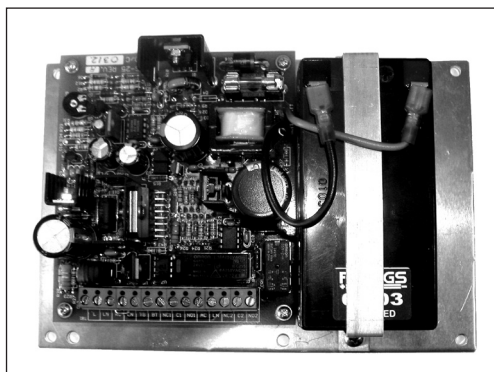


Data sheet

AM-PBU 25 Electronic Power Backup for 24 Vac Actuators

Descriptions



AM-PBU 25 is a standby mains power backup unit for AMV(E) 85, 86 or AMV(E) 55, 56 actuators. It is used as an "Electronic Spring Return" unit. During a power failure an actuator can be powered to its open or closed position. Normal control of the actuator automatically resumes when power returns. The charger section of the AM-PBU 25 keeps the battery in peak condition at all times. The battery can be monitored remotely from a building management system (BMS) or volt meter.

The AM-PBU 25 can serve one AMV(E) 85/86 actuator or two AMV(E) 55/56 actuators.

Ordering

Type	Description	Code No.
AM-PBU 25	Power backup unit	082H7090

Technical data

Power requirement	Vac/VA	24 /40
Power output		24/25, 2 spdt contacts
Output cycle time	minutes	5.4
Battery	V, Ah	12, 1.2
Ambient temperature	°C	0 ... 40
Ambient humidity		max. 65 % RH
Enclosure rating		IP 00
Standards		Emission - EN 50081-1 Immunity - EN 50082-1 Damp heat test - IEC 68-2-2
Weight	kg	1.1
Dimensions (mm)	mm	190 x 127 x 50 - panel mounted

Operation

During normal operation 24 Vac power passes through normally open relay contacts in the AM-PBU 25 to the power input terminals on the actuators. In the event of a power failure the AM-PBU 25 starts to provide 24Vac power to the actuator from the frequency converter.

This drives the valve either open or closed depending on the wiring of the actuator.

The power backup cycle lasts for 5.4 minutes. Normal operation is resumed when power is restored.

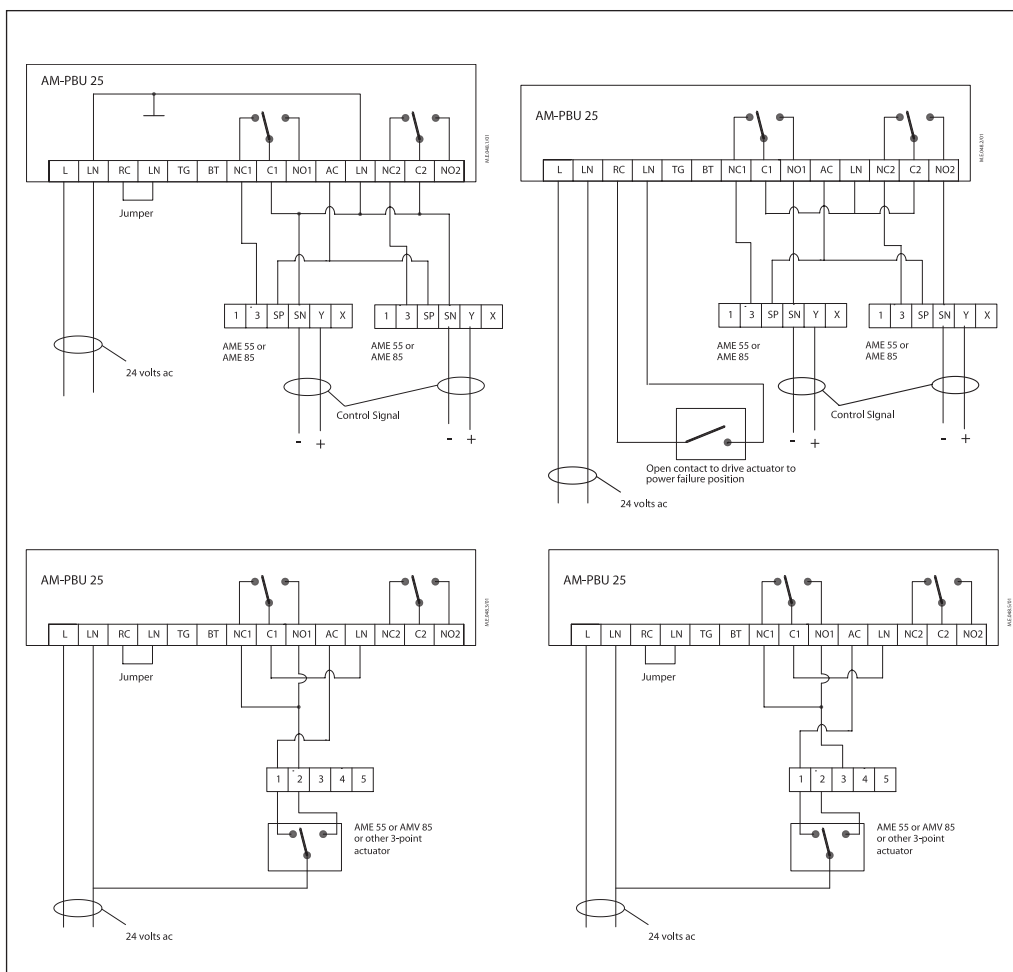
The condition of the battery can be monitored with terminals TG and BT connected to a volt meter or Building Management System (BMS).

Disposal

The product must be dismantled and the elements sorted into various material groups before disposal.

Wiring

- L 24 Vac power
- LN System neutral
- BT Battery Test
- RC Remote Control
- TG Test Ground
- C1 Common, Output 1
- NC1 Normally Closed, Output 1
- NO1 Normally Open, Output 1
- AC 24 Vac output
- C2 Common, Output 2
- NC2 Normally Closed, Output 2
- NO2 Normally Open, Output 2



The jumper between LN & RC can be replaced by a connection to a building management system (BMS), a controller, or a manual switch. When the contact opens, the building mains power is disconnected and the

AM-PBU 25 goes through a cycle, running on battery power. This feature can be used for remote control of the valve or for testing the battery. Connecting terminals TG and BT to a BMS or volt meter and taking a reading during an exercise cycle, gives a good indication of battery condition.

Connecting NC1 or NC2 to terminal 3 on the actuator drives the valve stem down on power failure; connecting NC1 or NC2 to terminal 2 drives the valve stem up on power failure.