

MULTIPLUS 1

RANGE 0,5÷20HP

Electronic control panels



Direct 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
- EVENTS AND ALARMS DATA LOGGER
- REMOTE CONTROL



Applications

2 4 5 6 7



ADVANTAGES

- Multilingual Display LCD to visualize:
 - Operating voltage
 - Current
 - Cosφ
 - Hour counter
 - Level status
 - System pressure with pressure transducer
 - Tank level in meters with piezoresistive probe
 - All information concerning the operation of the motor
- Adjustable supply mains waiting
- Level control Emptying/Filling
- Operation with pressure switches, float switches, probes, pressure transducer and piezoresistive probe 4-20mA
- Dry running with 3 or 2 timed probes level control, cosφ and minimum current
- Loss of pressure control
- Siren shut-off

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
- Motor klixon protection with automatic reset and alarm

SINGLE-PHASE 230Vac +15/-20% 50/60Hz

CODE	TYPE	POWER		OPERATING CURRENT [A]	DIMENSIONS mm			WEIGHT Kg	BOX
		kW	Hp		A-H	L-W	P-D		
SA684.00	MULTIPLUS 1 230	0,37÷2,2	0,5÷3	2÷18	285	245	140	2,3	03

THREE-PHASE 400Vac +15/-20% 50/60Hz

CODE	TYPE	POWER		OPERATING CURRENT [A]	DIMENSIONS mm			WEIGHT Kg	BOX
		kW	Hp		A-H	L-W	P-D		
SA687.02L	MULTIPLUS 1 400 10	0,37÷7,5	0,5÷10	0,5÷16	285	245	140	2,8	03
SA687.03L	MULTIPLUS 1 400 15	2,2÷11	3÷15	4÷25	345	285	165	3,4	04
SA687.04L	MULTIPLUS 1 400 20	7,5÷15	10÷20	16÷32	345	285	165	3,5	04

OPTIONALS

CODE	TYPE
OP100.29/B	On board GPRS expansion
OP100.39/B	On board Ethernet expansion
OP100.59/B	* On board Ethernet - WiFi - RS-485 expansion
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	Wired single-phase surge arrester type 2
OP100.05/1	Wired three-phase surge arrester type 2
OP100.13/1/12	Wired siren 12Vdc
OP100.13/2/12L	Wired flashing Led lamp 12Vdc
SS100.00	Visual and acoustic alarm indicator (BASIC ALARM VA 012) see page 20
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
AC300.20.01-005.00	Piezoresistive probe 4-20mA with 5m cable
AC300.20.01-010.00	Piezoresistive probe 4-20mA with 10m cable
AC300.20.02-010.20	Piezoresistive probe 4-20mA with 10m cable for sewage
OP00.10	Couple of brackets for collar (reference BOX 03-04)
OP03.30/40.00	Metal box 400x300x150mm with wall brackets (reference BOX 03)
OP04.30/40.00	Metal box 400x300x150mm with wall brackets (reference BOX 04)

For more optional see page 80

SPARE PARTS

CODE	TYPE
AC100.22/1/30	Display electronic board with flat cable 20pin 30cm
SD684.20/1	Single-phase MULTIPLUS 1 electronic board
SD687.20/1	Three-phase MULTIPLUS 1 electronic board 20A
SD687.30-40/1	Three-phase MULTIPLUS 1 electronic board 30-40A

GENERAL SPECIFICATIONS

- Operating voltage 230Vac +15/-20% 50/60Hz (SA684.xx)
- Operating voltage 400Vac +15/-20% 50/60Hz (SA687.xx)
- General disconnecting switch with door lock
- Button for automatic operation
- Button for manual operation (stable/unstable)
- Siren shut-off button
- Auxiliary circuit protection fuse
- Motor protection fuse
- Contactor (SA687.xx)
- External thermoplastic box
- Cable glands
- Protection degree IP65
- Operating temperature -5/+50°C
- Relative humidity 60% at 50°C (not condensed)

INPUTS / OUTPUTS

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

* Available from September 2020

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