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1. SAFETY RULES

Before installing and using the product:

- Carefully read the whole of this manual.
- Check that the data indicated on the plate is desired information and is appropriate for the installation, and in particular that the nominal voltage of the pump is compatible with that of the installation.
- The installation and maintenance must be carried out solely and exclusively by authorised personnel, responsible for making the electrical connections in accordance with the current safety regulations.
- The pump must not be used by people with reduced physical, sensory or mental capabilities, or without the user experience or knowledge, except if a person responsible for their safety has explained the instructions and supervised their operation of the pump.
- Do not let children play with the pump.
- The manufacturer accepts no liability for damage caused by improper use of the product and shall not be held responsible for damage caused by maintenance or repairs carried out by unqualified staff and/or using non-original replacement parts.
- The use of unauthorised replacement parts, alterations of the product or improper use shall automatically render the product guarantee null and void.

During normal operation:

- Before removing the cover of the speed variator, connect the mains voltage and wait 5 minutes for the electronic circuit board to discharge any residual voltage inside.
- Never disconnect the variator while the motor is rotating. This action can cause irreparable damage to the speed variator and affect the other electronic systems connected to the same electric grid.
- Although the pump is not operational, the electrical supply must still be cut off to the whole speed variator for any maintenance work.
- If there are any anomalies in the installation, the pump can be stopped manually using the button STOP for this purpose.

2. TECHNICAL DATA

Nominal values:

Power supply voltage (V)	220-240 V (1~ - 50/60Hz)
Operating speed (RPM)	700 r.p.m – 2800 r.p.m
Maximum current (A)	11 A
Protection rating	IP 55

Limits of use:

- Minimum ambient temperature: -10°C
- Maximum ambient temperature: +40°C
- Variation in the supply voltage: +/- 10%

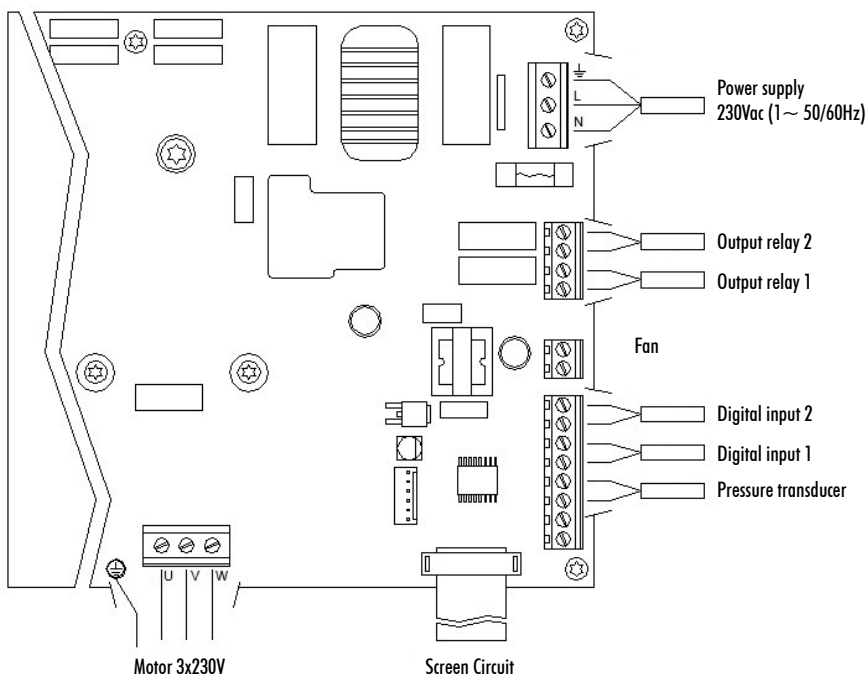
3. INSTALLATION / ASSEMBLY

Before installing the pump, carefully read the whole of this manual and consult the safety rules valid in each country.

