▲ PEAKTRONICS

The Peaktronics ADM-100 AC to DC Motor Converter Modules are electronic interface units that allow a 24VDC motor to be powered and controlled in the same manner as a 24VAC split phase motor. Its compact size allows the unit to be mounted inside most DC actuators. The unit has an 8 pin screw terminal strip that provides easy wiring to the DC motor, limit switches, and torque switches. Three of the terminals provide the usual split phase motor connections: *open, close,* and *motor neutral.*

The unit allows a 24VDC actuator to directly replace a 24VAC actuator. The unit also features dynamic braking which provides better resolution and control while eliminating the need for a mechanical brake in many applications. The unit can be used in conjuction with other Peaktronics 24VAC control products and mounting kits this combination allows a complete line of 24VAC actuators to be created from a 24VDC actuator line.

The ADM-100 and ADM-100C can be used with motors with up to 15A locked rotor current, while the ADM-100A and ADM-100B can be used with motors with up to 5.5A locked rotor current. The ADM-100 and ADM-100A come with two high temperature high strength tie wraps allowing the units to be strapped to the side of the motor which reserves space in the actuator for other controls. The ADM-100 also features two mounting flanges with provisions for screw mounting. The ADM-100B and ADM-100C are more compact and economical and must be mounted to a suitable metal bracket; the unit comes with two screws for direct mounting.

ADM-100

24V AC to DC Motor Converter Module



SPECIFICATIONS

OPERATING VOLTAGE

20 to 30 VAC 20 to 30 VDC

OPERATING CURRENT

Limit Switch Current and Operating Current: 136mA typical @ 24VAC Fuse Type (ADM-100, ADM-100C): 8A (Bussman ABC-8 or Littelfuse 314008) Fuse Type (ADM-100A, ADM-100B): 4A (Bussman ABC-4 or Littelfuse 314004)

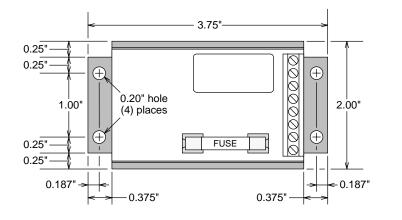
DC MOTOR OUTPUTS

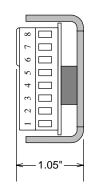
Maximum Load Current (ADM-100, ADM-100C): 15A locked rotor for 20 seconds typical Maximum Load Current (ADM-100A, ADM-100B): 5.5A locked rotor for 20 seconds typical

ENVIRONMENTAL

Operating Temperature Storage Temperature Relative Humidity 0 to 60 °C -40 to 85 °C 0 to 90 % (non-condensing)

OUTLINE

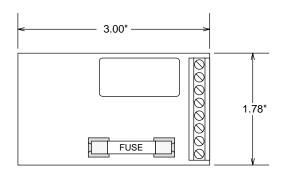


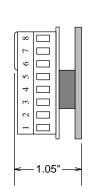


ELECTRICAL CONNECTIONS

- 8 CLOSE LIMIT 7
- OPEN LIMIT
- LIMIT COMMON 6 MOTOR 2
- 5 4
- MOTOR 1 3
- CLOSE (24VAC/DC) 2 COMMON
- 1 OPEN (24VAC/DC)

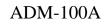


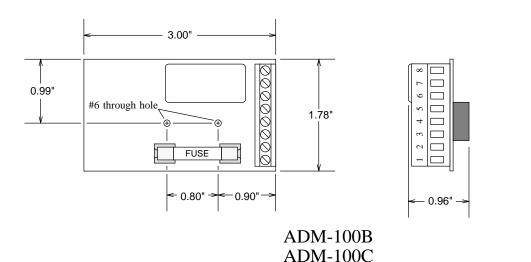




ELECTRICAL CONNECTIONS

- 8 CLOSE LIMIT
- 7 OPEN LIMIT
- 6 LIMIT COMMON
- 5 MOTOR 2
- MOTOR 1 4
- 3 CLOSE (24VAC/DC) 2 COMMON
- OPEN (24VAC/DC) 1

