

Panels for SUBMERSIBLE Pumps

THREE PHASE PUMPS WITH SOFT STARTER

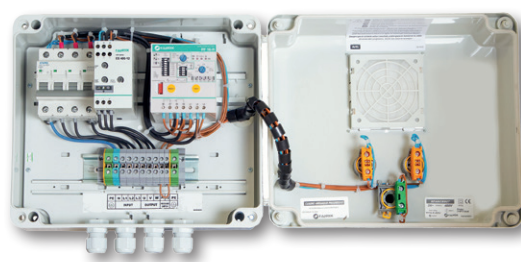
- Thermal memory of motors heating and cooling cycles.
- Automatic reset for well filling. Adjustable from 2 to 75 minutes.
- Trip cause indication.
- Control point for pressure switch, buoy, programmer...
- Plastic case.
- Includes: circuit breaker 3P+N, PF-R electronic relay, ES soft starter, contactor, LEDs and on/off switch.

FANOX protection panels with progressive startup and shut-down are fitted with ES soft starters to prevent problems caused by water hammering or sudden start-ups and shut-downs.

Protection against dry running is provided by the PF-R relay that monitors the value of $\cos \varphi$ and shuts down the pump when it falls below the selected value.

- IP 55

CBS



PROTECTION FUNCTIONS

- $\cos \varphi$ Underload
- $I >$ Overload
- Δ Phase imbalance or phase loss
- (R) Phase sequence
- $I >>$ Short-circuit
- \sim Soft start
- \sim Soft stop

WITHOUT LEVEL SENSORS

Models	3 X 230 V Motor current		3 X 400 V Motor current		Power of motor		Adjustable well filling time (minutes)	Dimensions (mm)
	Code	In (A)	Code	In (A)	HP	kW		
CBS-2/P	12321P-230	2 - 6.8	12321P-400	3.8	0.5 - 2	0.37 - 1.5	2 - 75	300 x 250 x 140
CBS-3/P	12322P-230	9.6	12322P-400	5.5	3	2.2	2 - 75	300 x 250 x 140
CBS-5/P	12323P-230	12.4 - 15.6	12323P-400	7.0 - 9.5	4 - 5.5	3.4	2 - 75	300 x 250 x 140
CBS-7/P	12324P-230	22	12324P-400	13	7.5	5.5	2 - 75	300 x 250 x 140
CBS-10/P	12326P-230	28	12326P-400	16.5	10	7.5	2 - 75	300 x 400 x 200
CBS-12/P	12327P-230	37	12327P-400	21	12.5	9.2	2 - 75	300 x 400 x 200
CBS-15/P	12328P-230	42	12328P-400	24	15	11	2 - 75	300 x 400 x 200
CBS-20/P	12329P-230	56	12329P-400	32	20	15	2 - 75	3300 x 400 x 200
CBS-25/P	12330P-230	68	12330P-400	40	25	18.5	2 - 75	300 x 400 x 200
CBS-30/P	12331P-230	80	12331P-400	47	30	22	2 - 75	300 x 400 x 200

- Equipment with halogen-free wiring
- Other voltages under request

* Models available in metallic box.