IMPEDANCE PLUS 1 C

RANGE 3÷200HP

Stator impedance starting electronic control panel 1 motor for the dry running control, clean water and sewage with display

- *Multi-application control panel*
- *Motor's data auto learning*
- *Adaptive filling system of the well*
- *Events and alarms data logger*
- *Motor maintenance data logger*
- *Remote control*



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
- Adjustable star delta timer
- Auxiliary circuit protection fuse
- Motor protection fuse
- N°2 contactors
- N°3 5A amperometric transformers
- Three-phase impedance with thermostat
- Connection terminal board
- External metal box
- Protection degree IP55
- Operating temperature -5/+40°C

ADVANTAGES

- Multilingual Display LCD to visualize:
  - Operating voltage
  - Three-phase current
  - Cosφ
  - Hour counter
  - Level status
  - System pressure with pressure transducer
  - Tank level in meters with piezoresistive probe (emptying/filling)
  - All information concerning the operation of the motor
- Motor's data autolearning:
  - Cosφ
  - Maximum and minimum current
- Adaptive filling system of the well
- Adjustable maximum number of starts per hour
- Adjustable motor start test (24-48-72-96h)
- Dry running with cosφ and minimum current
- Pressure loss monitoring with adjustable reset
- Adjustable supply mains waiting
- Siren shut-off
- Operation with pressure switches, float switches, pressure transducer and piezoresistive probe 4-20mA

INPUTS / OUTPUTS

- N°3 very low voltage inputs
- Input 4-20mA
- Very low voltage input 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 with alarm
- Lack and sequence of phases protection with automatic reset and alarm
- Minimum and maximum voltage protection with automatic reset and alarm
- Phase unbalance protection with alarm
- Motor klixon protection with automatic reset and alarm

