

# AKRX24-EP2 Technical Data Sheet



5-year warranty



## Technical Data

Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, -10% / +20%
Power consumption in operation	8 W
Transformer sizing	16 VA (class 2 power source)
Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector
Overload Protection	electronic throughout 0...90° rotation
Operating Range	2...10 V (default), 4...20 mA w/ ZG-R01 (500 Ω, 1/4 W resistor), VDC variable
Input Impedance	100 kΩ (0.1 mA), 500 Ω
Position Feedback	default 2...10 V, VDC variable
Angle of rotation	90°
Torque motor	180 in-lb [20 Nm]
Direction of motion motor	reversible with pc tool
Direction of motion fail-safe	reversible with switch
Position indication	electronic throughout 0...90° rotation
Manual override	external push button
Running Time (Motor)	90 s
Running time fail-safe	<35 s
Ambient humidity	max. 95% r.H., non-condensing
Ambient temperature	-22...122°F [-30...50°C]
Storage temperature	-40...176°F [-40...80°C]
Degree of Protection	IP54, NEMA 2, UL Enclosure Type 2
Housing material	UL94-5VA
Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU
Noise level, motor	45 dB(A)
Servicing	maintenance-free
Quality Standard	ISO 9001
Weight	3.31 lb [1.5 kg]

†Rated Impulse Voltage 800V, Type action 1.B, Control Pollution Degree 3.

†Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3

## Wiring Diagrams

### ✂️ INSTALLATION NOTES

- Provide overload protection and disconnect as required.
- Actuators may be connected in parallel. Power consumption and input impedance must be observed.
- Actuators may also be powered by 24 VDC.
- Actuators are provided with color coded wires. Wire numbers are provided for reference.
- Actuators are provided with a numbered screw terminal strip instead of a cable.
- IN4004 or IN4007 diode required
- 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.

