

# 1EPBH

## ELECTRICAL PANELS FOR SUBMERSED AND SURFACE ELECTRIC PUMPS



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 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

- Power supply 230V +10-15% 50/60 Hz (single phase)  
400V +10-15% 50/60 Hz (three phase + N)
- Temperature: from -10°C to +40°C
- Protection degree: IP55
- Reference standards: EN 60204-1, EN 60439-1, EN 61000-6-2, EN 61000-6-4 (for domestic and light industry application)

### ELECTRIC DATA TABLE

Model Single phase 230V +10-15% - 50Hz	[HP]	[kW]	[A] max.	Recommended capacitor	
				μF	[V]
1EPBH 0.37 M	0.5	0.37	2.6	16/20	450
1EPBH 0.55 M	0.75	0.55	4	20/25	450
1EPBH 0.75 M	1	0.75	5.5	35	450
1EPBH 1.1 M	1.5	1.1	8	40	450
1EPBH 1.5 M	2	1.5	9.5	50/60	450
1EPBH 2.2 M	3	2.2	15	70/80	450

Electrical panels without capacitor

Model Three phase 400V +10-15% - 50Hz	[HP]	[kW]	[A] max.
1EPBH 0.37÷1.1 T	0.5÷1.5	0.37÷1.1	1.6÷3.4
1EPBH 1.5 T	2	1.5	4.6
1EPBH 2.2 T	3	2.2	6.2
1EPBH 3 T	4	3	8
1EPBH 4 T	5.5	4	10.2
1EPBH 5.5 T	7.5	5.5	14.4
1EPBH 7.5 T	10	7.5	19.5
1EPBH 9.2÷11 T AVS 2E*	12.5 ÷ 15	9.2 ÷ 11	10
1EPBH 15 T AVS 2E*	20	15	32
1EPBH 18.5 T AVS 2E*	25	18.5	38
1EPBH 22 T AVS 2E*	30	22	45
1EPBH 30 T AVS 2E*	40	30	55
1EPBH 37 T AVS 2E*	50	37	70
1EPBH 45 T AVS 2E*	60	45	80

\* Start with reactance



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## ELECTRICAL PANELS FOR SUBMERSED AND SURFACE ELECTRIC PUMPS

**ELECTRIC DATA TABLE** THREE PHASE 6" SUBMERSED MOTORS

Model Three phase 400V +10-15% - 50Hz	[HP]	[kW]	[OY] [A] max	[WY]
1EPBH 4 T	5.5	4	8.9	9.3
1EPBH 5.5 T	7.5	5.5	12.4	12.5
1EPBH 7.5 T	10	7.5	17.2	16
1EPBH 9.2÷11 T AVSE 2E*	12.5÷15	9.2÷11	22÷23.9	20.7÷23.3
1EPBH 15 T AVSE 2E*	20	15	31.4	31.3
1EPBH 18.5 T AVSE 2E*	25	18.5	41.5	38.5
1EPBH 22 T AVSE 2E*	30	22	46.5	45.3
1EPBH 30 T AVSE 2E*	40	30	63	63.5
1EPBH 37 T AVSE 2E*	50	37	79.2	73
1EPBH 45 T AVSE 2E*	60	45	-	89.5

\*= Start with -2 isolators

**ELECTRIC DATA TABLE** THREE PHASE 8" SUBMERSED MOTORS

Model Three phase 400V +10-15% - 50Hz	[HP]	[kW]	[A] max [WY]
1EPBH 30 T AVSE 2E*	40	30	61
1EPBH 37 T AVSE 2E*	50	37	74
1EPBH 45 T AVSE 2E*	60	45	89
1EPBH 55 T AVSE 2E*	75	55	108
1EPBH 75 T AVSE 2E*	100	75	145
1EPBH 93 T AVSE 2E*	125	93	190
1EPBH 110 T AVSE 2E*	150	110	222

\*= Start with -2 isolators