STAR DELTA PLUS 3 RANGE 7,5÷60HP

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

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



SALUPO CONNECT

GENERAL SPECIFICATIONS

- Operating voltage 400Vac ±10% 50/60Hz
- General disconnecting switch with door lock
- Button for automatic operation
- Button for manual operation (stable/unstable)
- Siren shut-off button
- N°3 adjustable star delta timers
- Auxiliary circuit protection fuse
- Protection fuse for each motor
- N°9 contactors
- Connection terminal board
- External metal box
- Protection degree IP55
- Operating temperature -5/+40°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
- Pressure loss monitoring
- Adjustable supply mains waiting
- Siren shut-off
- 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°3 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 kW	POWER Hp	NOMINAL CURRENT [A]	DIMENSIONS mm A-H	DIMENSIONS mm L-W	DIMENSIONS mm P-D	WEIGHT Kg	BOX
SQ696.C00/SD	STAR DELTA PLUS 3 C 400 7,5	5,5	7,5	3x(14)	800	600	290	33	80
SQ696.C01/SD	STAR DELTA PLUS 3 C 400 10	7,5	10	3x(18)	800	600	290	33	80
SQ696.C02/SD	STAR DELTA PLUS 3 C 400 12,5	9,2	12,5	3x(22)	800	600	290	33	80
SQ696.C03/SD	STAR DELTA PLUS 3 C 400 15	11	15	3x(27)	800	600	290	33	80
SQ696.C04/SD	STAR DELTA PLUS 3 C 400 17,5	13	17,5	3x(31)	800	600	290	33	80
SQ696.C05/SD	STAR DELTA PLUS 3 C 400 20	15	20	3x(35)	800	600	290	34	80
SQ696.C06/SD	STAR DELTA PLUS 3 C 400 25	18,5	25	3x(44)	800	600	290	35	80
SQ696.C07/SD	STAR DELTA PLUS 3 C 400 35	22÷26	30÷35	3x(60)	1000	800	370	40	103
SQ696.C08/SD	STAR DELTA PLUS 3 C 400 40	30	40	3x(69)	1000	800	370	41	103
SQ696.C09/SD	STAR DELTA PLUS 3 C 400 50	37	50	3x(85)	1000	800	370	64	103
SQ696.C10/SD	STAR DELTA PLUS 3 C 400 60	45	60	3x(100)	1000	800	370	66	103

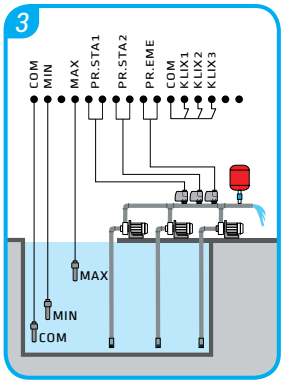
OPTIONALS

CODE	TYPE
OP100.79/B	On board 4G 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**
AC300.15.xx-004.35	Pressure transducer 0-(xx)bar 4-20mA 1/4" with 4m shielded cable 2 cables+Ground wire **see page 68**
AC300.20.01-xx.31	Piezoresistive probe 4-20mA with (xx)m cable **see page 68**
AC300.22.01-xx.35	Piezoresistive probe 4-20mA with (xx)m shielded cable 2 cables+Ground wire **see page 68**
AC300.20.02-010.31	Piezoresistive probe 4-20mA with 10m cable for sewage

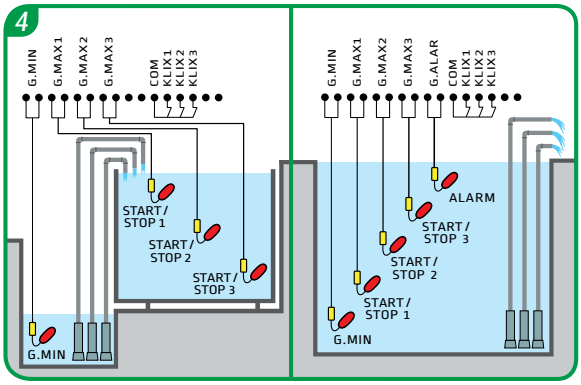
SPARE PARTS

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

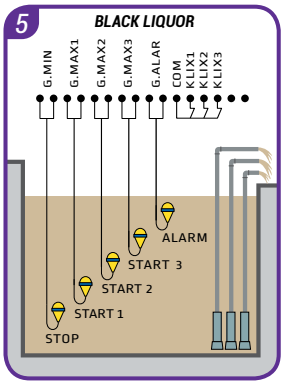
PRESSURE BOOSTER



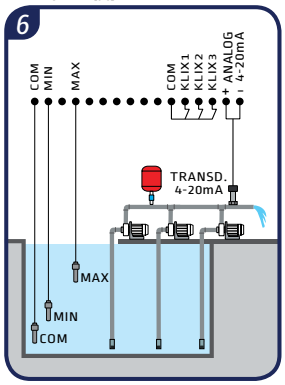
CLEAN WATER



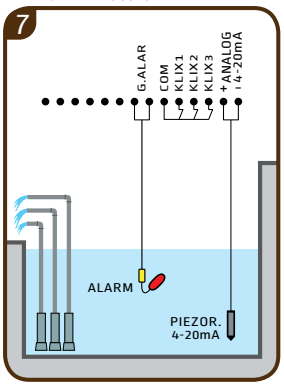
SEWAGE



4-20mA bar



4-20mA meters



KEY COMPONENTS

- ***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.