

Date : 20/11/24
Rev . 04UK

PR .T : FG006183

USE AND INSTALLATION HANDBOOK

SIMPLEX-UP

CONTROL PANEL FOR 1 ELECTRIC PUMP WITH CURRENT CONTROL.

SIMPLEX-UP



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1. WARNINGS

The following symbols indicate the potential hazard resulting from failure to observe the associated warning, as specified below:



**DANGER
RISK OF ELECTRIC
SHOCK**

Failure to observe this warning may result in electric shock



DANGER

Failure to observe this warning may cause personal injury and/or damage to property



WARNING

Failure to observe this warning may cause damage to the pump, the unit or the system

- **CAUTION:**
Make sure the pumps are fully primed before commissioning to avoid dry run damage.
- **CAUTION:**
The control panel must be connected by a qualified electrician in compliance with the electrical regulations in force.
- **CAUTION:**
The electric pump or the motor and the panel must be connected to an efficient grounding system in compliance with the electrical regulations locally in force.
- **CAUTION:**
Ground the unit before carrying out any other operation.
- **CAUTION:**
The electric pump or the motor can start up automatically.
- **CAUTION:**
Always disconnect the power supply before proceeding to carry out any operation on the electrical or mechanical components of the unit or system.

2. OVERVIEW

The purpose of this manual is to provide the necessary information for the proper installation, use and maintenance of SIMPLEX-UP.

The user should read this manual before operating the unit as improper use may cause damage to the machine and lead to the forfeiture of the warranty coverage. Always specify the model and Batch number when requesting technical information or spare parts from our Sales and Service department.

The instruction and warnings given below concern the standard version, refer to the sale contract documentation for modifications and special version characteristics. For instructions, situations and events not considered in this manual or in the sale documents please contact your customer service.

These units must be installed in sheltered, well-ventilated, non-hazardous environments and must only be used within a temperature range -5°C - +40°C

3. HANDLING



DANGER



WARNING

The panel must be handled with care, as drops or impacts can cause damage without any visible external signs.

STORAGE

If for any reason the unit is not installed immediately after it has reached its destination it must be stored in all external packaging and the separately packed accessories must remain intact.

The unit must be kept dry and protected from the weather, especially from freezing temperatures, and from any impacts or drops.

PRELIMINARY INSPECTION:

Remove all the external packaging, visually inspect the control panel to ensure it has suffered no damage during shipping.

If any damage is visible, inform a dealer as soon as possible, no later than five days from the delivery date.

4. APPLICATION AND WORKING LIMITS



**DANGER
RISK OF ELECTRIC
SHOCK**



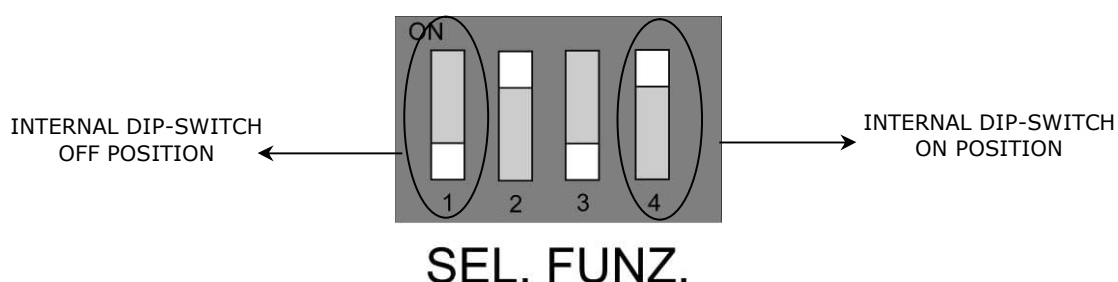
WARNING

SIMPLEX-UP is designed for controlling 1 motor or electric pump used in various applications such as,
emptying wells or water tanks for clean or wastewater
Pressurisation systems for water supply

Our company shall not be liable for any damage caused or suffered by the unit as a result of its unauthorised or improper use.

TECHNICAL FEATURES:

- Electronic control panel
- Power Supply - Model dependant
- 1ph~50/60Hz **110V** +/- 10% (SIMPLEX-UP-M - 110v)
- 1ph~50/60Hz **230V** +/- 10% (SIMPLEX-UP-M - Single-Phase)
- 3ph~50/60Hz **400V** +/- 10% (SIMPLEX-UP-T - Three-phase)
- Control input from NO contact (float/pressure switch)
- Alarm control input from NO contact (float/pressure switch)
- Control input with three minimum level sensors
- Input for motor winding thermal protection (KLIXON)
- Internal selector for operating mode (Filling/Emptying) via dip-switch 1&2
- Incorporated sensor sensitivity adjustment
- Push buttons for AUTO-OFF-MANUAL motor operation (MANUAL temporary)
- Green LED for power on
- Red Alarm LED for min/max water level
- Green LED for motor running
- Red led for overload motors protection alarm
- Red LED for alarm - Motor Klixon activated
- Adjustable electronic protection for motors overload
- Protection activation time: 5 seconds
- Incorporated dip-switch for disabling the motor protection
- Internal Sensors alarm cut off dip-switch (dip-switch 3)
- Motor protection fuses
- Auxiliary circuits protection fuse
- Volt free alarm output with switching NO-C-NC contacts, capacity 16A 250V (resistive load)
- Single-phase version adapted for the insertion of a capacitor (not included)
- Main circuit-breaker with door lock
- Output with cable clamps
- Protection IP55 ABS Enclosure
- Ambient temperature: -5/+40 °C
- Relative humidity 50% at 40 °C (not condensed)



Do not use the product in environments where dust, acids, corrosive and/or flammable gases etc. are present.

