

GRB24-EV

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



| Technical Data | |
|-------------------------------|--|
| Power Supply | 24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10% |
| Power Consumption Running | 8 W |
| Transformer Sizing | 12 VA (class 2 power source) |
| Electrical Connection | 18 GA plenum rated cable and RJ45 socket (ethernet) |
| Overload Protection | electronic throughout 0° to 90° rotation |
| Operating Range Y | 2 to 10 VDC (default) VDC variable |
| Input Impedance | 100 kΩ (0.1 mA), 500 Ω |
| Feedback Output U | 2 to 10 VDC (default) VDC variable |
| Angle of Rotation | 90° |
| Direction of Rotation (Motor) | reversible with web view |
| Position Indication | integrated into handle |
| Manual Override | external push button |
| Running Time (Motor) | 90 sec |
| Ambient Humidity | <95% RH non-condensing |
| Ambient Temperature Range | -22°F to 122°F [-30°C to 50°C] |
| Storage Temperature Range | -40°F to 176°F [-40°C to 80°C] |
| Housing | NEMA 1, IP54, UL Enclosure Type 1 |
| Housing Material | UL94-5VA |
| Agency Listings† | cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC |
| Noise Level (Motor) | max. 45 dB (A) |
| Servicing | maintenance free |
| Quality Standard | ISO 9001 |
| Weight | 4.85 lb [2.2 kg] |
| Communication | 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.

Date created, 08/31/2017 - Subject to change. © Belimo Aircontrols (USA), Inc.

Wiring Diagrams
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.