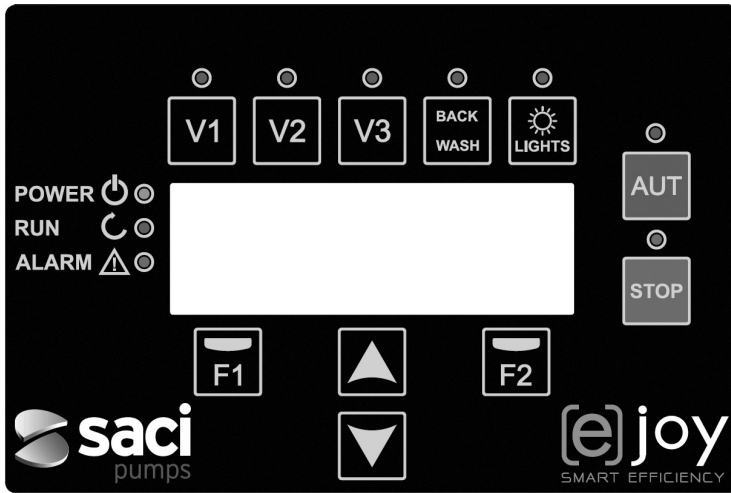
Installation of the pump:

- It must be installed in a well ventilated area, protected from damp and direct exposure to the sun and rain. Failure to comply with these indications can significantly reduce the life of the speed variator.
- Before making the electrical connections, ensure the cable used to provide power to the pump is not live.
- Carefully verify the electrical data indicated in the specifications plate of the speed variator before connecting the electric current.
- The electric power cables to the pump must be of the correct size for the nominal consumption of the motor and the length of cable required.
- Also ensure that the grid has electrical protection; a high-sensitivity differential switch (30 mA, class B for industrial applications) is particularly recommended.
- In addition to the differential switch, it is advisable to install magnetothermal protection to control the power supply to the pump.

4. ELECTRICAL CONNECTIONS



Signal	Description
Outputs relay 1 and 2	Outputs that acts depending on how they have been programmed. These outputs are potential free and have a maximum load of 5 amperes at 230 Vac.
Fan	When wall-mounted, as there is no cooling from the motor's own fan, the ventilation system of the wall mounting shall be used for this cooling. This output is at 24Vdc and is activated whenever the pump is running.
Digital inputs 1 and 2	Any potential free contact that will perform the programmed functions can be connected to these inputs. N.B. Do not apply voltage to these inputs.
Pressure transducer	If it is connected, it will be used by the speed variator to determine the pressure of the installation as well as the pressure during the "BACK WASH" cycle.

5. SCREEN FORMAT


Key	Function
V1	Timed pump activation at speed 1
V2	Timed pump activation at speed 2
V3	Timed pump activation at speed 3
AUT	To activate the normal operation of the pump
STOP	To disable the pump at any time
BACK WASH	To initiate the filter cleaning cycle (back wash)
LIGHTS	Manually activate lighting time
F1	Key to activate the text on the screen
F2	Key to activate the text on the screen
▲▼	Keys for moving around the menu
POWER	Indicates voltage
RUN	Indicates that the pump is operating
ALARM	Indicates that there is an active alarm

6. MAIN SCREEN

This screen will show the current status of the pump:

VARIABLE	SPEED	PUMP
1350 rpm	- - -	Bar
4.8 A	(6.0A)
11:58		Menu

You can directly view the instantaneous rotational speed of the motor, the pressure of the installation (only if the pressure transducer is installed) and the instantaneous consumption of motor. In brackets, just to the side of the instantaneous consumption, you can see the nominal consumption of the motor entered in the start-up wizard (point 8 of this manual).

From this screen, if you click on the keys (▲) or (▼), you can directly access the display menu. This acts a short cut for checking data you need view without having to access the settings menu.

7. OPERATION MODE

The purpose of all pumps designed for swimming pool cleaning is to keep the water clean and in optimum condition. The most notable development is that with the logic of the speed variator, this process is achieved with high energy savings.

The variator enables the operation of a pump in the installation, in addition to being able to control the automatic activation of the pool lights and also help to clean the filter, in addition to other functions.

There is a daily setting of various filtration sequences (up to 4 sequences every day), in which the pump's operating speed can also be indicated.