5. STANDARD OPERATION



DANGER
RISK OF ELECTRIC
SHOCK



DANGER



WARNING

The **Mains power on** LED  is lit to indicate the panel is switched on and power is present

The motor can be controlled directly by the operator with '**man**' Button (**Manual**) or by remote signals (**Automatic**) by means of the **Automatic – Off – Manual** buttons

When the AUTO button is pushed the related GREEN LED  above the button lights and the control panel is ready to receive remote signals from the external inputs.

Default setting

The motor works in **Automatic** by means of the **COM-MIN-MAX** inputs that can be any clean contact (e.g. float, pressure switch or probe)

Operation mode is dependant on the settings of **DIP-SWITCH 1 AND 2;**

1=ON 2=OFF → Emptying

1=OFF 2=ON → Filling

ATTENTION: it is dangerous to set both the dip-switches to on or off position.
THIS WILL CALL CAUSE A MALFUNCTION OF THE PANEL

Note: When using this configuration, the sensors alarm must be overridden by SETTING THE DIP-SWITCH 3 TO OFF POSITION, otherwise the "level alarm" LED for the min/max level will come on (based on the E/F setting) and the alarm output will be activated.

The sensitivity of the level sensors can be adjusted by means of the "SENS. SONDE" (SENSOR SENSITIVITY) Trimmer, based on the conductivity of the liquid in which they are immersed.

The green pilot light "**MOTOR ON**" indicates the functioning of the motor.

If the Overload protection is tripped, the motor stops and the red "**PROTECTION ON**" and "**LEVEL ALARM**" LED lights on. **Push RESET to reset the alarm;**

Check for the cause of the malfunction before restoring the motor to operation

The amperage protection tripping current can be adjusted by means of the "CORRENTE MOTORE" (MOTOR CURRENT) Trimmer, based on the rated absorption of the motor; the adjustment can be made from a minimum of 2A to a maximum of 22A.

The cut-in delay time is fixed at 5 seconds and can be overridden during setting by bridging the "ESC.TIM.TA" Jumper

GENERAL NOTES :

During the calibration for Over-Load Protection, start the motor 2-3 times to check the correct operating.

6a. INSTALLATION



DANGER
RISK OF ELECTRIC
SHOCK



DANGER



WARNING

Line of supply current

Connect the unit at ground before carrying out any other operation.

The voltage input corresponds to the data written on the panel and on the pump.

(**400V** $\pm$ 10% 50/60Hz x **SIMPLEX-UP-T**)
(**230V** $\pm$ 10% 50/60Hz x **SIMPLEX-UP-M**)
(**110V** $\pm$ 10% 50/60Hz x **SIMPLEX-UP-M 110v version**)

Make sure that the power supply cable can bear the nominal current and connect it to the terminals of the main switch of the control panel.

If the cables are exposed, they must be appropriately protected.

The line must be protected with a differential circuit breaker measured in accordance with the regulations locally in force.

Line of motor power supply

Connect the unit at ground before carrying out any other operation.

The voltage input corresponds to the data written on the motor.

(**400V** $\pm$ 10% 50/60Hz **three-phase**)
(**230V** $\pm$ 10% 50/60Hz **single-phase**)
(**110V** $\pm$ 10% 50/60Hz x **SIMPLEX-UP-M 110v version**)

Doing some starting make sure that the motor respects the right direction of rotation usually indicated by an arrow printed on the motor.

Line of external control

It is possible to control the motor in "**Automatic**" using a normally open contact as a float switch or a pressure switch.

Controls circuits are very low voltage

Make all connections with the control panel switched off and with the circuit breaker disconnected.

6b. INSTALLATION

- TO FIX THE CABLES IN THEIR TERMINALS USE A TOOL OF THE PROPER SIZE TO AVOID THE DAMAGING OF THE SCREWS OR OF THEIR SEAT. If use an electric screwdriver pay attention not to spoil the thread or the screws.
- FIX THE CONTROL PANEL TO A WALL AS IN PICTURE N.1 WITH SCREWS AND SCREW ANCHOR USING THE HOLES ARRANGED IN THE BOX OR THE FIXING BRACKET IF PRESENT.

AFTER THE FIXING, REMOVE EVERY PLASTIC OR METALLIC SURPLUS (ex. Pieces of copper of the cables or plastic shavings of the box) INSIDE THE BOX BEFORE SUPPLYING POWER.



Fig.1

Important Note:

DO NOT INSTALL THE CONTROL PANEL CLOSE TO OBJECTS IN CONTACT WITH FLAMMABLE LIQUIDS, WATER OR GAS.

