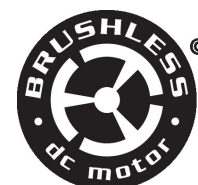


Modulating, Non fail-safe, 24 V



5-year warranty



## Technical data

|                        |                                |   |
|------------------------|--------------------------------|---|
| <b>Electrical data</b> | Nominal voltage                | AC/DC 24 V  |
|                        | Nominal voltage frequency      | 50/60 Hz  |
|                        | Nominal voltage range          | AC 19.2...28.8 V / DC 21.6...28.8 V   |
|                        | Power consumption in operation | 0.5 W   |
|                        | Transformer sizing             | 1 VA  |
|                        | Electrical Connection          | Plenum cable 18 AWG, 3 m  |
|                        | Overload Protection            | electronic throughout full rotation   |
| <b>Functional data</b> | Operating range Y              | 2...10 V  |
|                        | Operating range Y note         | 4...20 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)   |
|                        | Input impedance                | 100 kΩ for 2...10 V (0.1 mA), 500 Ω for 4...20 mA   |
|                        | Direction of motion motor      | selectable with switch  |
|                        | Manual override                | push down handle  |
|                        | Angle of rotation              | 90°   |
|                        | Running Time (Motor)           | 90 s / 90°  |
|                        | Noise level, motor             | 35 dB(A)  |
|                        | Position indication            | integrated into handle  |
| <b>Safety data</b>     | Power source UL                | Class 2 Supply  |
|                        | Degree of protection IEC/EN    | IP40  |
|                        | Degree of protection NEMA/UL   | NEMA 1  |
|                        | Housing                        | UL Enclosure Type 1   |
|                        | Agency Listing                 | cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02<br>CE acc. to 2014/30/EU and 2014/35/EU |
|                        | Quality Standard               | ISO 9001  |
|                        | UL 2043 Compliant              | Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC |
|                        | Ambient humidity               | Max. 95% RH, non-condensing   |
|                        | Ambient temperature            | -22...122°F [-30...50°C]  |
|                        | Storage temperature            | -40...176°F [-40...80°C]  |
|                        | Servicing                      | maintenance-free  |

Weight Weight 0.70 lb [0.32 kg]

## Electrical installation

### ✂ INSTALLATION NOTES

- 1 Provide overload protection and disconnect as required.
- 3 Actuators may also be powered by DC 24 V.
- 5 Only connect common to negative (-) leg of control circuits.
- 7 A 500  $\Omega$  resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.
- 11 Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.
- ◆ 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.

### Wiring diagrams

2...10 V / 4...20 mA Control