The default of pump operation mode is automatic. Once time bands and the days of the week on which filtering is required have been indicated, the pump will filter at the speed indicated for each band. It is here where we must take into account that **the slower the operating speed, the greater the energy savings.**

The keyboard includes 3 buttons identified as V1, V2 and V3, which enable timed operation of the pump at the speed set in the corresponding parameter, in case the pump needs to be activated manually.

If there is a pressure transducer installed, the system will monitor the pressure of the installation at all times, to warn if it detects excess soiling in the filter. Once this warning has been received, or at any other time, when the button "BACK WASH" is pressed, a simple wizard will guide you through cleaning the filter. This wizard will tell you to move the filter valves to cleaning mode, then rinse and finally back to filtration.

8. START-UP

The first time you apply voltage to your unit, you will see parameter 1.1 that belongs to menu 1 General Setup, which at the same time is the start-up wizard.

You will also see this screen if you restore the factory settings.

In this menu, enter the basic parameters of the installation prior to programming the time intervals that you wish to have the pump filtering.

1.1	L	A	N	G	U	A	G	E															
									E	n	a	i	s	h									
																				N	e	x	t

Select the desired language with the (▼) key and, with the F2 key (Next), move on to parameter 1.2 to continue with the set-up wizard.

				S	E	T																				
		D	A	T	E	A	N	D	T	I	M	E														
		2	7	/	1	0	/	1	9	-	1	0	:	2	0											
	S	u	n	d	a	y															A	c	c	e	p	t

In this parameter enter the date and time. The speed variator will be governed by this for scheduling the start and stop times. Continue with F2 key to access the screen where you will enter the nominal current of the motor, indicated on its specifications plate.

1.3	N	O	M	I	N	A	L																			
									C	U	R	R	E	N	T											
									5	.	0	A	M	P												
	B	a	c	k																			N	e	x	t

With the keys (▲) and (▼) you can increase and decrease, respectively, the nominal consumption of the pump motor. Use the F2 key to move on to menu 1.4.

			T	U	R	N	I	N	G	O	K	?																
										Y	E	S																
											N	O																
	R	e	p	e	a	t																	A	c	c	e	p	t

This screen shows a sequence of starting and stopping the motor at low speed, to be able to see if the motor is rotating in the correct direction. If it is not, the keys (▲) and (▼) invert the rotation direction.

This is the last screen in the startup wizard.

9. SETUP MENU (SCHEMATIC)

MENU

1. GENERAL CONFIG.	2. FILTRATION	3. FILTER WASH	4. LIGHTS	5. SKIMMING	6. FIXED SPEED	7. INPUTS OUTPUTS	8. ADVANCED CONFIG.	9. MANUAL MODE	10. DISPLAY	11. ALARM HISTORY	12. RESETS
1.1 LANGUAGE	2.1 NUMBER OF BANDS	3.1 WASH SPEED	4.1 PRESENCE OF LIGHTS	5.1 SKIMMING DURATION	6.1 SPEED V1	7.1 DIGITAL INPUT 1	8.1 FREQ. NOMINAL MOTOR		10.1 MODULE TEMPERATURE		12.1 RESET METERS
1.2 SET TIME	2.2 EDIT BAND MONDAY (1)	3.2 WASH DURATION		5.2 SKIMMING INTERVAL	6.2 SPEED V2	7.2 DIGITAL INPUT 2	8.2 UNITS OF PRESSURE		10.2 ANALOGUE SIGNAL		12.2 RESET ALARM HISTORY
1.3 MOTOR CURRENT	2.3	3.3 RINSE DURATION		5.3 SKIMMING FLOW	6.3 SPEED V3	7.3 OUTPUT 1	8.3 FULL-SCALE VALVE TRANSDUCER		10.3 VOLTAGE HOURS		12.3 FACTORY SETTINGS
1.4 ROTATION DIRECTION	2.4	3.4 DIRTY FILTER WARNING PRESSURE				7.4 OUTPUT 2	8.4 MAXIMUM FILTER PRESSURE		10.4 HOURS OF WORK		
	2.5 EDIT BAND MONDAY (2)						8.5 SWITCHING FREQUENCY		10.5 ENERGY METER		
	2.6						8.6 LOW WATER LEVEL ALARM ACTIVE		10.6 DIGITAL INPUT 1		
	2.7						8.7 LOW WATER ALARM LIMIT		10.7 DIGITAL INPUT 2		
	2.8 EDIT BAND MONDAY (3)						8.8 PRIMING TIME		10.8 RELAY 1 OUTPUT		
	2.9								10.9 RELAY 2 OUTPUT		
	2.10								11.0 SOFT. VERSION		
	2.11 EDIT BAND MONDAY (4)								11.1 POWER CONS. PUMP		
	2.12										
	2.13										
	2.14 COPY DAY MONDAY TO TUESDAY										
	⋮										
	2.85 NUMBER OF BANDS SUNDAY										
	2.86 EDIT BAND SUNDAY (1)										
	2.87										
	2.88										
	2.89 EDIT BAND SUNDAY (2)										
	2.90										
	2.91										
	2.92 EDIT BAND SUNDAY (3)										
	2.93										
	2.94										
	2.95 EDIT BAND SUNDAY (4)										
	2.96										
	2.97										