7a. ELECTRICAL CONNECTION SIMPLEX-UP-T



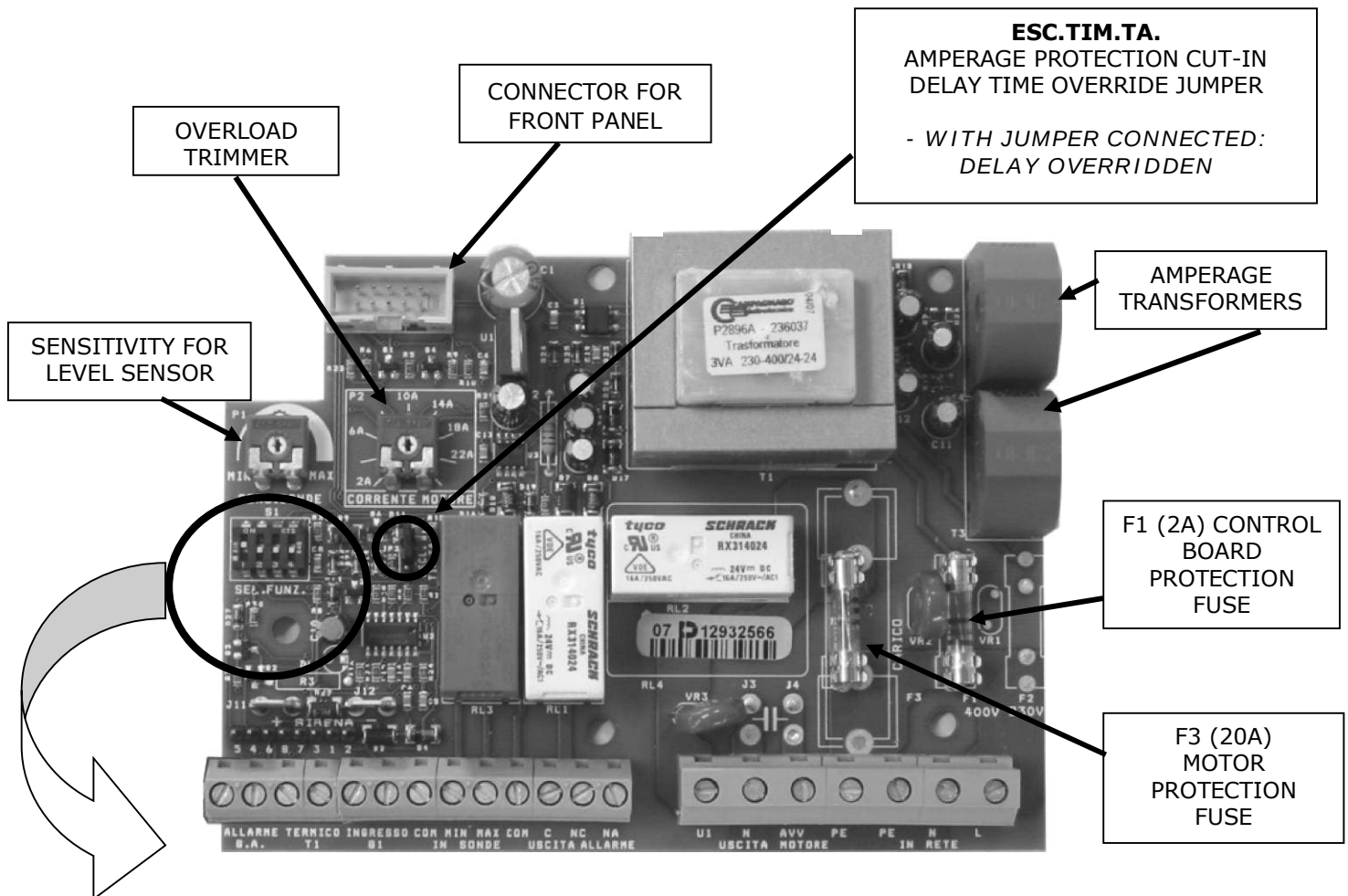
DANGER
RISK OF ELECTRIC
SHOCK



DANGER



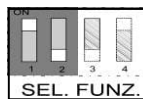
WARNING



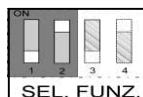
DETAILS:

INTERNAL DIP-SWITCHES:

1=ON; 2=OFF -> EMPTYING ----->



1=OFF; 2=ON -> FILLING ----->



3=OFF -> LEVEL ALARM DISABLED ----->



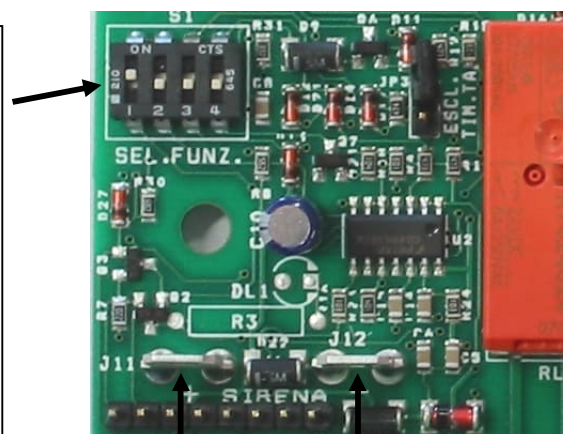
3=ON -> LEVEL ALARM ENABLED ----->



**4=ON -> AMPEROMETRIC PROTECTION ---->
ENABLED (Default)**



**4=OFF -> AMPEROMETRIC PROTECTION -->
DISABLED [CAUTION]**



OUTPUT 12Vcc for SIREN only
activated by high level float switch
(ALLARME G.A.)

