



## THERMOELECTRIC ACTUATOR LOW CONSUMPTION 230V OR 24V

Closed when power is off (NC)

### Overview



#### Main features

- Control the opening and closing of the hydraulic valves
- You can view the position (open/closed) of the valve
- Maintaining on opening position during installation

#### Application

- Underfloor heating/cooling
- Control opening /closing of the water circuit
- Fan coil Unit

#### Product + points

- **Reliability** thanks to the high quality of its wax element, proved by more than 200.000 test cycles. This helps to master:
  - > Reduction of the total stroke
  - > Improvement of the response times
  - > Improvement of the power consumption
- **Convenient:** product has a small footprint
- Logo and cover markings **can be customized**

## Functional specifications

### Use

**Control window** for controlling the valve status, open or closed: as soon as the valve is open a red ring appears in the control window and indicates the valve status

**Increased reliability:** a metal coupling nut assures a maximum lifetime of your product

**Régulation input** ON/OFF

### Installation

**Coupling nut in Nickel plated brass** for safe mounting

No limitation for the installation position, **installation possible in all direction**

**A 100 cm-long electrical connection cables helps to overcome electrical connection constraints**

**Marking area:** A specific marking area is provided in order to allow to installer to identify the working area of each thermal actuator

**Maintaining on opening position during installation** The thermoelectric actuator is maintained in opened position until the first switch on, which ease mounting on manifold, avoiding effort

**Valves compatibility**

- The reference dimension of thermoelectric actuator is about 11 mm
- The coupling nut has a standardized thread: M30 x 1.5



# Technical specifications

## Dimensional and finish specifications

<b>Dimensions (en mm)</b>		
<b>Thread of the coupling nut</b>	M30 X 1.5	
<b>Finishing</b>	Translucent frosted	
<b>Net weight</b>	110 g ±10%	
<b>Cable length</b>	100 cm	

## Power supply

<b>Operating voltage</b>	230V AC or 24V AC/DC		
<b>Frequency</b>	50Hz to 60Hz		
<b>Connection cables</b>	Class II: brown + blue, 2 x 0.75 mm <sup>2</sup>		
<b>Continuous power at 45°C</b>	<b>230V Version</b>	<b>24V Version</b>	
	≈ 1 W	≈ 1 W	
<b>Permanent current level at 25°C</b>	<b>230V Version</b>	<b>24V Version</b>	
	≈ 5.2 mA	≈ 50 mA	
<b>Start up current at 25°C</b>	≈ 250mA		

## Mechanical specifications

<b>Duration of opening</b>	Approx. 4 min (depending on the ambient temperature)
<b>Initial duration of opening</b>	Approx. 2 min (depending on the ambient temperature)
<b>Force of the spring</b>	105 N ±15% for movement of 0.5 mm
<b>Length of stroke</b>	4,5 mm

## Environment

<b>Protection rating</b>	IP44 in accordance with EN60335	
	IP40 in accordance with EN60335	
<b>Class</b>	Class II	
<b>Max. room temperature</b>	60°C / 140°F	
<b>Storage temperature</b>	0°C to +60°C	
<b>Humidity of the air</b>	From 10% to 90% without condensation	

## Applicable directives

<b>EMC</b>	2014/30/EU
<b>LVD</b>	2014/35/EU
<b>RoHS</b>	2011/65/EU

## Applicable standards

<b>EMC</b>	EN61000-6-1 ; EN61000-6-2 ; EN61000-6-3 ; EN61000-6-4
<b>LVD</b>	EN60730-1 ; EN60730-2-14 ; EN62311
<b>RoHS</b>	EN50581
<b>Manufacturing</b>	On certified site ISO 9001 V2008

# Product codes

## Codes

## Désignation

<b>MTC0230TA</b>	Thermoelectric actuator low consumption closed when power is off (230V)
<b>MTC0024TA</b>	Thermoelectric actuator low consumption closed when power is off (24V)

Product customization (design features) possible. Please contact us.