THREE-PHASE 400Vac ±10% 50/60Hz

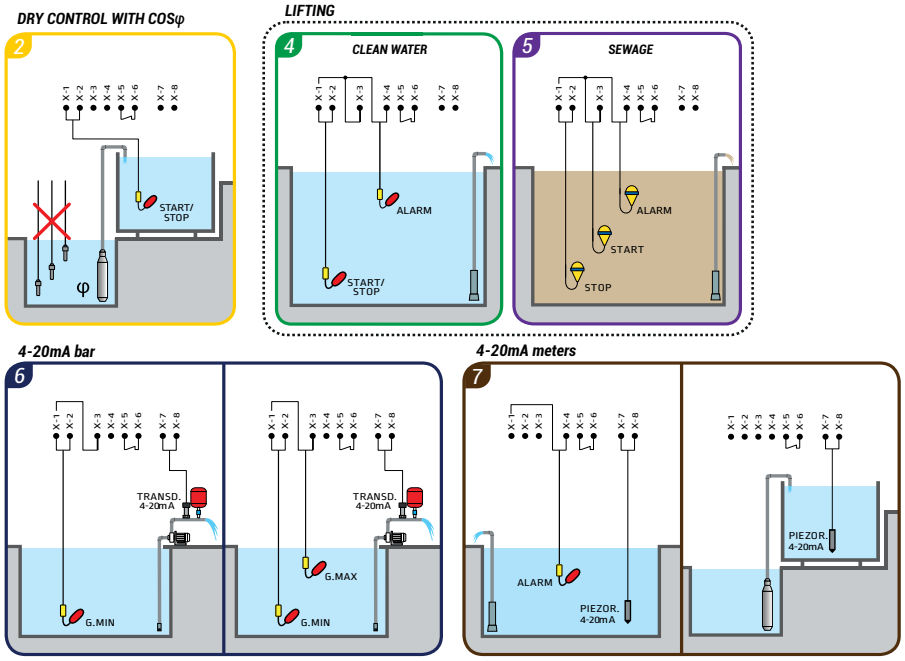
CODE	TYPE	POWER kW	POWER Hp	OPERATING CURRENT [A]	DIMENSIONS mm A-H	DIMENSIONS mm L-W	DIMENSIONS mm P-D	WEIGHT Kg	BOX
SQ687.C00/I	IMPEDANCE PLUS 1 C 400 3	2,2	3	4÷9	500	400	230	18	50
SQ687.C01/I	IMPEDANCE PLUS 1 C 400 5,5	4	5,5	8÷12,5	500	400	230	18	50
SQ687.C02/I	IMPEDANCE PLUS 1 C 400 7,5	5,5	7,5	10÷17	500	400	230	18	50
SQ687.C03/I	IMPEDANCE PLUS 1 C 400 10	7,5	10	13÷21	500	400	230	21	50
SQ687.C04/I	IMPEDANCE PLUS 1 C 400 12,5	9,2	12,5	19÷26	500	400	230	21	50
SQ687.C05/I	IMPEDANCE PLUS 1 C 400 15	11	15	22÷30	500	400	230	23	50
SQ687.C06/I	IMPEDANCE PLUS 1 C 400 17,5	13	17,5	25÷33	500	400	230	24	50
SQ687.C07/I	IMPEDANCE PLUS 1 C 400 20	15	20	30÷38	600	400	230	25	60
SQ687.C08/I	IMPEDANCE PLUS 1 C 400 25	18,5	25	38÷50	700	500	240	32	70
SQ687.C09/I	IMPEDANCE PLUS 1 C 400 30	22	30	45÷58	700	500	240	34	70
SQ687.C10/I	IMPEDANCE PLUS 1 C 400 35	26	35	50÷65	700	500	240	34	70
SQ687.C11/I	IMPEDANCE PLUS 1 C 400 40	30	40	60÷75	700	500	240	38	70
SQ687.C12/I	IMPEDANCE PLUS 1 C 400 50	37	50	65÷90	800	600	290	49	80
SQ687.C13/I	IMPEDANCE PLUS 1 C 400 60	45	60	70÷105	1000	600	370	83	101
SQ687.C14/I	IMPEDANCE PLUS 1 C 400 70	51,5	70	75÷110	1000	600	370	89	101
SQ687.C15/I	IMPEDANCE PLUS 1 C 400 75	55	75	75÷110	1000	600	370	89	101
SQ687.C16/I	IMPEDANCE PLUS 1 C 400 80	60	80	80÷150	1000	600	370	91	101
SQ687.C17/I	IMPEDANCE PLUS 1 C 400 90	66	90	80÷150	1000	600	370	101	101
SQ687.C18/I	IMPEDANCE PLUS 1 C 400 100	75	100	90÷180	1000	600	370	101	101
SQ687.C19/I	IMPEDANCE PLUS 1 C 400 125	92	125	130÷200	1200	800	370	120	122
SQ687.C20/I	IMPEDANCE PLUS 1 C 400 150	110	150	150÷240	1800	800	470	195	185
SQ687.C21/I	IMPEDANCE PLUS 1 C 400 180	132	180	180÷280	1800	800	470	205	185
SQ687.C22/I	IMPEDANCE PLUS 1 C 400 200	150	200	210÷350	1800	800	470	210	185

OPTIONALS

CODE	TYPE
OP100.79/C	Controller GPRS expansion
OP100.49/C	Controller MODBUS - RS-485 expansion
OP100.59/C	Controller Ethernet - WiFi expansion
OP100.69/C	Controller BMS expansion
OP100.99/C	Controller expansion to detect water in the oil chamber up to 3 motors
OP331.400	Wired LEVEL 400Vac control relay
OP100.01	3 level probes kit
OP100.17/024	Wired interface 24Vac relay complete with socket
OP100.17/024/CE	Wired interface 24Vac relay (external command)
OP100.05/1	Wired three-phase surge arrester type 2
SS100.00	Visual and acoustic alarm indicator (BASIC ALARM VA 012) **see page 13**
SS101.01	Visual and acoustic alarm indicator with buffer battery (TOP ALARM VAB 230) **see page 12**
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
SR687-97.C400	Controller MULTIPLUS 1-2 400Vac



KEY COMPONENTS

- ***Float switch for clean water***
- ***Float switch for sewage***
- ***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.