7 b. ELECTRICAL CONNECTION SIMPLEX-UP-M



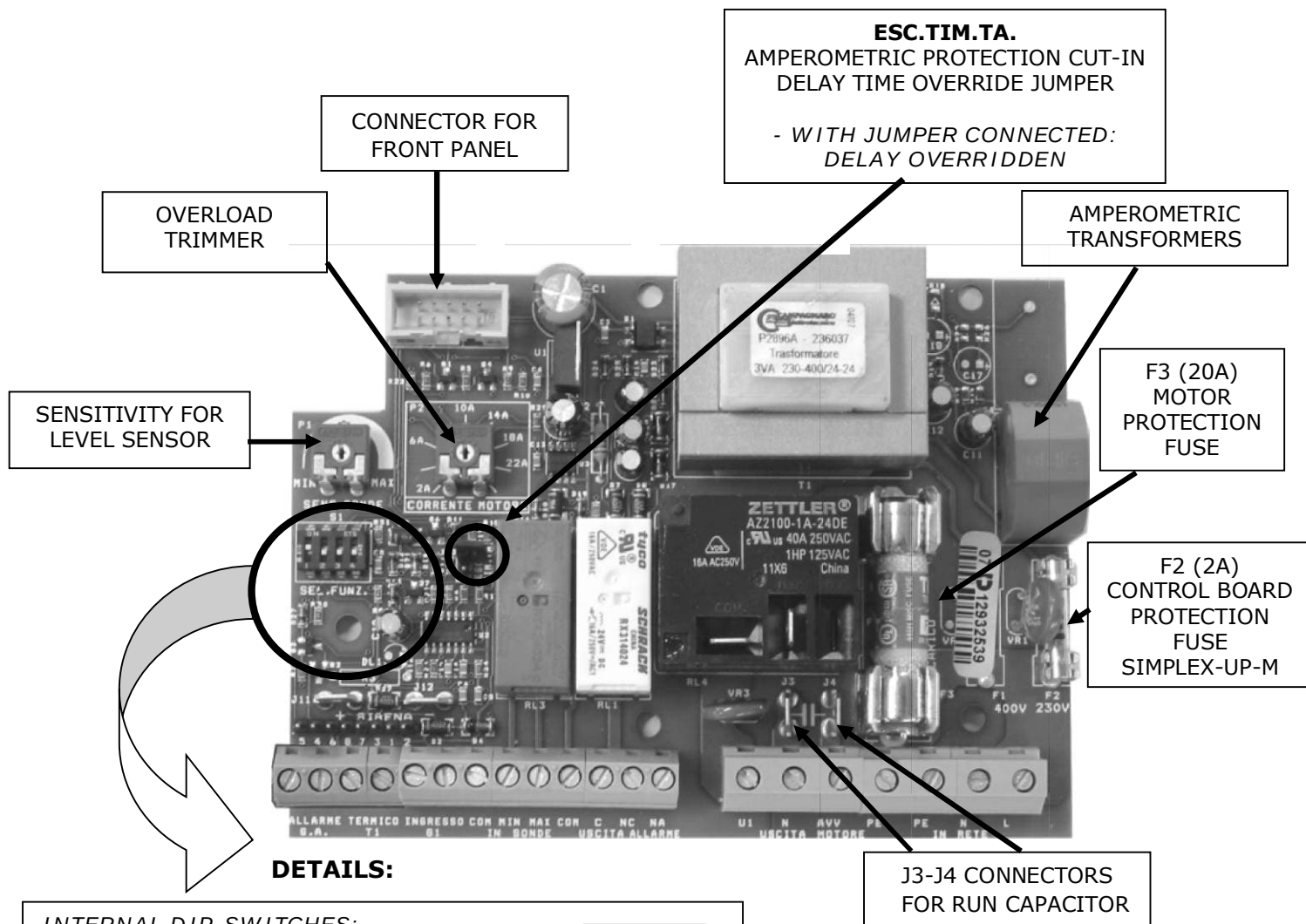
DANGER
RISK OF ELECTRIC
SHOCK



DANGER



WARNING

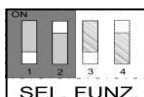


INTERNAL DIP-SWITCHES:

1=ON; 2=OFF -> EMPTYING ----->



1=OFF; 2=ON -> FILLING ----->



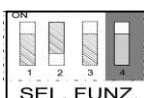
3=OFF -> LEVEL ALARM DISABLED ----->



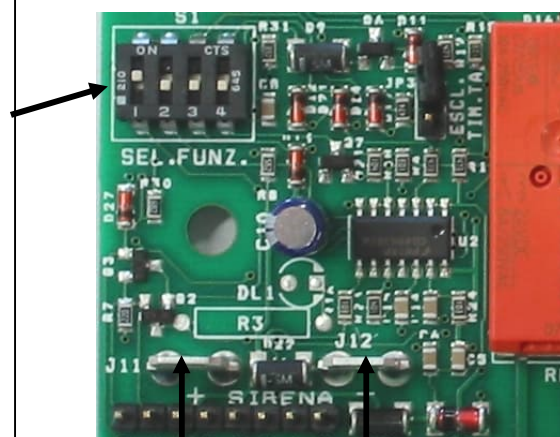
3=ON -> LEVEL ALARM ENABLED ----->



4=ON -> AMPEROMETRIC PROTECTION --> ENABLED (Default)



4=OFF -> AMPEROMETRIC PROTECTION --> DISABLED [CAUTION]



8. LEVEL CONTROL FUNCTION (EMPTYING / FILLING)



DANGER
RISK OF ELECTRIC
SHOCK



DANGER



WARNING

Floats or Probes can be used with the Simplex in either Emptying or Filling mode, to keep the levels between a maximum and minimum level

Emptying or Filling mode can be set using **dip-switches 1 and 2** on the PCB board:

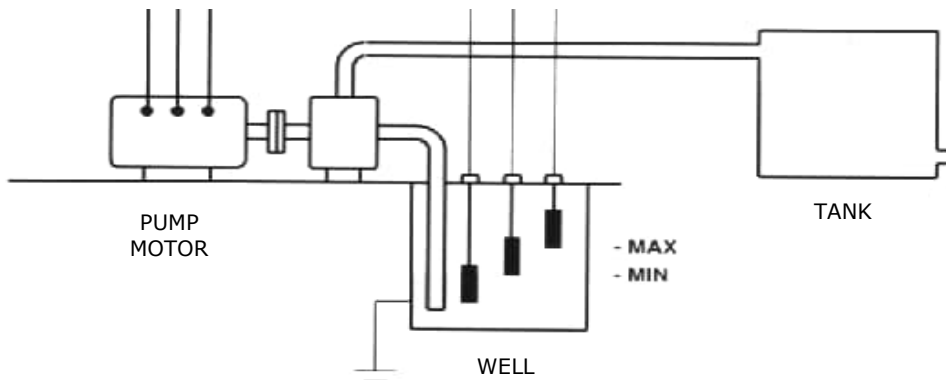
EMPTYING:

Set the dip-switches **1=ON** and **2=OFF**.