10. SETUP MENU

1. GENERAL CONFIG						
Par.	Description	Units	VALUES			Notes
			Default	Min.	Max.	
1.1	LANGUAGE	1.1	English	--	--	To define the language used to interact with the variator.
1.2	SET TIME					To adjust the date and time of the variator.
1.3	MOTOR CURRENT	A	5	0.1	11	Indicate the consumption in amperes AT 400V found on the motor specifications plate.
1.4	ROTATION DIRECTION		0	0	1	Modify the motor rotation direction, if it is rotating anticlockwise.

2. FILTRATION						
Par.	Description	Units	VALUES			Notes
			Default	Min.	Max.	
2.01	NUMBER OF BANDS MONDAY		0	0	4	The number of times the swimming pool water must be recirculated per day (Monday).
2.02	EDIT BAND MONDAY* (1)		00:00			Sets the start time of band 1.
2.03			24:00			Sets the end time of band 1.
2.04		rpm	1400	700	2800	Sets the rotational speed of band 1.
2.05	EDIT BAND MONDAY (2)		00:00			Sets the start time of band 2.
2.06			24:00			Sets the end time of band 2.
2.07		rpm	1400	700	2800	Sets the rotational speed of band 2.
2.08	EDIT BAND MONDAY (3)		00:00			Sets the start time of band 3.
2.09			24:00			Sets the end time of band 3.
2.10		rpm	1400	700	2800	Sets the rotational speed of band 3.
2.11	EDIT BAND MONDAY (4)		00:00			Sets the start time of band 4.
2.12			24:00			Sets the end time of band 4.
2.13		rpm	1400	700	2800	Sets the rotational speed of band 4.
2.14	COPY DAY MONDAY TO TUESDAY**					Enables you to copy the previous time settings to the next day (Tuesday).

Par.	Description	Units.	VALUES			Notes
			Default	Min.	Max.	
2.86	EDIT BAND SUNDAY (1)		00:00			Sets the start time of band 1.
2.87			24:00			Sets the end time of band 1.
2.88		rpm	1400	700	2800	Sets the rotational speed of band 1.
2.89	EDIT BAND SUNDAY (2)		00:00			Sets the start time of band 2.
2.90			24:00			Sets the end time of band 2.
2.91		rpm	1400	700	2800	Sets the rotational speed of band 2.
2.92	EDIT BAND SUNDAY (3)		00:00			Sets the start time of band 3.
2.93			24:00			Sets the end time of band 3.
2.94		rpm	1400	700	2800	Sets the rotational speed of band 3.
2.95	EDIT BAND SUNDAY (4)		00:00			Sets the start time of band 4.
2.96			24:00			Sets the end time of band 4.
2.97		rpm	1400	700	2800	Sets the rotational speed of band 4.

* There is a complete configuration for every day of the week. This manual only explains how to configure Monday and Sunday, as a summary, but the process is the same for the other days of the week.

** When the day's settings are complete, it allows you to copy this configuration directly to the following day, saving time when setting every day individually.

