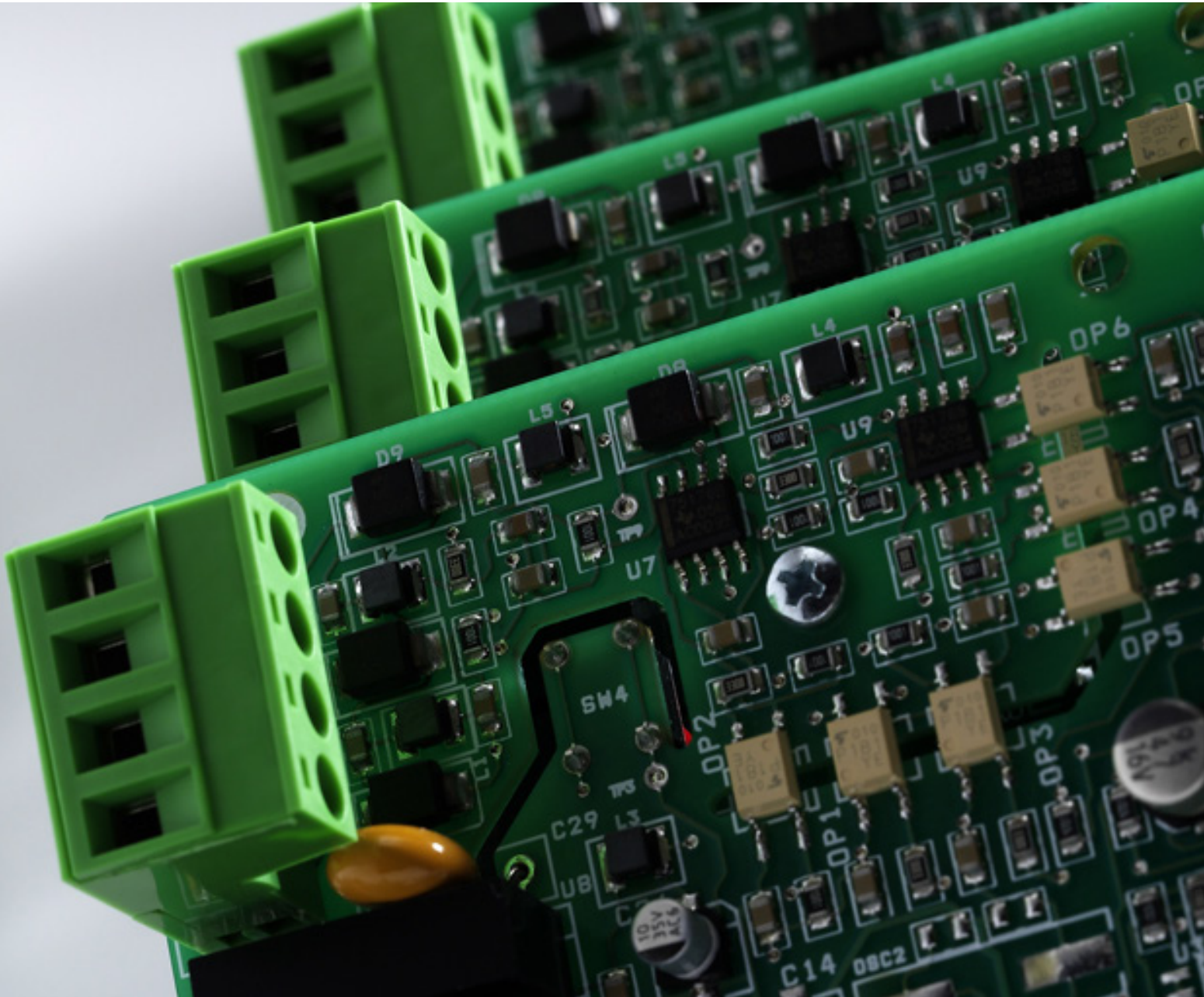


E.S.P.

C-BOX

50 Hz - 60 Hz



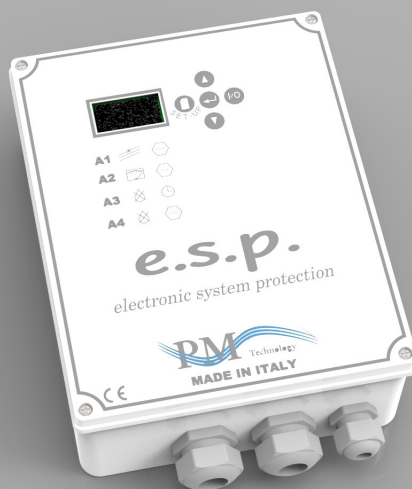
CONTROL PANELS



Made in Italy

E.S.P.