The control panel is enabled only when all the sensors are immersed in the fluid (**COM-MIN** and **COM-MAX** contacts closed).

The motor is enabled by the closing of the **G1** contact (float/pressure switch). **LINK**

The motor is cut out by the sensors when the **COM-MIN** contact opens. The alarm output is also enabled.



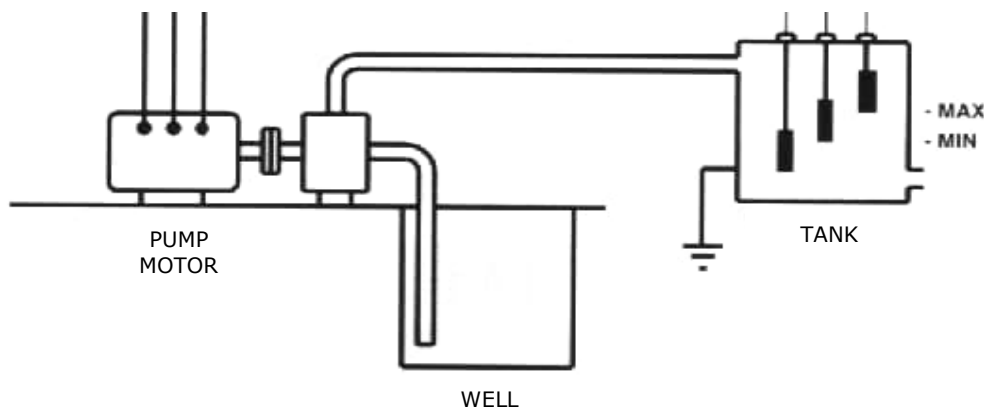
FILLING:

Set the dip-switches **1=OFF** and **2=ON**.

The motor is enabled when the two MIN and MAX sensors are not covered by the fluid (**COM-MAX** and **COM-MIN** contacts open).

The motor is enabled when the **G1** contact closes (float/pressure switch). **LINK OUT**

The motor is cut out by the sensors when the **COM-MAX** contact closes. The alarm output is also enabled.



9a. REGULATION AND CALIBRATION

On installation, the amperage protection must be calibrated to the motor and application. The Protection Delay is set at a fix time of 5 seconds, to allow for brief increased starting load.

CALIBRATING THE AMPERAGE

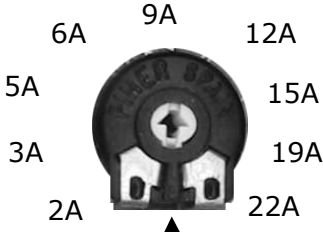
During the calibration close the JUMPER 'E.T.TA' to disable the delay

Suppose that we want to set the Protection from Overload for a 3 ~motor of 5,5kW (7,5Hp) with a Nominal Supply Current of about 12 A.

- Override the current protection cut-in delay time by **CONNECTING** the E.T.TA JUMPERS
- Set the maximum value with the internal regulator on the amperage dial (turn clockwise)
- Turn the motor on and, with the amperage dial, reduce the dial slowly until the red '**Motor Protection**' LED comes on and the motor stops
(THIS SHOULD CORRESPOND APPROXIMATELY TO THE RATED CURRENT OF THE MOTOR)
- Increase the amperage dial by approximately 10-15% of the trip value.
- Reset the Protection Delay by **REMOVING ESCL.TIM.TA JUMPERS**
(The delay is used to allow for the initial inrush currents)

EXAMPLE OF CALIBRATION FOR MOTORS FROM 2 to 22A

- Current Protection Regulator



Set the current protection of the motor at a value superior of about 10-20% of the nominal current.

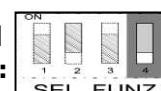
Example: for a motor with nominal electrical input of 10A set it at about 12A

Trimmer "CORRENTE"

N.B.: When the setting is complete, reset the protection tripping current delay time by removing the "ESC.TIM.TA" JUMPER.

- At this point the protection is set and the control panel can be set for the desired type of operation: EMPTYING – FILLING.

The Motor overload cut-out can be overridden by **SETTING** the internal **DIP-SWITCH 4 TO OFF POSITION (AMP. PROTECTION OVERRIDEN):**



In this way the protection cut-in will be signalled by the "Motor protection enabled" light, but the motor will not be stopped.

10. STOP OF THE PUMP



WARNING

The MOTORS can be switched off in the following ways:

- In "manual", the motors stop when the  button is released.
- In "automatic", the motors stop when the FLOAT SWITCH is no longer enabled or when the current protection is active, or by pushing the "0 - RESET" button
- Turning the main isolator switch with door interlock to "0".

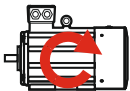
11. LIGHTS and PUSH-BUTTONS ON THE FRONT-PANEL



INDICATES THAT THE MAIN POWER IS ON (**GREEN LIGHT**)



INDICATES THAT THE ALARM LEVEL IS ON (**RED LIGHT**)



INDICATES THAT THE MOTOR IS RUNNING (**GREEN LIGH**)



LEVEL AND MOTOR COMBINED INDICATES THAT THE OVERLOAD PROTECTION IS ON (**RED LIGHTS**)



INDICATES THAT THE KLIXON THERMAL PROTECTIONS IS ON (**RED LIGHT**)



KEEPING THE MANUAL BUTTON PRESSED WILL OVERRIDE EVERY ALARM AND RUN THE PUMPS UNTIL THE BUTTON IS RELEASED.



PUSH TO DISCONNECT THE MOTOR AND RESET THE ACTIVE PROTECTIONS.



WHEN PUSHED, THE AUTOMATIC MODE IS ACTIVATED WHICH IS INDICATED BY THE GREEN LED; THE BOARD IS READY TO RECEIVE SIGNALS FROM THE FLOATS, PRESSURE SWITCHES OR SENSORS.

