

# SHEET INSTRUCTIONS USE AND MAINTENANCE R3F/S C

BEFORE USE THE APPARATUS READ YOU INSTRUCTIONS ATTENTIVELY CONTAINED NEL PRESENT SHEET OF INSTRUCTIONS, IN THEY AS FURNISH IMPORTANT RIGUARDANTI INDICATIONS YOU SAFETY OF INSTALLATION, IT OF USE IS MAINTENANCE.PRESERVE THIS SHEET OF INSTRUCTIONS FOR EACH ULTERIOR FUTURE CONSULTATION WITH CARE

## GENERAL INSTRUCTIONS

Before connect the equipment to the mains socket, make sure that the nameplate data match those of the mains power supply. Only use this equipment in accordance with the porpouse for which it is designed; i.e. for regulation **stabilized** of the amplitude of an **electromagnetic vibrator feeder**.Any other use is to considered improper, therefore hazardous.

The Manufacturer cannot be held liable for any improper, incorrect or unreasonable use of the equipment, switch it off and **do not tamper with it**. If repair is needed, please contact the Manufacturer's

Technical Service Centre **only**, as they use original spare parts. Failure to observe the above the recommendations could impair the **safety** of the equipment.

All operations regarding adjustment, measurement and testing when required, must **only** be carried out by **authorized and qualified** personnel.

The Manufacturer shall accept no liability for damage to persons, animals or objects caused by work on the equipment carried out by unauthorized and unqualifield personnel.



THIS EQUIPMENT CONFORMS WITH ECC DIRECTIVE 93/68 AND 89/336 (EMC - ELECTROMAGNETIC COMPATIBILITY).



## PARTICULAR INSTRUCTIONS

Before give voltage to the apparatus connect the tension of feeding (clamps 1-2/CONN1), **verifying that the installation has an appropriate ground wiring system** and the vibrator (clamps VIBRATOR 5-6/CONN1) of the connector (3-4 ground/CONN1).

According European Norms EMC the apparatus have a line-filter with leakage current to ground less 1 mA

To **adjust** intensity of vibration of the vibratory feeder, turn the adjustment knob (potentiometer 100K) on the box.

**Regolation MIN/MAX:** To adjust the Min./Max voltage of the vibratory feeder, proceed as follows :

**MIN REG.:** Turn the potentiometer to minimum, then set the minimum vibration by means of relative trimmer.

**MAX REG.:** Turn the potentiometer to maximum, then set the maximum vibration by means of relative trimmer.

N.B. : Use a small bladed screw driver in order not to damage the trimmer. Turn it in vertical direction respect to the PC board.

**ON- OFF(CONN3)** : The vibratory feeder can be switched off by contact without voltage, using the auxiliary ON/OFF input

**ON- OFF(CONN2):** by signal voltage 0-12/24Vcc

**Start Ramp:** Is possible to change the time of the start ramp (slow 1 sec or fast 0,1 sec) by jumper Y3

**3000/6000 V/m:-Y1/Y2:** Is possible to change the frequency of vibration 3000V/m-50Hz (3600V/m-60Hz) or 6000V/m-100Hz (7200V/m-120Hz) by jumpers Y1-Y2 (3000/6000) before switch off the voltage.

**OVERLOAD :** is possible to control the current in the Vibrator and to intervene in case of Overload.

Bring the vibrator to the Max Voltage level ( potentiometer at Max level )and turn the Overload Trimmer until the protection comes into action blocking the Voltage on the vibrator ( **Red Led ON** ).Now turn one sector of the **Overload** Trimmer anticlockwise. This activates the vibrator Current Protection . Turn the voltage off and then back to reactivate the circuit.The Overload function can be by-passed by using the jumper Y4.

**Green Led:** Green Led indicates Voltage ON- Fuses intact and signals damages to the entry stage of the stabilizing module.

**Double Speedy:** Is possible (on request) to have nr.2 speed (hight and slow speed ) with 2 potentiometers (see catalogue's sheet DTCV2V)

**NOTE :** Don't use the apparatus in proximity of subject zones to vibrations, or in acid and humid working environment. If vibratory feeder work bad or dont work, to check electric wires, to check regolation MIN/MAX, to swicht off voltage and to check the fuses and, this case, to check current max (ampere) in the vibrator.