3. LAVADO DE FILTRO

Par.	Description	Units.	VALUES			Notes
			Default	Min.	Max.	
3.01	WASH SPEED	rpm	2800	700	2800	Sets the speed of the pump for the filter cleaning process.
3.02	WASH DURATION	min	5	1	60	Pump operating time during the filter wash process.
3.03	RINSE DURATION	min	1	0	60	Once the filter is clean, the operating time of the pump for rinse the remaining dirty water from the filter.
3.04	DIRTY FILTER WARNING PRESSURE	bar	1,5	1	2.5	Pressure from which a warning will appear on the screen requiring the filter to be cleaned (for this function it is necessary to install a pressure transducer).

4. LIGHTS

Par.	Description	Units.	VALUES			Notes
			Default	Min.	Max.	
4.01	PRESENCE OF LIGHTS		NO	NO	YES	The daily lighting cycle of the pool is programmed if it is indicated that there are lights.
4.02	LIGHTS ON, MONDAY*		OFF	OFF	ON	Enable/disable pool lighting on Mondays.
4.03	LIGHTS START, MONDAY*		00:00			Indicate the start time of the lighting cycle.
4.04	LIGHTS END, MONDAY*		00:00			Indicate the end time of the lighting cycle.
4.23	RGB TEST					Enables the colour sequence to be changed if there are RGB LEDs in the pool.

* There is a complete configuration for every day of the week. This manual only explains how to configure Monday, but the process is the same for the other days of the week.

5. SKIMMING

Par.	Description	Units.	VALUES			Notes
			Default	Min.	Max.	
5.01	SKIMMING DURATION	min	2	0	5	To program the duration of the surface cleaning program (SKIMMING) of the pool. If 0 minutes is indicated, SKIMMING is disabled.
5.02	SKIMMING INTERVAL	h	3	1	24	Indicate how often the SKIMMING program is to be started.
5.03	SKIMMING FLOW	rpm	2800	700	2800	Tell the pump what speed is required for the SKIMMING program.

6. FIXED SPEED

Par.	Description	Units.	VALUES			Notes
			Default	Min.	Max.	
6.01	SPEED V1	rpm	950	700	2800	Set the speed at which the pump is to run at speed V1.
6.02	SPEED V2	rpm	1400	700	2800	Set the speed at which the pump is to run at speed V2.
6.03	SPEED V3	rpm	2800	700	2800	Set the speed at which the pump is to run at speed V3.

7. INPUTS OUTPUTS

Par.	Description	Units.	VALUES			Notes
			Default	Min.	Max.	
7.01	DIGITAL INPUT 1		Unused	Unused External stop External stop INV Fixed speed Fixed speed INV		An input can be used to perform a remote stop (the INV option is for a contact that opens to switch on) or for the pump to operate at a certain speed when the input 1 is activated or deactivated (INV option).
7.02	SPEED IN 1	rpm	1400	700	2800	If digital input 1 is enabled for fixed speed, indicate the speed at which it is to operate when this input is given.
7.03	DIGITAL INPUT 2	Same as parameter 7.01 but for input 2.				
7.04	SPEED IN 2	Same as parameter 7.02 but for input 2.				
7.05	OUTPUT 1		OFF	OFF Salt chlorinator Wash Alarm (NO) Alarm (NA) Run Clock (NO) Clock (NA)		Relay 1 can be programmed to be activated (or deactivated for NC-terminated options) whenever the pump is started, when the pump is filtering (saline chlorinator), when an alarm occurs or when a certain programming cycle is running.
7.06	SCHEDULE PROGRAMME 1		OFF	OFF M-Su M-F S-Su M, T,X,T,F,S,Su		This parameter is visible only if one of the 2 clock options is selected in the previous parameter. It enables the days or the block of days to be programmed, such as M-Su that refers to Monday through Sunday, in which the relay is to be activated.
7.07	START TIME PROGRAMME 1		00:00			Indicate start time for programme 1.
7.08	STOP TIME PROGRAMME 1		00:00			Indicate start time for programme 2.
7.09	OUTPUT 2	Same as parameter 7.05 for output 2.				