12. MAINTENANCE



DANGER
RISK OF ELECTRIC
SHOCK



DANGER



WARNING

SIMPLEX-UP does not require any routine maintenance provided that their working limits are observed. Any maintenance operations must be performed by qualified and experienced personnel, in compliance with the safety regulations in force.

DANGER!

Make sure that SIMPLEX-UP is disconnected from the power supply before performing any maintenance operations.

13. WASTE DISPOSAL

After the control panel has been installed, the customer must ensure of the appropriate disposal of the waste materials according to the local legislation. If the control panel or parts of it must be taken out of service and dismantled, follow local regulations regarding sorted waste disposal. Refer to the appropriate recycling centres.

CAUTION: Contamination of the environment with hazardous substances such as battery acid, fuel, oil, plastic, copper, etc., may cause serious damage to the environment and endanger people's health.

14. WARRANTY

Our products are guaranteed for a year from the date of commissioning; this applies only to products purchased directly or from authorised retailers.

The warranty does not extend beyond 15 months from the date of shipping.

If the shipping documentation is missing, the date of manufacture is given in the code on the nameplate or fused into the interior of the terminal box.

The warranty covers all manufacturing defects of material manufactured by us; it covers replacement or repair only, at our premises and by our staff, of the defective panel or part.

The warranty does not provide for any claims by the customer. The warranty does not cover damage caused by faulty electrical connections, lack of adequate protection, incorrect assembly, incorrect use or any negligence in installing and operating the plant.

The WARRANTY is also void in the following circumstances:

- damage due to corrosion or abrasion of any type or nature
- malfunction due to improper installation
- repair, disassembly or tampering by unauthorised persons
- failure by the customer to pay due amounts.

The defective product must be returned to our factory.

We reserve the sole right to determine the cause of the defect and whether it is covered by the warranty or not.

After the repair, the goods will be returned to the Customer.

WE DECLINE all liability for damages and injury caused by our products.

Our company reserves the right to modify its products without notifications.

Any controversy arising from the terms of this warranty shall be resolved in the Padua Court, even if payment is agreed by bank's draft.

For any further information, refer to the sales contract.

15. SPARE PARTS

Always state the exact model identification number and construction number when requesting technical information or spare parts from our sales and service centre.



Use only original spare parts when replacing any faulty components.



The use of unsuitable spare parts can cause malfunctions, personal injury and damage to property.

16. CONFORMITY DECLARATION

FOURGROUP SAS DI BROX S.r.l. with centre in Polverara via Enrico Fermi, 8 – Padova – Italy, declares that the products

SIMPLEX-UP-M, SIMPLEX-UP-T

are in compliance with the following European directives and with the national directives of actuation:

- Machine 2006/42/CE
 - European Directive 2014/35/UE
 - Electromagnetic compatibility 2014/30/EU
- and the following technical rules:
- EN 61439-1, EN 61439-2, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

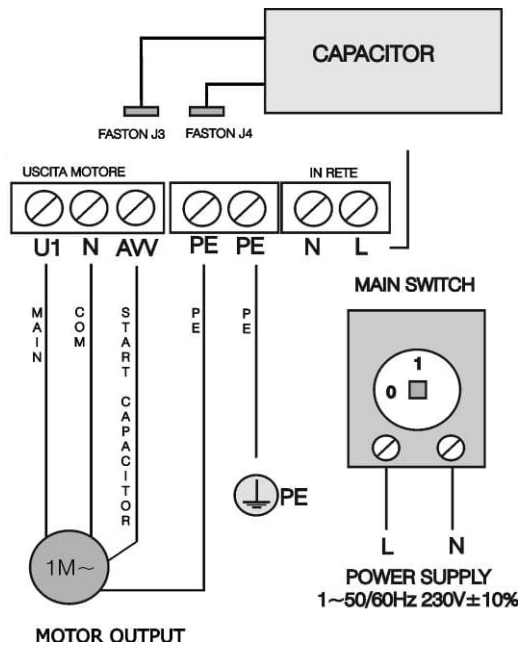
Polverara – Italy, 30/11/2019

LEGAL REPRESENTATIVE

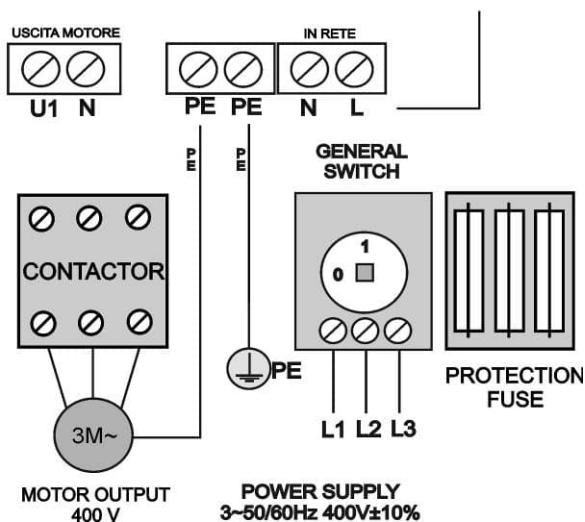
(Grigoletto Per. Ind. Walter)

A handwritten signature in black ink, appearing to be 'Walter Grigoletto', written over a horizontal line.

