GROUP 12- ALL/NOTHING, PD, PID temperature adjusters. Programmers

12.1 - Control and switch boards

A correct choice of setting and switch system material increases the results of the thermoelectrical elements and guarantees that the system works properly within the established working limits.

All Electricfor control and switch boards are designed to respond to European safety specifications.

Choice of whether the control board is a standard model or a made to measure model following specific specifications will depend largely on the following criteria:

- Type of control method
- Required setting accuracy

If its application refers to a high thermal inertia process (for example, heating of large water or oil tanks), an ACO- type control board with ALL/NOTHING settings by contactors may be the best solution.

If on the other hand your process consists in instantaneous heating of circulating fluid (for example, tankless heaters) or you require rapid reactions in the setting system with great accuracy of temperature control, then the most suitable control board for you will be an ACT-type with a power setting by thyristors.

Contact our technical service for them to help you choose the most suitable equipment for each application.

Apart from setting and switch boards, you will also find a wide range of both mechanical and electronic action thermostats, of ALL/NOTHING, PD and PID type on pages 116, 117, 118 and 119 of this catalogue.

ACO model control and switch boards. Power control by contactor (ALL-NOTHING)

- Board of an appropriate size for each range of power with IP-65 damp protection rating
- Control of one ALL/NOTHING power stage controlled by a remote thermostat
- Connection input for a safety thermostat
- Front running switch with door blocking and integrated fuses

Code	Voltage	Maximun nominal power, in KW	Dimensions in mm		
			High	Wide	Deph
ACO12	3N~400	12 kW	400	400	200
ACO27	3N~400	27 kW	400	400	200
ACO50	3N~400	50 kW	500	500	300
ACO61	3N~400	61 kW	500	500	300

ACT model control and switch boards. Power control by thyristor

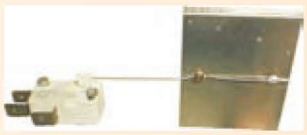
- Painted steel board of an appropriate size for each range of power with IP-41 damp protection rating.
- 1 sectioner door blocking + general protection.
- 1 safety contactor (overheating of the process/internal overheating/external contact).
- 1 break thyristor on 3 phases (in the 3N~400 V versions) with RC varistors and circuits.
- Feed and outlets on terminal block.
- 1 PID adjustable temperature controller.

Code	Voltage	Maximun nominal power, in KW	Dimensions in mm		
			High	Wide	Deph
ACT8	~230	8 kW	300	300	250
ACT12	3N~400	12 kW	300	300	250
ACT22	3N~400	22 kW	400	400	250
ACT27	3N~400	27 kW	600	500	311
ACT51	3N~400	51 kW	600	500	311
ACT60	3N~400	60 kW	600	500	311
ACT86	3N~400	86 kW	600	500	311

GROUP 11- Thermostats, hygrostats, pressostats, time switches and temperature sensors

11.11 - Regulators

FLOW SWITCH, MODELS MR-2



Code	Description	Characteristics
517167000	FLOW SWITCH "MR-2"	Trip air speed approx.: 2 m/sec. Maximum ambient temperature: 40 °C

POWER REGULATOR, MODELS MR-1

Code	Description	Characteristics
517192000	POWER REGULATOR	Current: 2A 230 V. 500 W
517193000		Current: 6A 230 V. 1500 W
517194000		Current: 12A 230 V. 2750 W

ENERGY REGULATORS

Code	Description	Characteristics
517230000	ENERGY REGULATOR. (By means of percentage variations of ON / OFF periods of load circuit) ~200/240 V. 13 A	Energy Timer/Regulator
517230001		White button for energy regulator

Santiago Escoin Homs.
Apartado / P.Q. Box / B.P. / Potsfach / Postbus: 10.142
E-08080-Barcelona-Spain.

Tels: 934290345-626150219-609301969. Fax: 933570049
emails: santiescoin@gmail.com - santiagoescoin@gmail.com
santiescoin@seker.es
web: www.santiescoin.com