

# M400 Series

## Thermoelectric Linear Actuators








Honeywell M400 Series Thermoelectric Linear Actuator is specially designed for short and linear stroke on/off valves, like actuated zone valve and on/off pressure independent control valve and more. With a slower running speed, the thermoelectric actuator can help to avoid water hammer effectively.

For normally closed (NC) version actuator, when power is on, the built-in paraffin propeller expands causing the push rod to move up and the valve is opened. When power is off, the built-in paraffin propeller shrinks causing the push rod to move down and the valve is closed.

The actuator and valve are easy to be installed. A 1 meter cable is included for convenient on-site connection.



## Features

-  No mounting tools required (easily mounted using valve adapter)
-  Water-protected housing design in all mounting positions
-  Compact design allows installation in limited space
-  Visual indicator to show valve position
-  Noiseless operation
-  Reliable long term operation
-  Overload protection (4 kV) for 230 V models

## Basic Parameters

Model	M400
Power supply	230 VAC $\pm 10\%$ 50/60 Hz, 24 VAC $\pm 10\%$ 50/60 Hz
Thrust force	100 ... 140 N
Stroke	4.5 mm
Power consumption	2 VA
IP rating	IP54
Wiring	2 $\times$ 0.5 mm <sup>2</sup>
Connection	M30 $\times$ 1.5
Operating environment	-5 ... +60°C, 0 ... 90% r.F.

## Order information and parameters

SKU	Stroke	Action	Voltage	Initial Current*	Permanent Current*	Power Consumption*	Running time**
M400-AG	4.5 mm	Öffner (Normally Closed - NC)	24 VAC ±10%	<250 mA	85 mA ±1.5 mA	2 W	5 min ±1.5 min
M400-BG	4.5 mm	Öffner (Normally Closed - NC)	230 VAC ±10%	<250 mA	8 mA ±1.5 mA	2 W	3.5 min ±1.5 min

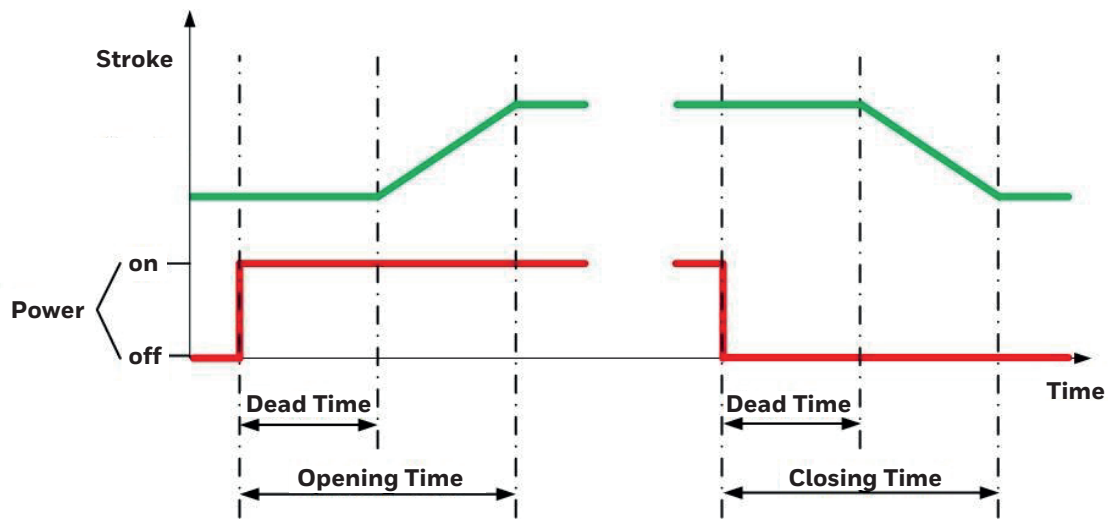
available

\* All values at nominal voltage 24 VAC, 230 VAC, 50 Hz, ambient temperature: 30 °C.

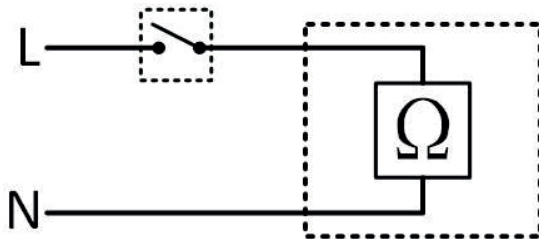
\*\* Value at ambient temperature: 30 °C, the first running time is longer than routine.

Other variants such as Normally Open (NO), with auxiliary switch and 2.5 m cable length available.

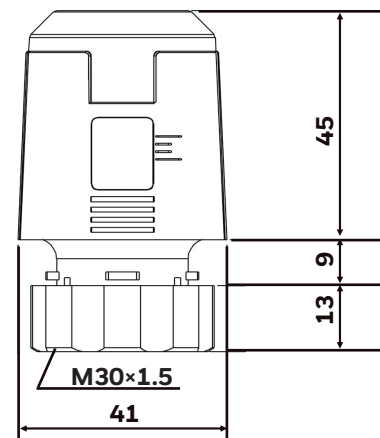
## Open and Close time



## Wiring and dimension [mm]



There are two cables, one is connected with live line, one is connected with neutral line, no color identification.



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