Par.	Description	Units.	VALUES			Notes
			Default	Min.	Max.	
7.10	SCHEDULE PROGRAMME 2		OFF	OFF M-Su M-F S-Su M, T,X,T,F,S,Su		This parameter is visible only if one of the 2 clock options is selected in the previous parameter. It enables the days or the block of days to be programmed, such as M-Su that refers to Monday through Sunday, in which the relay is to be activated.
7.11	START TIME PROGRAMME 2		Same as parameter 7.07 for program 2.			
7.12	STOP TIME PROGRAMME 2		Same as parameter 7.08 for program 2.			

8. PARÁMETROS AVANZADOS

Par.	Description	Units.	VALUES			Notes
			Default	Min.	Max.	
8.01	NOMINAL FREQUENCY MOTOR	Hz	2800	1400	3400	Modifies the maximum speed of pump operation.
8.02	UNITS OF PRESSURE		Bar	Bar	PSI	You can modify the units to represent the pressure of the installation.
8.03	FULL-SCALE VALUE TRANSDUCER	Bar	10	5	58	Enables you to adjust the range of detection of the transducer if its scale is not the standard 4-20 mA (0-10 Bar).
8.04	MAXIMUM FILTER PRESSURE	Bar	2.5	2	5	In this point, indicate the maximum pressure that the filter supports, so that in normal operation the inverter takes it into account and acts accordingly so that this pressure is never exceeded.
8.05	SWITCHING FREQUENCY	KHz	7.7	2,5	16	Enables you to modify the switching frequency of the variator, reducing the noise, although uncommon, of the switching at the expense of an increase in temperature of the electronics. N.B. We do not recommend modifying the default value except when expressly indicated by the Technical Department.
8.06	LOW WATER LEVEL ALARM ACTIVE		ON	ON	OFF	Enables the constant monitoring of the pump running dry, if this occurs.
8.07	LOW WATER ALARM LIMIT	%	75	50	90	Value used in the mathematical algorithm that calculates the pump running dry.
8.08	PRIMING TIME	min	2	1	10	During the priming time, the detection of running dry will not be operative even though the monitoring is enabled.

9. MANUAL MODE

S	.	M	A	N	U	A	L			(0	s)			
			0	r	p	m	-	-	-	B	a	R				
			0	.	0	A				(5	.	0	A)	
S	a	i	r												O	N

The objective of this screen is to test the pump operation, at a specific speed, for a controlled time, to correctly select the operating speeds of the cycles in section 2 of the settings menu.

Press F2 to activate the pump initially for 2 minutes at the maximum frequency of the pump. Each time you press the F2 key increases the operating time on a scale of 2 minutes, 15 minutes, 30 minutes, 1 hour, 2 hours, 4 hours or 8 hours. At any time, by pressing the F1 key, you can stop the pump operation.

Every time you press the keys (▲) or (▼) you increase or decrease, respectively, the operating speed of the pump by 10 rpm.

10. DISPLAY

Par.	Description	Units.	VALUES			Notes
			Default	Min.	Max.	
10.01	MODULE TEMPERATURE	°C				Shows the current temperature of the power module. If the temperature is very high, the speed variator itself will limit the speed of the pump to prevent the electronics of the speed variator being damaged.
10.02	ANALOGUE SIGNAL	mA		4	20	Shows the value of the pressure transducer reading in mA.
10.03	VOLTAGE HOURS	Hours				Indicates the hours the pump has been connected to the electricity grid regardless of whether it has been running or not.
10.04	HOURS OF WORK	Hours				Indicates the hours of pump operation.
10.05	ENERGY METER	kWh				Indicates the pump consumption in kWh.
10.06	DIGITAL INPUT 1		0	0	1	Indicates whether input 1 is enabled or not; if it is enabled, the reason for this.
10.07	DIGITAL INPUT 2		0	0	1	Indicates whether input 2 is enabled or not; if it is enabled, the reason for this.
10.08	RELAY 1 OUTPUT		0	0	1	Indicates whether relay 1 is enabled or not; if it is enabled, the reason for this.
10.09	RELAY 2 OUTPUT		0	0	1	Indicates whether relay 2 is enabled or not; if it is enabled, the reason for this.
11.00	SOFTWARE VERSION					Indicates the version of the software of the control panel (screen) and the power panel (aluminium radiator).
11.01	POWER CONSUMED BY PUMP	W				Indicates the instantaneous power consumed by the pump.