## TECHNICAL CHARACTERISTICS:

**TYPE: R3F/S C**

**TENSION OF FEEDING:** 230V/115V +/-15% 50/60Hz

**CONSUMPTION:** 1,5 max

**CURRENT MAX:** 4A RMS

**CONTROL MAX CURRENT:** 0 /4A

**FUSES :** DOUBLE 3.15A F 250V 5x20 - H1500A

**LOAD MIN.:** 50 mA (RMS)

**FREQ. OF VIBRATION :**3000 / 6000 V/m (50Hz)

**FREQ. OF VIBRATION:** 3600 / 7200 V/m (60Hz)

**TIME OF RAMP:** fast ramp 0,1 sec. / slow ramp 1 sec.

**REGOLATION MIN.:** 80V+/- 30% (230V)

**REGOLATION MAX:** 200V - 30% (230V)

**INPUT ON/OFF:** contact without voltage / 0-12/24Vcc

**DEGREE OF POLLUTION:** 2

**POSITION OF ASSEMBLAGE:** horizontal or vertical

**NEMA ENCLOSURE:** NEMA 3 - (MENA 4/4x) Equivalent IEC

**DEGREE OF PROTECTION:** IP55 (IP65) in box (IP00 only circuit)

**TEMPERATURE OF STORAGE:** -15 °C / + 80 °C

**TEMPERATURE OF OPERATION:** -5 °C / + 45 °C

**RANGE OF RELATIVE HUMIDITY:** 80% till to 31°C

**INSTALLATION CLASS:** II

**ALTITUDE:** till to 2000 meters

**EUROPEAN NORMS:** EMC CE

**CONNECTOR VIBRATOR:** 1-2 vibr. 3 n.c. 4 ground

### NORMS OF GUARANTEE

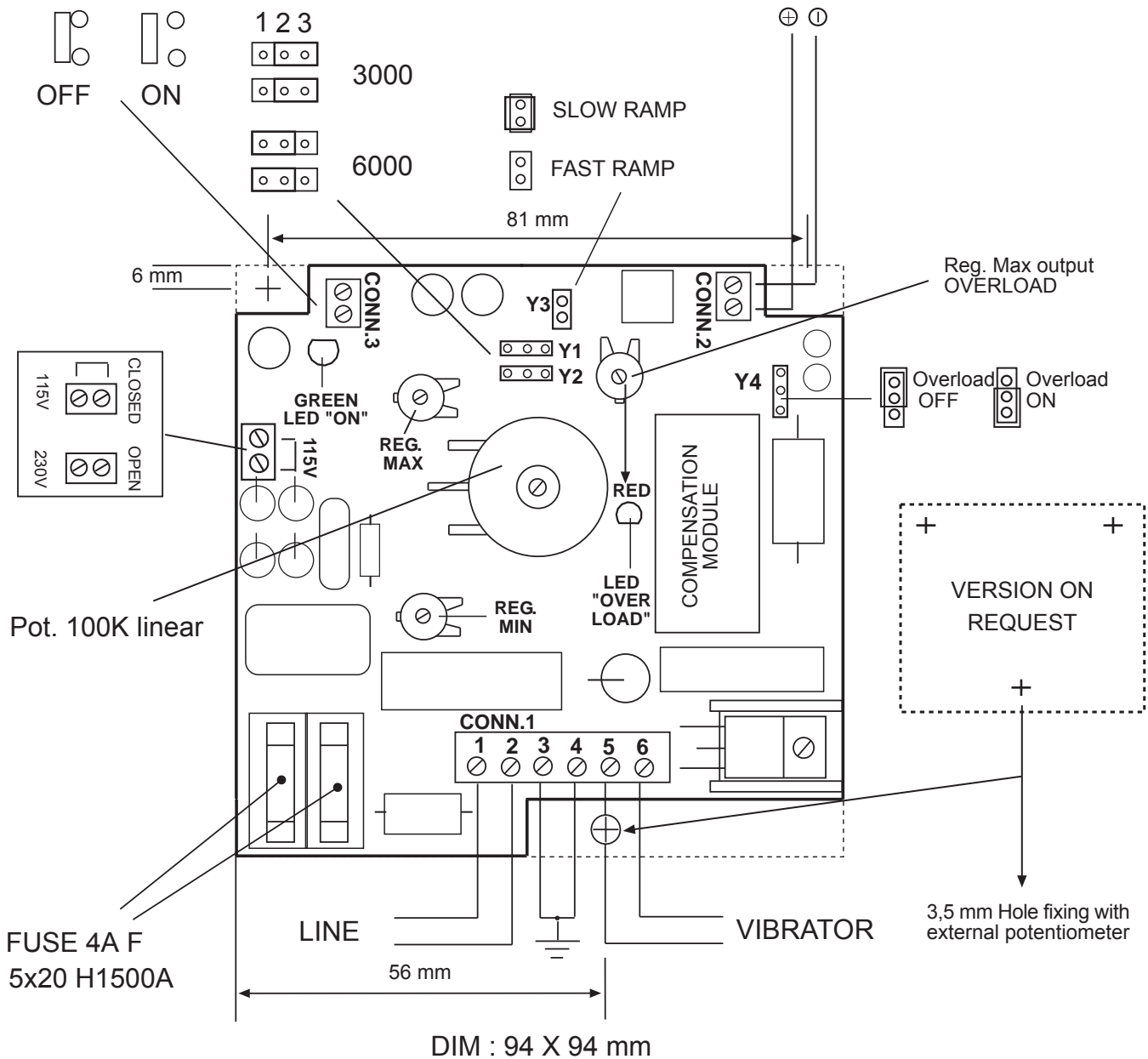
- 1) The apparatus is guaranteed for a period of **1 year** from the date brought again to his inside.
- 2) For guarantee is understood the substitution or free reparation of the components parts the apparatus that they result defective to the origin for vices of manufacture.
- 3) You guarantee doesn't come recognized for provoked damages accidentally for improper use or negligence and in case of modifications or reparation ffects from people you not authorize. **Sketch and characteristics subject techniques to modifications without warning.**

	Code: MUMR3FSC-I	Rev.: 00	Edit : E. Pedrazzi	Date :02/03	Sheet : 1/2
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TO USE CONTACTS  
WITHOUT VOLTAGE.

ON/OFF WITH SIGNAL VOLTAGE

0V = ON  
12 - 24V = OFF



**IMPORTANT :**

If You are used the electronic circuit (IP00) insert it and cable it in a container that could guarantee an excellent safety degree respecting the Normative European in force and isolate the terminals of the potenziometer with the little rubbers in endowment.

Each responsibility from a wrong use of the electronic circuit is declined.

SKETCH AND CHARACTERISTICS TECHNIQUES SUBJECT TO MODIFICATIONS WITHOUT WARNING.

Description: CONTROL CIRCUIT R3FSC STABILIZED				
CODE	REV	DATE	DRAFTSMAN	SHEET
R3FSC	00	02/03	E. PEDRAZZI	1/1

Cod.:MUMR3FSC I	Rev.:00	Edit: E.Pedrazzi	Data:02/03	Foglio:2/2
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