internal hour counter, visible via software, enabling advanced machine maintenance management.

A partial hour counter is available for maintenance warning: when the set threshold is reached, the need for routine maintenance is indicated. Reset can only be performed via software.

It is also possible to define the board behavior when the threshold is reached:

- continue normal operation;
- completely stop the machine after exceeding a second configurable threshold.

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



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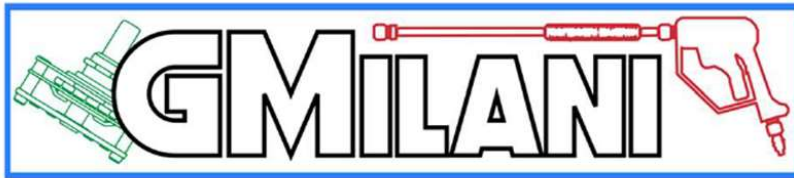
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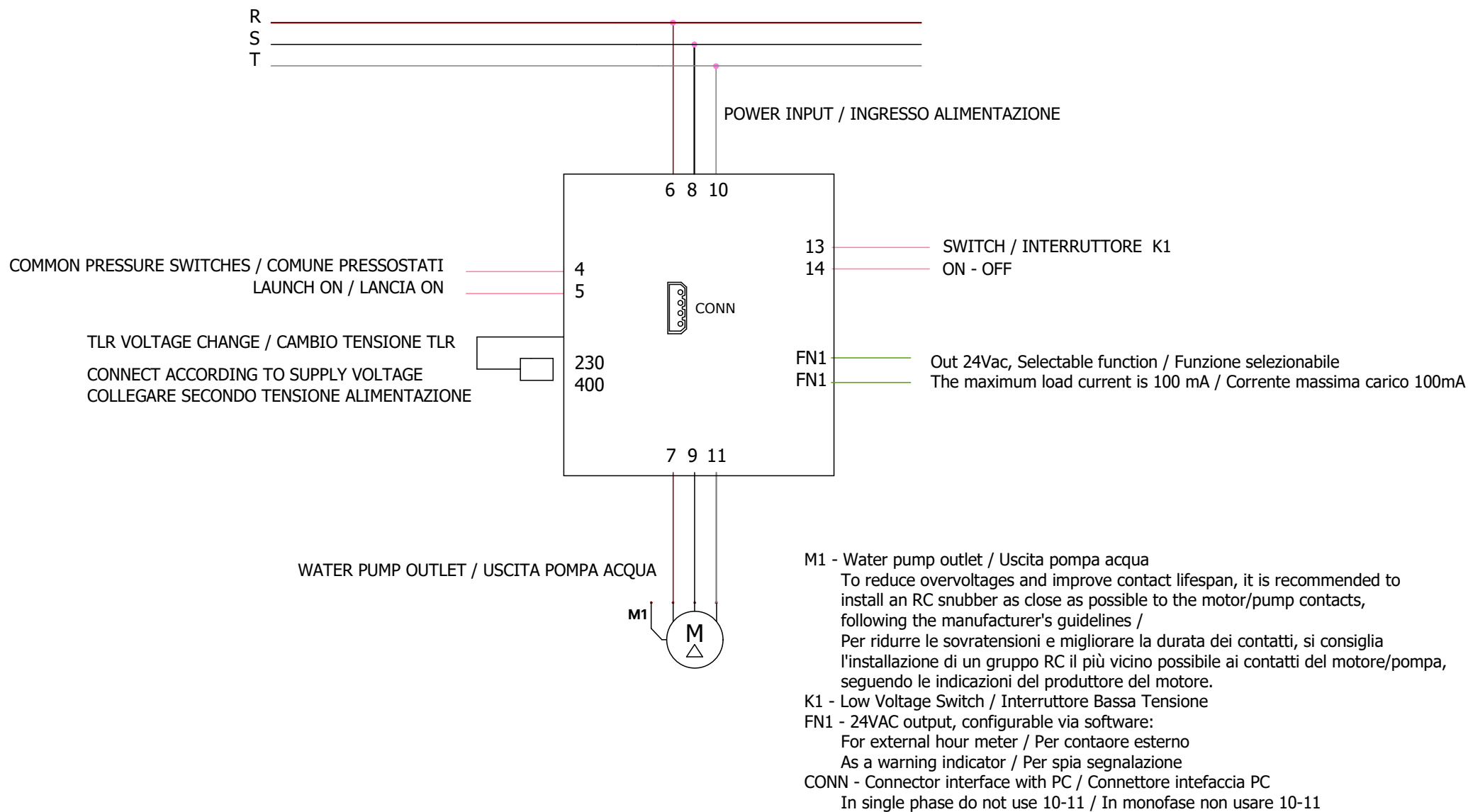
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ALARM INDICATION DESCRIPTION WITH ACTIVE WARNING LIGHT FUNCTION TLR 15