17. MAINS CONNECTION DIAGRAMS FOR SIMPLEX-UP



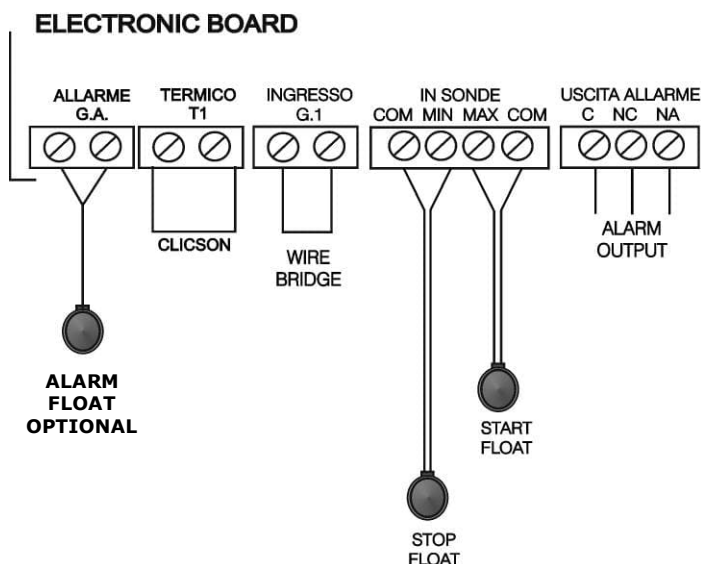
**Single phase
Models**



**Three phase
415v
Models**

18. CONNECTION DIAGRAMS FOR SIMPLEX-UP

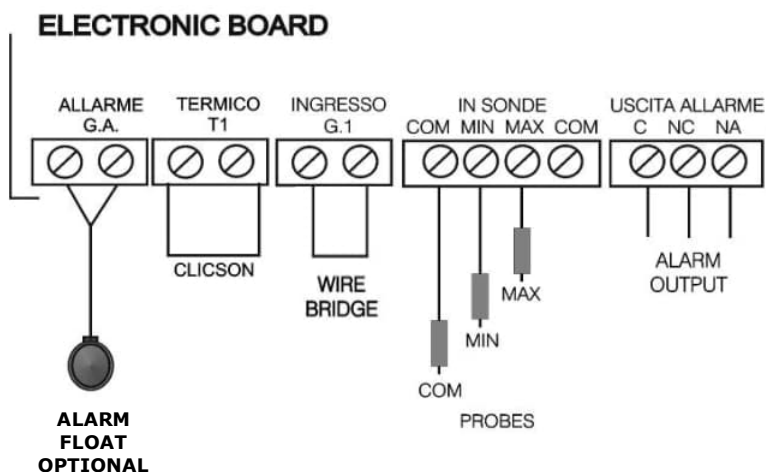
CONFIGURATION 1 (Default)



Use:
2 float operation for
upper/lower limit

**Dip switch 3 -level alarm
Must be disabled / off**

CONFIGURATION 2 PROBES (NOT USE WITH DIRTY WATER)

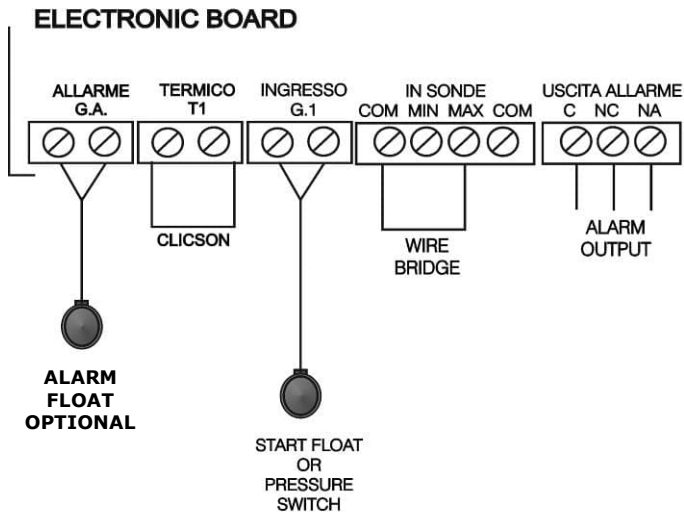


Use:
2 or 3 probe operation for
upper/lower limit

**Dip switch 3 -level alarm
Must be disabled / off**

18. CONNECTION DIAGRAMS FOR SIMPLEX-UP

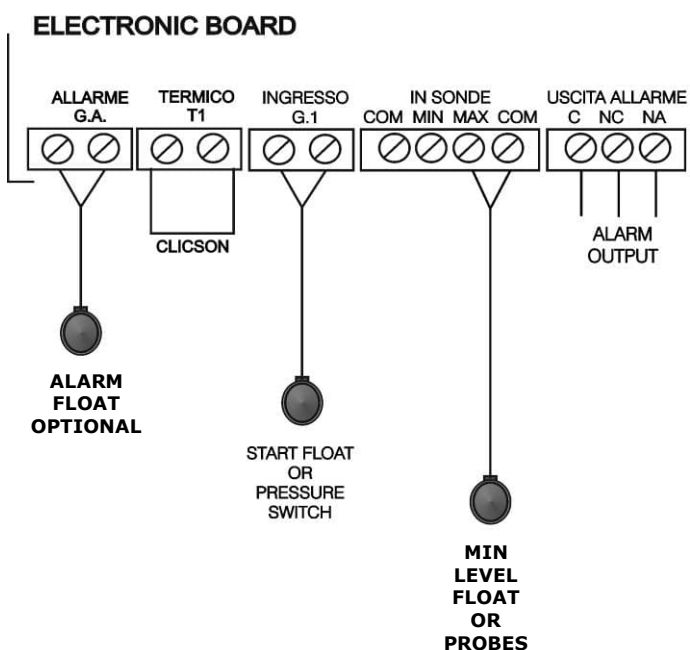
CONFIGURATION 3



Single float or pressure switch operation

E.g. Booster pump

CONFIGURATION 4



Single float or pressure switch operation
With low/minimum level float / probe

E.g. Booster pump
+ out of water protection

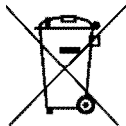
**Dip switch 3 -level alarm
Must be enabled / on**

