

MOV Backseat Relay for AC valve motors

This device is used to remotely backseat motor operated valves (MOV) to stop packing leaks in locations where the valve cannot be easily accessed. It is connected at the motor control center to bypass the open limit switch. Up to three clamp-on current sensors are used to measure three phase current to the valve motor. After the initial current surge at motor start, the current is compared to a proportional setpoint. When the valve contacts the backseat packing, motor current increases. The relay senses the increase and opens the relay contact to remove power from the valve motor.

SPECIFICATIONS

Model:	201602-AC
AC Inputs:	0 to 0.7 Amps (RMS), three phase AC, corresponding to 700 Amps motor current using 1 mA/A AC current probes. With version 3.0 firmware and above, the relay will operate with one, two, or three AC probes.
Input Impedance:	1 ohm
Input Range:	Auto scaling is used to cover the current range in spans of approximately 20, 150, and greater amps.
Accuracy:	5% current display, 10 bit sensor resolution
Output:	MOSFET solid state relays rated for 400 volts AC, 2 amps continuous duty. Dual MOSFET relays are used in series for the output contact, along with an independent permit logic circuit controlled by the panel buttons, to reduce the possibility of a single failure keeping the motor running.
Connectors:	4mm safety banana jacks
Response Time:	< 9 milliseconds trip current sensing
Display:	2 lines x 20 characters LCD, backlit
Indications:	LEDs, green (contact open) and red (contact closed)
Power:	6 volts DC from four AA alkaline (supplied) or lithium batteries, up to 16 hours of operation.
Auto Shutoff:	After 30 minutes with no key press
Size:	195mm x 101mm x 44mm
Weight:	0.5 kg
Data Logging	Has the capability to save test data, including setup parameters, results, and current readings at 1 millisecond interval. The log is saved as a text format file to a Micro SD memory card.



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