



Protection and control panels for a submersed or surface electric pump with direct start-up. The control panel can manually and automatically control an electric pump.

In the automatic function, the electric pump is controlled by the pressure switch, the float or signals that come from the electric probes or from the floats.

TECHNICAL DETAILS

- Protection against dry running (control using an electric probe) with automatic reset and water return
- Reservoir filling level control with two electric probes or floats
- Reservoir emptying level control with two electric probes or floats
- Cosφ module, optional for controlling against dry running without the use of the electric probes
- Motor protection against overloads and an automatic reset phase for three interventions, manual at the fourth
- Pump protection against excessive start-ups
- Overload and board protection, against short circuits, with fuses
- Remote displaying with NC-NO potential free contact of the present fault or alarm float
- Clamps for connecting any single phase motor starter capacitor
- Clamps for connecting a pressure switch
- Clamps for connecting an alarm float

TECHNICAL DATA

- 230V +10-15% 50/60 Hz power supply (single phase)
400V +10-15% 50/60 Hz (three phase + N)
- Temperature of the liquid: from -10°C to +40°C
- IP55 Protection rating
- Reference Standards: EN 60204-1, EN 60439-1, EN 61000-6-3, EN 61000-6-1 (for civil environments)

ELECTRIC DATA TABLE

Single phase 230V +10-15% - 50Hz Model	[HP]	[kW]	[A] max	Recommended capacitor	
				[μF]	[V]
1EPBH 0,37 M	0,5	0,37	4	16/20	450
1EPBH 0,55 M	0,75	0,55	6	20/25	450
1EPBH 0,75 M	1	0,75	8	35	450
1EPBH 1,1 M	1,5	1,1	10	40	450
1EPBH 1,5 M	2	1,5	12	50/60	450
1EPBH 2,2 M	3	2,2	20	70/80	450

Control panels without capacitor

ELECTRIC DATA TABLE

Three phase 400V +10-15% - 50Hz Model	[HP]	[kW]	[A] max
1EPBH 0,37÷1,1 T	0,5÷1,5	0,37÷1,1	4
1EPBH 1,5 T	2	1,5	4
1EPBH 2,2 T	3	2,2	6
1EPBH 3 T	4	3	10
1EPBH 4 T	5,5	4	12
1EPBH 5 T	7,5	5,5	16