Building Automation Switching Power Supply

DEFINITION OF MODELS

AMR2-24

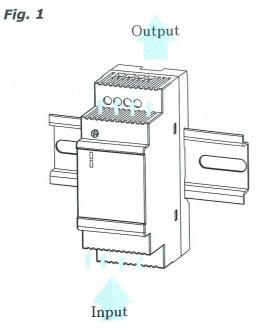
24 : Output Voltage

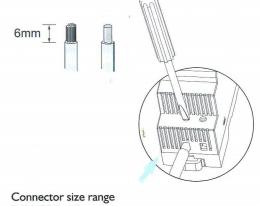
05 05V output

12.... 12V output

15.... 15V output

24 24V output





* AWG24 - 12

Fig. 3

- Connector can withstand torque at maximum 6 pound-inches

use copper conductors only, 60/75 °C Max. surrounding air temperature 50 °C for UL508



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Technical Data Installation and Operation

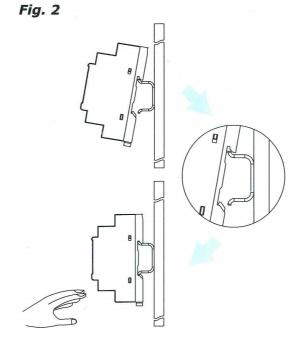
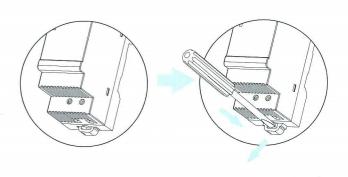


Fig. 4





/!\ Safety and warning notes

Before operation, ensure you have read and understood all the information and instructions in this leaflet.

Disconnect the system from the supply network before undertaking any installation, maintenance, modification or removal.

CAUTION! This unit is a built-in and Electrostatically Sensitive Device (ESD), so must be installed in the airtight distributor box that conform to the safety approval. The unit covers/ chassis are designed to protect only skilled personnel from hazards and must not be made user accessible.

After installation, it must be ensured that all the terminals are properly covered.

As a minimum, the following conditions must be met before operation.

- Connection to the main power supply in compliance with VDE0100.
- · All wires must be properly secured in terminal blocks.
- · Unit and power supply cables must be properly fused.
- · All output lines must be correctly rated and connected with the correct polarity.
- · Sufficient air cooling must be ensured.
- · Use in a pollution Degree 2 environment.

No modification should be made while the unit is in operation.

Only (dis) connect the plug connectors when the power is off.

Do not cover ventilation holds-leave sufficient space for cooling around the unit.

This unit contains unprotected conductors carrying a lethally high voltage. Improper usage or handling may result in electric shock or serious burns.

Do not introduce any object into the unit.

Keep away from fire and water.

Installation

MOUNTING (See Fig. 1)

Ventilation holes must be kept clear recommended min. clearance is 25mm on all sides. To mount, tilt the top of the unit backwards and clip the top edge of the lock onto the metal rail.

Tilt the bottom of the unit backwards and click into place. (Fig. 2)

REMOVAL (See Fig. 4)

To remove from the DIN rail, use an insulated screwdriver to loosen the spring as shown in fig. 4 overleaf then remove.

Connection (See Fig. 3)

Ensure that cables used are suitable for the load see technical data below. Ensure that cables are correctly stripped and fitted. Ensure correct polarity at output terminals.

INTERNAL FUSE

The internal fuse protects the unit and is not user-replaceable. In the event of an internal failure, the unit must be returned to the manufacturer.

Description	Model No.					
	AMR2-05	AMR2-12	AMR2-15	AMR2-24		
Input						
Input Internal Fuse	T2A / 250Vac					
Rated input Voltage	100Vac ~ 240Vac					

Input		(10)					
AC Voltage Range		90Vac ~	- 264Vac				
DC Voltage Range		120-375 Vdq					
Frequency	47-63Hz						
Rated input Current (max)	400mA						
Inrush Current (115Vac/230Vac)	< 25A / <50A						
Efficiency (Typ)	82%	84%	84%	85%			
Power Factor Correction		Meet EN610	00-3-2 class A				
Output							
Turn on time	< 1000ms after AC is applied to input at full resistive load						
With capacitive load	<1500ms W / 3500 <i>μ</i> F						
Voltage Rise Time	<150ms full resistive load						
With capacitive load	<500ms W / 3500 μ F						
Over voltage protection	< 6.7 Vdc	< 18 Vdc	< 22 Vdc	< 33 Vdc			
Voltage trimmer range	5-5.5 Vdc	12-14 Vdc	13.5-16.5 Vdc	24-28 Vdc			
Line regulation	<1.0%						
Load regulation	<1.0 %						
Time & temp. Drift	<1.0 %						
Initial voltage setting	5V + I %	12V + 1 %	15V + 1 %	24V + I %			
DC ON indicate(Green LED)	>3V	>9V	>11V	>20V			
DC LOW indicate(Red LED)	3.2~3.7V	8.8~9.3V	12~12.5V	21.5~22V			
Ripple		<50r	nVp-p				
Nominal Current	3A 2A 1.6A 1A						
Rated over load protection	120%~160%						
Output short circuit	Hiccup mode						
Holdup Time(230Vac)	> 80ms						
Voltage fall Time	<	<150ms from 95% to 10% rated voltage @ full load					
General				*			
Isolation Voltage	3000Vac / 4242Vdc						
Isolation Resistance	100M						
Cooling	Free air convection						
Temperature	Storage: -25 to + 85 °C , Operation: -25 to + 71 °C						
Derating	2.5%/°C from 61 to 71°C						
Humidity	20%~95% RH						
Case material	Plastic						
MAX. Required free space	25mm in all sides						
Dimensions	3.58 × 1.38 × 2.21						
H x W x D inches (mm)	(91 × 35 × 56.2)						
Weight	130g						
Approvals And Stand	dard		9000 5				
UL/cUL	UL508 Listed						
	UL1310 Class 2 power, UL 60950-1 Recognized						
TUV	EN60950-1						
	EN61000-6-3 ,EN55022 Class B						
	EN61000-3-2, EN61000-3-3						
CE	EN61000-6-2, EN55024, EN61000-4-2, EN61000-4-3, EN61000-4-4						
	EN61000-4-5,EN61000-4-6, EN61000-4-8,EN61000-4-11, EN61204-3						