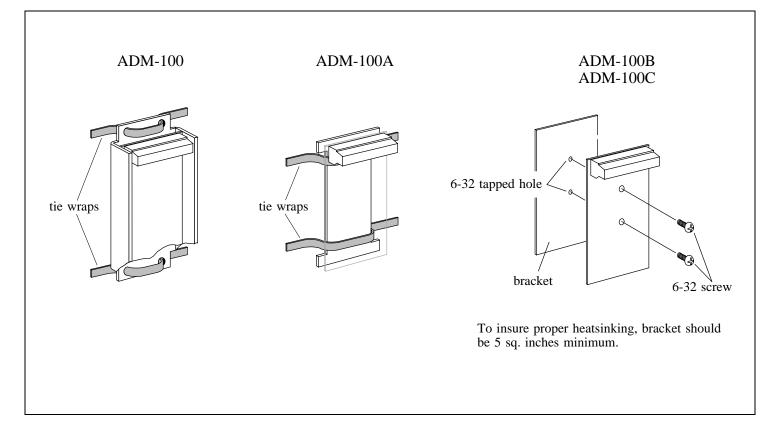




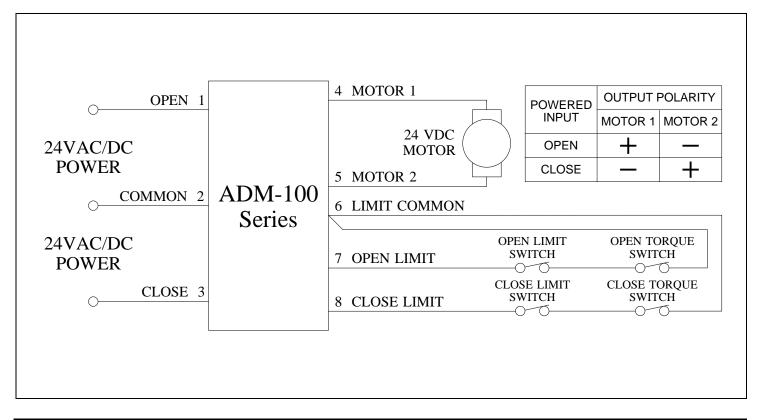
ELECTRICAL CONNECTIONS

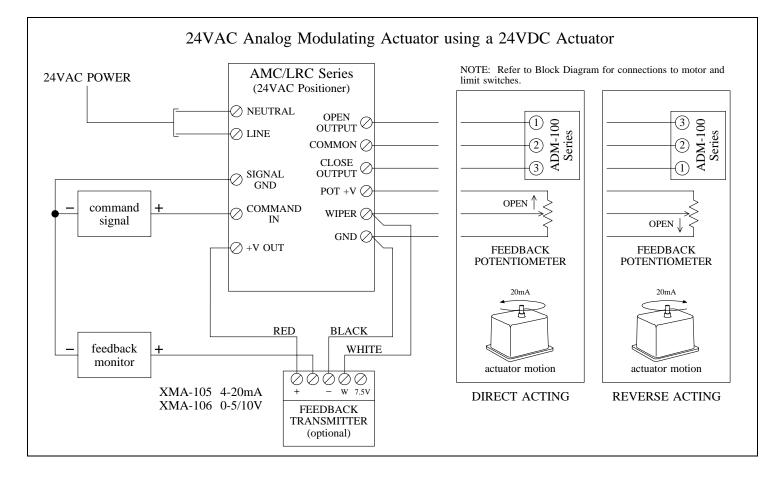
- 8 CLOSE LIMIT
- 7 OPEN LIMIT LIMIT COMMON 6
- MOTOR 2 5
- 4 MOTOR 1
- 3 CLOSE (24VAC/DC)
- 2 COMMON
- 1 OPEN (24VAC/DC)

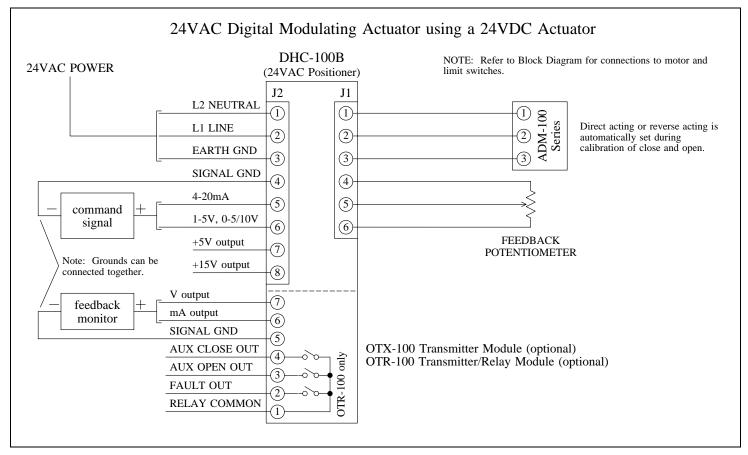
MOUNTING DIAGRAMS



BLOCK DIAGRAM







www.peaktronics.com