

SOFT START PLUS 3 RANGE 3÷60HP

Soft start starting electronic control panel 3 motors for pressure booster, clean water and sewage with display

- Multi application control panel
- Motor's data auto learning
- Adjustable acceleration and deceleration ramp
- Events and alarms data logger
- Motors maintenance data logger
- Remote control
- Motherboard protection



GENERAL SPECIFICATIONS

- Operating voltage 400Vac $\pm 10\%$ 50/60Hz
- General disconnecting switch with door lock
- Button for automatic operation
- Button for manual operation (stable/unstable)
- Siren shut-off button
- Auxiliary circuit protection fuse
- Protection fuse for each motor
- N°3 soft start with by-pass contacts
- Forced ventilation with filters (from 25Hp)
- Thermostat for fan
- Connection terminal board
- External metal box
- Protection degree IP55
- Operating temperature $-5/+40^{\circ}\text{C}$

ADVANTAGES

- Multilingual Display LCD to visualize:
 - Operating voltage
 - Current for each motor
 - Hour counter for each motor
 - Pressure switches status
 - Level status
 - System pressure with pressure transducer
 - Tank level in meters with piezoresistive probe
 - All information concerning the operation of the motors
- Maximum and minimum current auto learning for each motor
- Dry running with level control and minimum current
- Deactivable alternance of the 3 motors
- 3s delay between the starting of the 3 motors
- Automatic switching in case of motor failure
- Loss of pressure control
- Adjustable supply mains waiting
- Siren shut-off
- Adjustable acceleration and deceleration ramp by trimmer
- Adjustable starting voltage by trimmer
- Operation with pressure switches, float switches, probes, pressure transducer and piezoresistive probe 4-20mA

INPUTS / OUTPUTS

- N°5 very low voltage inputs
- Input 4-20mA
- N°2 very low voltage inputs for motor klixon
- N°2 alarm outputs 12Vdc max 200mA for siren and flashing Led lamp
- Alarm output max 5A NC-COM-NO (pure contact)

PROTECTIONS

- Maximum and minimum current protection for each motor with alarm
- Lack and sequence of phases protection with automatic reset and alarm
- Minimum and maximum voltage protection with automatic reset and alarm
- Klixon protection for each motor with automatic reset and alarm

THREE-PHASE 400Vac ±10% 50/60Hz

CODE	TYPE	POWER		OPERATING CURRENT [A]	DIMENSIONS mm			WEIGHT Kg	BOX
		kW	Hp		A-H	L-W	P-D		
SQ696.00/SS	SOFT START PLUS 3 400 5,5	2,2÷4	3÷5,5	3x(5÷12,5)	800	600	290	25	80
SQ696.01/SS	SOFT START PLUS 3 400 12,5	5,5÷9,2	7,5÷12,5	3x(10÷25)	800	600	290	25	80
SQ696.02/SS	SOFT START PLUS 3 400 17,5	11÷13	15÷17,5	3x(17÷32)	800	600	290	25	80
SQ696.03/SS	SOFT START PLUS 3 400 20	15	20	3x(23÷38)	800	600	290	25	80
SQ696.04/SS	SOFT START PLUS 3 400 25	18,5	25	3x(22,5÷45)	800	600	290	34	80
SQ696.05/SS	SOFT START PLUS 3 400 35	22÷26	30÷35	3x(25,5÷63)	800	600	290	34	80
SQ696.06/SS	SOFT START PLUS 3 400 40	30	40	3x(34,5÷72)	800	600	290	35	80
SQ696.07/SS	SOFT START PLUS 3 400 50	37	50	3x(46÷106)	1000	600	370	38	101
SQ696.08/SS	SOFT START PLUS 3 400 60	45	60	3x(46÷106)	1000	600	370	45	101

N.B.: When ordering, check the power and the rated current of the motor

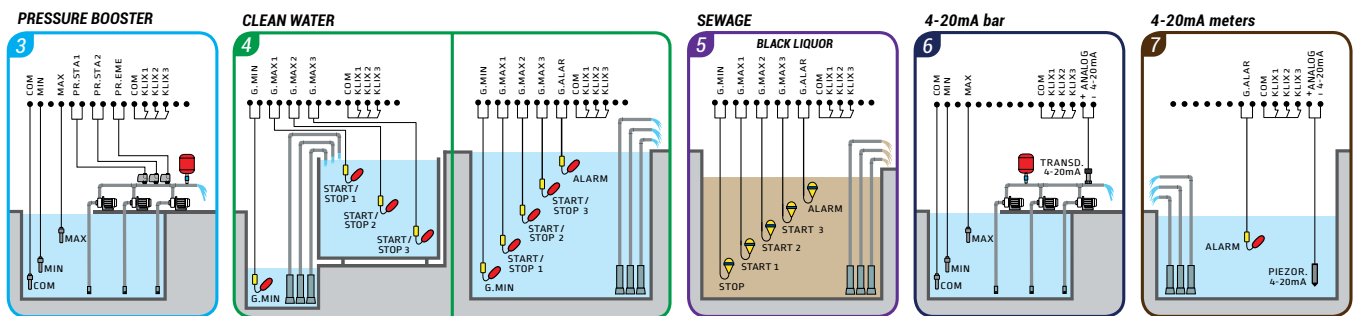
OPTIONALS

CODE	TYPE
OP100.29/B	On board GPRS expansion
OP100.49/B	On board MODBUS RS-485 expansion
OP100.59/B	On board Ethernet - WiFi expansion
OP100.69/B	On board BMS expansion up to 3 motors
OP100.99/B	On board expansion to detect water in the oil chamber up to 3 motors
OP100.01	3 level probes kit
OP100.05/1	Wired three-phase surge arrester type 2
SS100.00	Visual and acoustic alarm indicator (BASIC ALARM VA 012) see page 20
SS101.01	Visual and acoustic alarm indicator with buffer battery (TOP ALARM VAB 230) see page 19
AC300.11.10-004.20	Pressure transducer 0-10bar 4-20mA with 4m cable
AC300.11.16-004.20	Pressure transducer 0-16bar 4-20mA with 4m cable
AC300.11.25-004.20	Pressure transducer 0-25bar 4-20mA with 4m cable
AC300.20.01-005.31	Piezoresistive probe 4-20mA with 5m cable
AC300.20.01-010.31	Piezoresistive probe 4-20mA with 10m cable
AC300.20.02-010.20	Piezoresistive probe 4-20mA with 10m cable for sewage

For more optionals see page 78

SPARE PARTS

CODE	TYPE
AC100.22/1/50	Display electronic board with flat cable 20pin 50cm
AC100.22/1/80	Display electronic board with flat cable 20pin 80cm
AC100.22/1/100	Display electronic board with flat cable 20pin 100cm
SD696.20	Three-phase MULTIPLUS 3 electronic board 20A
SD696.30-40	Three-phase MULTIPLUS 3 electronic board 30-40A
SD696.60	Three-phase MULTIPLUS 3 electronic board 60A
SD696.100	Three-phase MULTIPLUS 3 electronic board 100A
SD696.200	Three-phase MULTIPLUS 3 electronic board 200A



COMPONENTS KEY

- Float switch for clean water
- Float switch for sewage
- Pressure switch
- Level probes
- Piezoresistive probe 4-20mA
- Pressure transducer 4-20mA

The addition of some optionals can imply changes on the size of the control panel. For further details please contact our technical/commercial department.