11. ALARM LOG

Shows a log of anomalies of the pump where the speed variator is connected, indicating the date, the time and the anomaly that occurred. This information is very important for detecting possible anomalies in the functioning of the installation.

12. RESETS

Par.	Description	Units.	VALUES			Notes
			Default	Min.	Max.	
12.01	RESET METERS		NO	NO	YES	Enter YES to delete the voltage hours and the energy meter.
12.02	RESET ALARM HISTORY		NO	NO	YES	Enter YES to reset all the faults stored in the alarm history.
12.03	FACTORY SETTINGS		NO	NO	YES	This parameter will remove all the settings entered in the configuration of the variator, returning it to its initial status, as it was when installed for the first time.

11. ALARMS

Message	Reasons	Solution(s)
PRESSURE WARNING: FILTER CLEANING	Indicates that the pressure entered in the parameter (DIRTY FILTER WARNING PRESSURE) has been exceeded.	Press the button BACK WASH and perform the steps indicated by the filter cleaning wizard, as the system detects a high pressure in the filter, probably due to excess soiling.
ALARM F01 OVERCURRENT	Indicates excessive consumption in the motor.	Check that the pump rotates freely with no obstructions.
ALARM F02 SHORT CIRCUIT	The motor is communicated or has burnt out. Not all wires have been connected. Internal fault in the variator.	Disconnect the motor from the variator and check that the message disappears. If this is not the case, contact your nearest technical service. Check that all the cables of the motor are correctly connected to the motor itself and also to the variator. Also supervise the correct wiring of the frequency converter's power supply. Contact your nearest technical service.
ALARM F03 EXCESS TEMPERATURE OF THE MODULE	The power module has reached a very high temperature, compromising its reliability.	Ensure the ambient temperature does not exceed the extremes set out in this manual. Ensure the variator is properly ventilated; in this case check that the pump has a fan and that the fan cover has been installed.
ALARM F04 INPUT VOLTAGE	The variator is not receiving electric current, of is outside of the upper and lower limits.	The electrical supply to the variator has been interrupted. The electrical connection cable from the mains electricity to the variator has been disconnected.

Message	Reasons	Solution(s)
ALARM F06 MOTOR FAULT	The motor is communicated/disconnected. Loss of synchronism.	Check that the cables to the motor are properly connected, as the variator is not detecting the motor, or it is burnt out. There may also be a loss of synchronism of the motor during operation due to a significant, quick change in the pumping conditions.
ALARM F07 LOW WATER LEVEL	The variator detects that the pump is working without water in the body of the pump.	Ensure the pump aspirates the fluid correctly.
ALARM F08 MAXIMUM PRESSURE LIMIT	The variator detects that the filter is very soiled or at a pressure close to bursting.	Check the filter does not need cleaning and that the impulsion valves allow recirculation.
ALARM X13 INTERNAL ERROR	There is no communication between the control panel (cover), and the power plate (radiator). Internal fault in the variator.	Check that the flat cable that communicates both electronic circuits are well connected and tightened. There may be one-off read error of the firmware. We recommend cutting the power to the variator for a few minutes. If, when the power is reconnected to the variator, the message remains, contact your nearest technical service.

12. WARRANTY

The guarantee on the speed variator is 24 months from the date of purchase: The use of non-original spare parts, alterations or improper use shall render the product warranty void.

13. DISPOSAL AND ENVIRONMENTAL ASPECTS

To dispose of the parts that comprise the speed variator, you must abide by the current regulations and laws of the country where the product is used. In any case, do not dispose of polluting parts into the environment.



This symbol on the product indicates that it should not be disposed of with other household waste.

This stipulation only refers to the disposal of equipment within the European Union (2012/19 /EU). It is the user's responsibility to dispose of the equipment by delivering it to a designated collection point for the recycling and disposal of electrical equipment. For more information about equipment collection points, contact your local waste disposal agency.