# Modulating, Non-Spring Return, 24 V, Shared Logic Technology®









24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%
5 W
8 VA (class 2 power source)
18 GA plenum rated cable and RJ45 socket (ethernet)
electronic thoughout 0° to 90° rotation
2 to 10 VDC (default) VDC variable
100 kΩ (0.1 mA), 500 Ω
2 to 10 VDC (default) VDC variable
90°
reversible with web view
integrated into handle
external push button
90 sec
<95% RH non-condensing
-22°F to 122°F [-30°C to 50°C]
-40°F to 176°F [-40°C to 80°C]
NEMA 1, IP54, UL Enclosure Type 1
UL94-5VA
cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC
max. 45 dB (A)
maintenance free
ISO 9001
1.5 lb [0.7 kg]
BACnet IP, BACnet MS/TP, listed by BTL, Modbus RTU, Modbus IP, web server, Belimo MP-Bus

The Energy Valve is based on Belimo patent and patent pending technology, US-Patent 6,039,304: Ball valve with modified characteristics, US-Patent Pending: 2011/0153089: HVAC actuator comprising a network interface, data store and a processor, US-Patent Pending: 2009/009115: Control of sensor less and brushless DC-Motor.
The Energy Valve incorporates additional technology - Powered by Optimum Energy TM.





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#### Wiring Diagrams



## X INSTALLATION NOTES



Actuators with appliance cables are numbered.



Actuators may be connected in parallel. Power consumption and input impedance must be observed.



Actuators may also be powered by 24 VDC.



Actuators with plenum cable do not have numbers; use color codes instead.



Meets cULus requirements without the need of an electrical ground connection.



### WARNING! LIVE ELECTRICAL COMPONENTS!

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