50 Hz - 60 Hz



ELECTRONIC SYSTEM PROTECTION

E.S.P. is a control board for the protection and control of electro-pumps.

The main feature of this device is the protection of the motor pump from dry running by checking the motor cosphi.

Cosphi and current motor parameters can be manually set by the operator (**MANUAL FUNCTION**), by inserting a minimum Cosphi threshold value and a maximum current value. If these values are exceeded, the device will activate to protect the motor pump.

In addition to manual operation, the *E.S.P.* has an automatic mode (**AUTOMATIC FUNCTION**) with which it can automatically set necessary cosphi and current value to protect the motor pump.

All settings and displays are done through a keyboard and a display.

E.S.P. is available as three-phase and single-phase version: the latter comes with the possibility to insert a capacitor (not included).

E.S.P. is also supplied with a digital auxiliary input device to start or stop the pump. A float, a pressure switch, ..., may be connected to this input.

MAIN FEATURES AND PROTECTIONS

- Protection against dry running and automatic reset of protection after 10-20-40-80-(120x10 times) minutes.
- Electrical protection against motor overload.
- Protection against no-phase (three-phase version).
- Protection against over voltage.
- Output with cable glands.
- IP 55 protection class.

SPECIFICATIONS *E.S.P.*

Type	Approximate Power		Phase	Max. Current [A]	Weight [Kg]	Dimension [mm]
	[Hp]	[kW]				
Sline20	0,5 - 3	0,37 - 2,2	1	20	1,8	240 x 190 x 90
Tline10	0,5 - 4	0,37 - 3	3	10	1,8	240 x 190 x 90
Tline20	5,5 - 10	4 - 7,5	3	20	1,8	240 x 190 x 90
Tline30	12,5 - 15	9,2 - 11	3	30	2,4	240 x 190 x 90

C-BOX

50 Hz - 60 Hz



CONTROL BOX

C-BOX series of control panels are designed to protect single-phase electropumps.

Endowed with thermal-amperometric protection and start capacitor, in proportion with motor size.

MAIN FEATURES AND PROTECTIONS

- Box made of thermoplastic insulating material.
- On / Off switch.
- Externally resettable thermal protection.
- Output with cable glands.
- IP 54 protection class
- Auxiliary input for control by probes, float switch, pressure switch.

SPECIFICATIONS C-BOX

Type	Power		Protection [A]	Capacitor [μF]	Weight [Kg]	Dimension [mm]
	[Hp]	[kW]				
C-BOX20	0,5	0,37	5	20	0,75	170 x 150 x 70
C-BOX20D	0,5	0,37	5	20+(36/43)	1	200 x 155 x 80
C-BOX25	0,75	0,55	7	25	0,75	170 x 150 x 70
C-BOX25D	0,75	0,55	7	25+(53/64)	1	200 x 155 x 80
C-BOX35	1	0,75	8	35	0,75	170 x 150 x 70
C-BOX35D	1	0,75	8	35+(88/106)	1	200 x 155 x 80
C-BOX40	1,5	1,1	11	40	0,75	170 x 150 x 70
C-BOX40D	1,5	1,1	11	40+(110/125)	1	200 x 155 x 80
C-BOX60	2	1,5	14	60	0,85	200 x 150 x 70
C-BOX60D	2	1,5	14	60+(125/160)	1,6	255 x 195 x 100
C-BOX70	3 WM	2,2	20	70	0,85	200 x 150 x 70
C-BOX70D	3 WM	2,2	20	70+(200/250)	1,6	255 x 195 x 100
C-BOX80	3 OM	2,2	20	80	0,85	200 x 150 x 70
C-BOX80D	3 OM	2,2	20	80+(200/250)	1,6	255 x 195 x 100
C-BOX90	4	3	28	90	1,6	255 x 195 x 100
C-BOX90D	4	3	28	90+(250/300)	2,4	310 x 240 x 110
C-BOX100D	5	3,7	32	100+(250/300)	2,4	310 x 240 x 110
C-BOX120D	5,5	4	35	120+(250/300)	2,6	310 x 255 x 110



PM S.r.l.

Via A. Volta, 8
36040 Brendola (VI) - Italy
T. +39 0444 673043
F. +39 0444 677273
info@pmtechnology.eu
www.pmtechnology.eu



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