

EP (SD) SERIES

ELECTRICAL PANELS FOR SUBMERGED AND SURFACE-MOUNTED ELECTROPUMPS



Protection and control electrical panels for one, two or three electropumps (versions with 4 or more electropumps can be supplied on request). Manual or automatic operation through pressure switches or floats. Moreover, there are 2 clamps for connecting a minimum level float or minimum level pressure switch for monitoring to prevent dry running. The intervention stops the electropumps and is signalled through appropriate indicator lights on the electrical panel. The electrical panels protect the motors against overload and phase failure. Any protection devices that intervene are signalled on the panel itself and remotely through clean contacts (if a remote control box is connected). The protection device against overload and phase failure resets automatically three times, and manually after the fourth intervention (any interventions, from 1 to 3, are cancelled one hour after the last intervention).

TECHNICAL FEATURES

- P.MIN= Operation against dry running (controlled through a minimum level float or pressure switch) with automatic reset once the water returns
- PR= Electropump/s stop and start control
- Automatic exchange of the restart order on multiple electropump control panel versions
- Motor protection against overload with automatic reset for three times and manual reset the fourth time
- Motor line protection against short-circuits with fuses for motor start-up
- Transformer and auxiliary circuit protection with fuses
- Remote signalling, through NC-NA clean contact, of the protection devices that intervene
- Operational continuity of the panel even with KL1 exchange module excluded (only for 2EP SD panels)

SPECIFICATIONS

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

ELECTRIC DATA TABLE 1EP

Model Single-phase 230V +10-15% - 50Hz	[HP]	[kW]	Nominal corr. [A]	Protection range [A]
1EP 0,37 - 2,2 M UA	0,55 ÷ 3	0,37 ÷ 2,2	16	3,2 ÷ 16

Electrical panels without capacitor. For potential combination with submerged pump contact our sales network.

Model Three-phase 400V +10-15% - 50Hz	[HP]	[kW]	Nominal corr. [A]	Protection range [A]
1EP 2,2 T	0,55 ÷ 3	0,37 ÷ 2,2	6	3,2 ÷ 16
1EP 7,5 T	4 ÷ 10	3 ÷ 7,5	16	3,2 ÷ 16
1EP 11 SD UA	15	10	25	9 ÷ 15
1EP 15 SD UA	20	15	31	12 ÷ 18
1EP 18,5 SD UA	25	18,5	36	16 ÷ 24
1EP 22 SD UA	30	22	50	23 ÷ 32
1EP 30 SD UA	40	30	62	30 ÷ 40
1EP 37 SD UA	50	37	77	37 ÷ 50

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ELECTRIC DATA TABLE 2EP

Model Single-phase 230V +10-15% - 50Hz	[HP]	[kW]	Nominal corr. [A]	Protection range [A]
2EP 0,37 M UA E. (*)	0,55+0,55	0,37+0,37	3	1÷12
2EP 0,55 M UA E. (*)	0,75+0,75	0,55+0,55	4,5	1÷12
2EP 0,75 M UA E. (*)	1+1	0,75+0,75	7	1÷12
2EP 1,1 M UA E. (*)	1,5+1,5	1,1+1,1	9	1÷12
2EP 1,5 M UA E. (*)	2+2	1,5+1,5	12	1÷12
2EP 2,2 M UA E. (*)	3+3	2,2+2,2	16	12÷24

(*) Electrical panels without capacitor.

Model Three-phase 400V +10-15% - 50Hz	[HP]	[kW]	Nominal corr. [A]	Protection range [A]
2EP 0,37 T UA	0,55+0,55	0,37+0,37	1,5	1÷12
2EP 0,55 T UA	0,75+0,75	0,55+0,55	2	1÷12
2EP 0,75 T UA	1+1	0,75+0,75	2	1÷12
2EP 1,1 T UA	1,5+1,5	1,1+1,1	3	1÷12
2EP 1,5 T UA	2+2	1,5+1,5	4	1÷12
2EP 2,2 T UA	3+3	2,2+2,2	6	1÷12
2EP 3 T UA	4+4	3+3	8	1÷12
2EP 4 T UA	5,5+5,5	4+4	9	1÷12
2EP 5,5 T UA	7,5+7,5	5,5+5,5	12	12÷24
2EP 7,5 T UA	10+10	7,5+7,5	16	12÷24
2EP 11 SD UA	15+15	11+11	20	9÷15
2EP 15 SD UA	20+20	15+15	31	14÷23
2EP 18,5 SD UA	25+25	18,5+18,5	36	14÷23
2EP 22 SD UA	30+30	22+22	50	20÷33

ELECTRIC DATA TABLE 3EP

Model Three-phase 400V +10-15% - 50Hz	[HP]	[kW]	Nominal corr. [A]	Protection range [A]
3EP 0,55 T UA	0,75+0,75+0,75	0,55+0,55+0,55	2	1÷12
3EP 1,1 T UA	1,5+1,5+1,5	1,1+1,1+1,1	3	1÷12
3EP 1,5 T UA	2+2+2	1,5+1,5+1,5	4	1÷12
3EP 2,2 T UA	3+3+3	2,2+2,2+2,2	6	1÷12
3EP 3,7 T UA	5+5+5	3,7+3,7+3,7	8	1÷12
3EP 5,5 T UA	7,5+7,5+7,5	5,5+5,5+5,5	12	12÷24
3EP 7,5 T UA	10+10+10	7,5+7,5+7,5	16	12÷24
3EP 9,25 SD UA.	12,5+12,5+12,5	9,2+9,2+9,2	10,5	12÷24
3EP 11 SD UA	15+15+15	11+11+11	20	9÷15
3EP 15 SD UA	20+20+20	15+15+15	31	14÷23
3EP 18,5 SD UA	25+25+25	18,5+18,5+18,5	36	14÷23
3EP 22 SD UA	30+30+30	22+22+22	50	20÷33