19. TROUBLESHOOTING TABLE

ALARM/ANOMALY		CAUSE	SOLUTION
No active LED, the control panel does not respond to any input or command.		Lack of input power supply, incorrect power supply, interrupted fuses, disconnected or damaged connection cable between the control boards.	Check the presence and correct supply voltage to the panel. Check the fuses. Check that the connection cable between the 2 boards is inserted in the correct direction and that it is completely intact.
Red LED "level" lighted on		Minimum Level input OPEN (F.MIN) Max Level input CLOSED (F.A.)	Check the correct connection of the float switches (N.O. without water) and their correct functioning / positioning.
Klixon Pump X Tripped		The thermal protection in the pump winding (KLIXON) has opened. Or the wire bridges in T1/T2 are missing	Check the cause for the pump overheating
The motor X does not start in AUTOMATIC mode		AUT key not pressed (green LED off), inputs (G1 G2) open, active protections	Press the AUT key and check that the green LED turns on and remains lit. check that the input commands (G.MIN, G1 and G2) are closed, check that there are no red alarm LEDs lit (klixon, Min Level, motor protection).
Overcurrent Pump X		The indicated pump has exceeded the maximum current value set by the relative potentiometer "current protection".	Check the current absorption of the pump and check the correct protection setting based on the motor rated current (+ 10%). Check that the "ESCL TIM TA" jumpers are excluded or opened.
Pumps do not stop even if G1 and G2 are open		Active Self Holding with closed F.MIN input, Float switches blocked or damaged with possible water infiltration, junction between floats and control panel, damaged or not sealed.	Check if the electronic card is set for the correct functioning mode with self-holding activated/deactivated. Check that the float switches are working correctly (try disconnecting them from the board's terminal and Check that motors are switched off). Check the condition of any junction boxes between float switches and control panel (it must be perfectly watertight).
Single-phase 230V~ pumps do not start		Incorrect connections, interrupted fuses, inactive controls, main power failure.	Check that the main switch is in ON position and that the correct supply voltage is present (230V~50/60Hz±10%). Check the correct connection between the motor and the terminals of the electronic card (U, N, AVV), if the capacitor is present inside the panel. Check the condition of the fuses. Check that the MAN and AUT commands respond correctly. Check that the call of external commands is present in AUTOMATIC mode.
Three-phase 400V~ pumps do not start		Incorrect connections, interrupted fuses, inactive controls, main power failure.	Check that the main switch is in ON position and that the correct supply voltage is present (400V~50/60Hz±10%). Check the correct connection between the motor and the contactors (U,V,W). Check the condition of the fuses. Check that the MAN and AUT commands respond correctly. Check that the call of external commands is present in AUTOMATIC mode.

SMALTIMENTO DEL PRODOTTO A FINE VITA UTILE

INFORMAZIONE AGLI UTILIZZATORI ai sensi dell'art. 14 della DIRETTIVA 2012/19/UE DEL PARLAMENTO EUROPEO E DEL CONSIGLIO del 4 luglio 2012 sui rifiuti di apparecchiature elettriche ed elettroniche (**RAEE**)



Il simbolo del cassonetto barrato riportato sull'apparecchiatura elettrica ED elettronica (**AEE**) o sulla sua confezione indica che il prodotto alla fine della propria vita utile deve essere raccolto separatamente e non smaltito assieme agli altri rifiuti urbani misti.

AEE DOMESTICHE

Si prega di contattare il proprio comune, o autorità locale, per tutte le informazioni inerenti i sistemi di raccolta separata disponibili nel territorio. Il rivenditore della nuova apparecchiatura è obbligato al ritiro gratuito della vecchia, al momento dell'acquisto di una apparecchiatura di tipo equivalente, ai fini dell'avvio del corretto riciclo/smaltimento. In Italia le AEE domestiche sono i quadri elettrici e schede elettroniche, nelle altre nazioni europee occorre verificare tale classificazione.

AEE PROFESSIONALI

La raccolta differenziata della presente apparecchiatura giunta a fine vita è organizzata e gestita dal produttore. L'utente che vorrà disfarsi della presente apparecchiatura potrà quindi contattare il produttore e seguire il sistema che questo ha adottato per consentire la raccolta separata dell'apparecchiatura giunta a fine vita, oppure selezionare autonomamente una filiera autorizzata alla gestione. L'utente dovrà, in ogni caso, rispettare le condizioni di ritiro poste dalla Direttiva 2012/19/UE. Lo smaltimento abusivo del prodotto da parte dell'utente comporta l'applicazione delle sanzioni previste dalla legge.

DISPOSAL OF THE PRODUCT AT THE END OF USEFUL LIFE

INFORMATION TO USERS pursuant to art. 14 of DIRECTIVE 2012/19 / UE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment (**WEEE**)



The crossed-out wheeled bin symbol on the Electronic Electrical Equipment (EEE) or on its packaging indicates that the product at the end of its useful life must be collected separately and not disposed of together with other mixed municipal waste.

DOMESTIC AEE

Please contact your municipality, or local authority, for all information regarding the separate collection systems available in the area. The retailer of the new equipment is obliged to collect the old one free of charge, when purchasing an equivalent type of equipment, for the purpose of starting the correct recycling / disposal. In Italy the domestic EEE are the electric control panels and electronic boards, in other European countries it is necessary to verify this classification.

PROFESSIONAL AEE

The separate collection of this equipment at the end of its life is organized and managed by the manufacturer. The user who wants to get rid of this equipment can then contact the manufacturer and follow the system that it has adopted to allow the separate collection of equipment at the end of life, or select a supply chain independently authorized to manage, in any case, the user must comply with the withdrawal conditions established by Directive 2012/19 / EU.

The illegal disposal of the product by the user involves the application of the penalties provided for by law.

[illegible]

NOTES

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