

PUMP CONTROLLER FOR ZONED SITES

IPS 318 C1 Eng.

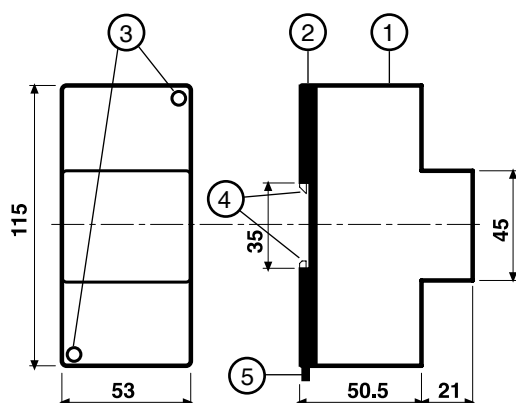


- On-Off control of a pump for zoned sites
- Parallel inputs for N number zones
- Adjustable delay switching off pump
- Power supply: 230 V~; DIN rail mounting

1. APPLICATION

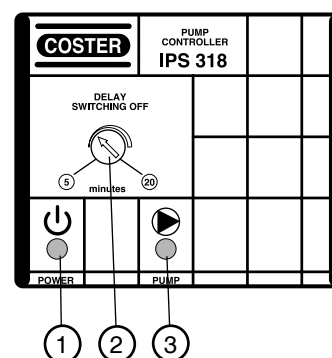
- Designed for use in zoned sites to control pump in relation to thermal demand.
- Thermal demand zero: pump off after delay set.
 - Thermal demand different from zero: pump operating.

2. OVERALL DIMENSIONS



- 1 – Protective cover for electronic components
 2 – Base with transformer, relay and terminal blocks
 3 – Screws for securing base and cover
 4 – DIN rail securing elements
 5 – DIN rail release lever

3. FACIA



- 1 - Power LED
 2 - Setting delay switching off
 3 - Pump operation LED

4. TECHNICAL DATA

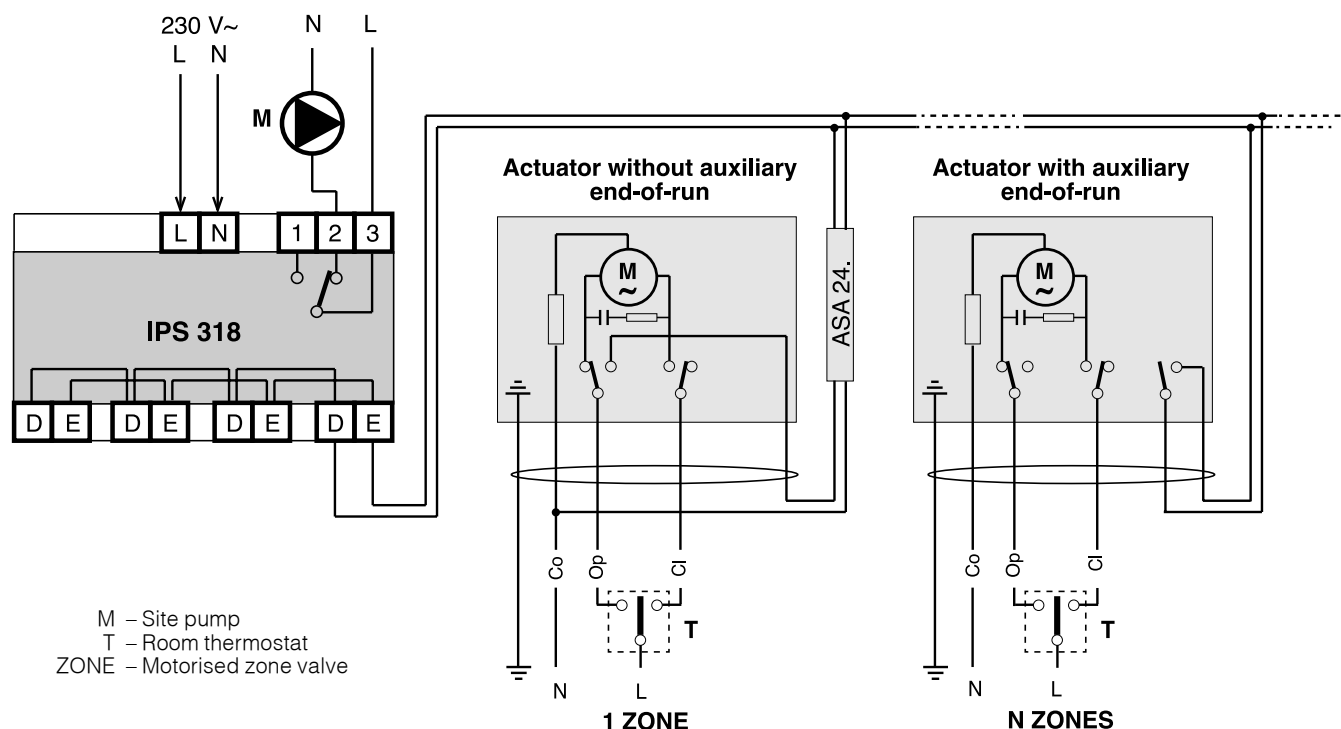
Power supply	230 V~ ± 10%	Housing	DIN 3E module
Frequency	50 ... 60 Hz	Mounting	on DIN 35 rail
Consumption	2 VA	Materials:	
Protection	IP40	Base	NYLON
Radio disturbances	VDE0875/0871	Cover	ABS
Vibration test	with 2g (DIN 40 046)	Ambient temperature:	
Voltage-free output contacts:		Operating	0 ... 45°C
Maximum switching voltage	250 V~	Storage	– 25 ... + 60°C
Maximum switching current	5 (1) A	Ambient humidity	Class F DIN 40040
Construction standards	Italian Electrotech. Committee (CEI)	Delay switching off	5...20 minutes
		Weight	0.23 kg

5. INSTALLATION

IPS 318 must be installed in a dry location that meets the ambient limits given under TECHNICAL DATA. If installed in spaces classified as "Hazardous" it must be mounted in a cabinet for electrical appliances constructed according to the regulations in force for the type of danger concerned.

The controller can be mounted on a DIN rail and installed in a standard DIN enclosure.

6. WIRING DIAGRAM



7. ELECTRICAL CONNECTIONS

Proceed as follows :

- Separate base from cover (loosen the securing screws)
- Mount the base on the DIN rail and check that it is firmly anchored by the securing elements (2.4)
- Carry out the wiring according to the diagram and in compliance with electrical regulations in force and using :
 - 1.5 mm² cables for power supply and relay control output.
 - 1 mm² for input switches
- Apply power (230 V~) and check its presence across terminals L and N.
- Remove power, replace cover on base/terminal block and secure it with the two screws supplied (2.3)

You are advised not to insert more than two cables in a single terminal of the controller and, if necessary, to use an external junction box.

8. OPERATION

As many zones as required can be connected to the terminals (D-E) of IPS 318 since the control switches are all connected in parallel inside the controller.

IPS 318 switches the site circulation pump on or off according to demand for heat received from each single zone. When valves are closed the pump becomes idle after the delay set on IPS 318 (3.2).

The opening of one or more valves in the zones connected brings about the immediate start up of the pump (LED 3.3 lit).

NB: For actuators without auxiliary ends-of-run it is necessary to use operational ends-of-run together with accessory ASA 241 or 248 as shown on the wiring diagram (1 Zone).

In the presence of disturbances the output controls of the controller may change status but will return to normal automatically.