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)

MADE IN ITALY

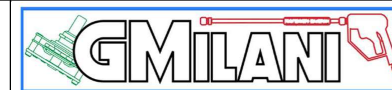


TLR15

REV. DATE

DESIGNED
G.Milani

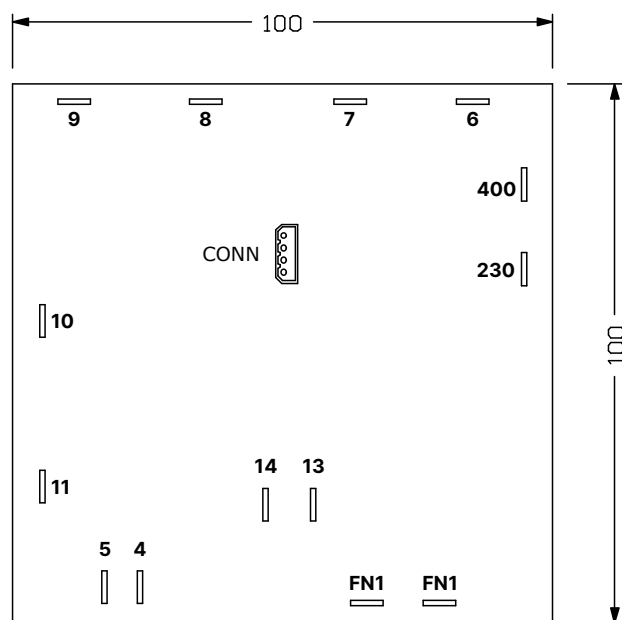
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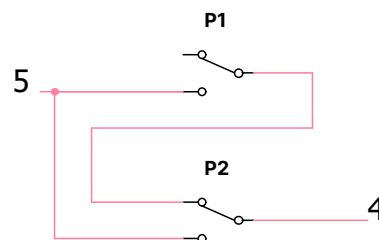
SCHEME

CONTRACT:

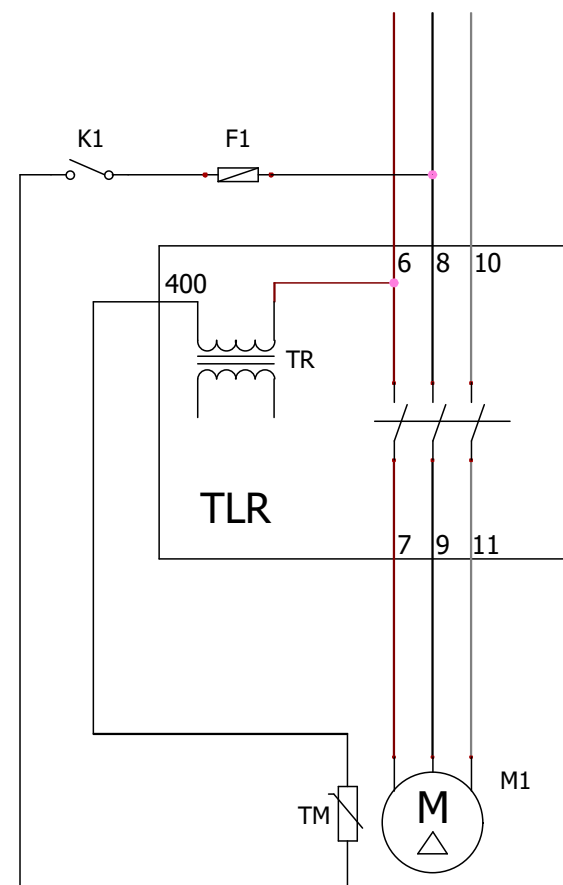
- P1 - Pressure switch generally mounted on the pump / Pressostato generalmente montato su Pompa
- P2 - Pressure switch generally mounted on Bypass valve / Pressostato generalmente montato su Valvola Bypass
- CONN - Programming interface connector with PC via TesterTlr software / Connettore interfaccia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



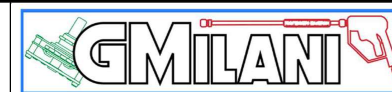
- M1 - Motor pump / Motore pompa
- TR- Internal TLR power supply / Alimentazione interna TLR
- F1 - Fuse / Fusibile
- K1 - Main switch / Interruttore generale
- TM - motor safety thermal switch / Interruttore termica sicurezza motore

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