

Panels for SUBMERSIBLE Pumps

THREE PHASE PUMPS

- 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...
- Includes: circuit breaker 3P or 3P+N, PF-R electronic relay, contactor, LEDs and on/off switch.
- Models from 20 HP or more also include voltmeter, ammeter and φ meter.

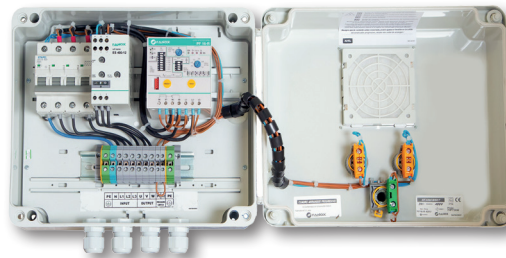
The cosine of phi ($\cos \varphi$) is the value of the cosine of the phase angle between the voltage and the intensity of the electrical current. This oscillates from a value slightly below 1 for a full load operating motor to almost 0 when it is dry running.

Therefore, in dry running situations, $\cos \varphi$ falls significantly. This reduction is monitored by the PF-R relay installed in FANOX three-phase protection panels, meaning that when it falls beneath the adjusted value, the panel shuts down the pump and protects it from damage.

- IP 55

WITHOUT LEVEL SENSORS

CBT



PROTECTION FUNCTIONS

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

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		
CBT-1/P	12301P-230	2 - 6.8	12301P-400	1.1 - 2	0.5 - 1	0.37 - 0.75	2 - 75	230 x 250 x 150
CBT-2/P	12302P-230	9.6	12302P-400	2.8 - 3.8	1.5 - 2	1.1 - 1.5	2 - 75	230 x 250 x 150
CBT-3/P	12303P-230	12.4 - 15.6	12303P-400	3.2 - 8.5	1 - 3	0.75 - 2.2	2 - 75	230 x 250 x 150
CBT-5/P	12305P-230	22	12305P-400	5.5 - 9.5	3 - 5.5	2.2 - 4	2 - 75	230 x 250 x 150
CBT-7/P	12307P-230	28	12307P-400	13	7.5	5.5	2 - 75	230 x 250 x 150
CBT-10/P	12310P-230	37	12310P-400	16.5	10	7.5	2 - 75	230 x 250 x 150
CBT-15/P	12315P-230	42	12315P-400	24	15	11	2 - 75	230 x 250 x 150
CBT-20/P	12316P-230	56	12316P-400	32	20	15	2 - 75	300 x 400 x 220
CBT-25/P	12317P-230	68	12317P-400	40	25	18.5	2 - 75	300 x 400 x 220
CBT-30/P	12318P-230	80	12318P-400	47	30	22	2 - 75	400 x 600 x 200
CBT-40/P	12319P-230	104	12319P-400	64	40	30	2 - 75	400 x 600 x 200
CBT-50/P	12320P-230	130	12320P-400	79	50	37	2 - 75	400 x 600 x 200
CBT-60/P	12332P-230	154	12332P-400	92	60	45	2 - 75	400 x 600 x 200

- Equipment with halogen-free wiring
- Models available in metallic box.