

Источник питания двигателя постоянного тока AD2240MS Технические характеристики

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Acro Engineering Incorporation

AD2240MS Series 240Watts, Dual Independent Output



Dimensions: 121(D)x75(W)x110(H) mm

Features

- High power density
- Built-in cooling fan
- RoHS compliance
- 3 year warranty
- Great reliability
- DIN rail / Wall bracket mounting solution
- Over voltage protection
- Overload protection
- Short circuit protection
- Build-in O-ring diode
- Build-in CEMF damper
- High peak current (2 times of rated current)

Safety Standards



EN 60950 (Marking)

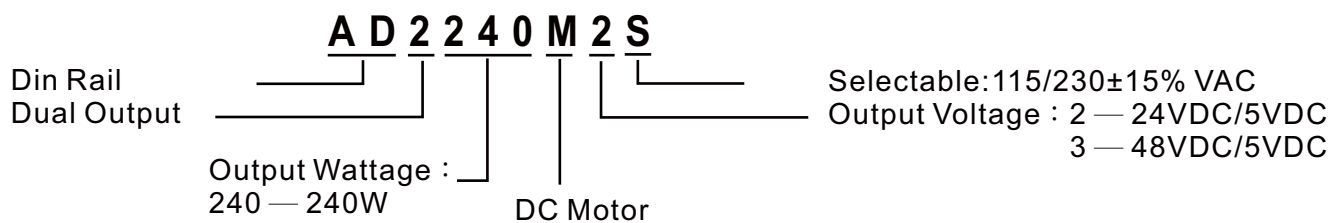
EMC Standards

EN55011	Class B
EN55022	Class B
EN61000-4-2	Level 3
EN61000-4-3	Level 3
EN61000-4-4	Level 3
EN61000-4-5	Level 3
EN61000-4-6	Level 3
EN61000-4-8	Level 3
EN61000-4-11	Level 3

Model List

Model	O/P Voltage Adjustment	Min.	Loading Rated	Peak	Ripple Noise	Efficiency	Over Voltage Protection
AD2240M2S	+24VDC±10% +5VDC -----	0A	9.0A 3.0A	18.0A 5.0A	150mVp-p 60mVp-p	80%	27~30VDC -----
AD2240M3S	+48VDC±10% +5VDC -----	0A	4.5A 3.0A	9.0A 5.0A	250mVp-p 60mVp-p	82%	52~56VDC -----

Model Encoding



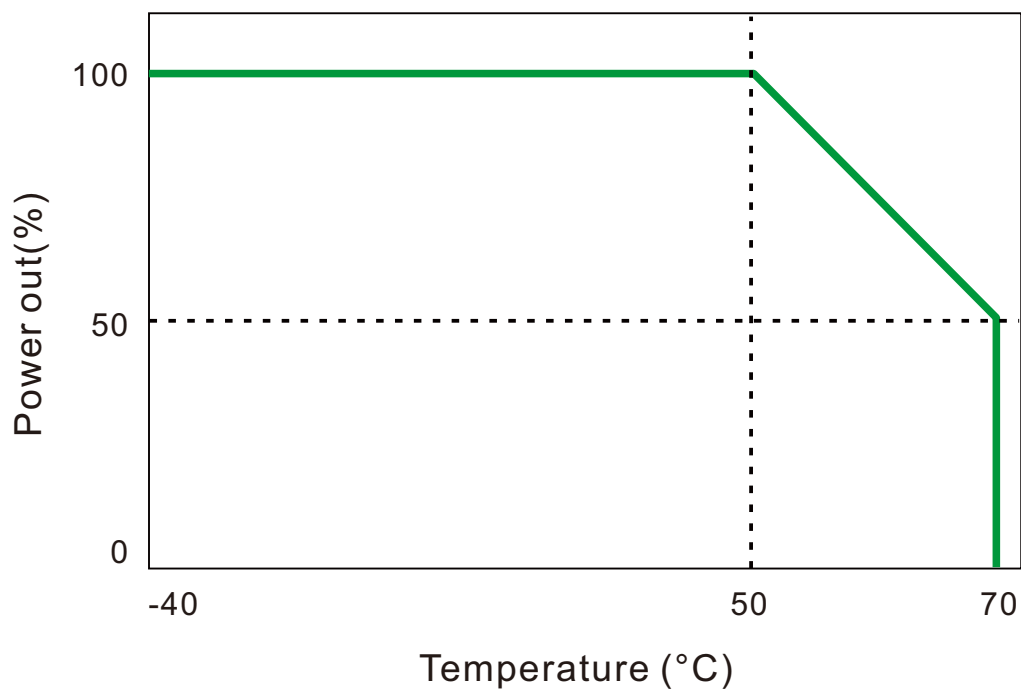
Specification

General		
Switching Frequency	85k Hz	
Isolation Voltage	Input-Output	3000 VAC/4242 VDC
	Input-FG	1500 VAC/2121 VDC
	Output-FG	500 VAC/710 VDC
Isolation Resistance	100MΩ when Input-Output @500VDC	
Operating Temperature	-40°C ~50°C ambient	
Derating	2.5% per degree from 50°C to 70°C	
Storage Temperature	-40°C to +85°C	
Relative Humidity	5%~95% RH, Non-condensing.	
Temperature Coefficient	±0.04% of output voltage per °C	
MTBF	80,000hrs Min. Per MIL-HDBK-217F, 25°C GB	
Altitude During Operation	2000m	
Installation position	Vertical	
Vibration	Random vibration, 10~500Hz, 3 axise	
Input		
Input Voltage	115~230VAC±15% selectable	
Input Frequency	47~63 HZ	
Inrush Current (cold start)	22A/115VAC 44A/230VAC	
Rated Input Current	5A Max@Vi=115VAC, 3A Max@Vi=230VAC	
Leakage Current	Input-output 0.25mA, Input-FG 3.5mA	
Output		
Output Voltage accuracy	±1%	
Minimum Load	±0%	
Line Regulation	±1%/±1%, measuring from low line to high line at rated load.	
Load Regulation	±3%/±3%, measuring from 20% to 100% of rated load at 230VAC input.	
Voltage Trim Range	±10%	
Hold Up Time	30mS Min., Full load@230VAC.	
Turn On Time	1300nS	
Rise Time	15mS	
Fall Time	30mS	

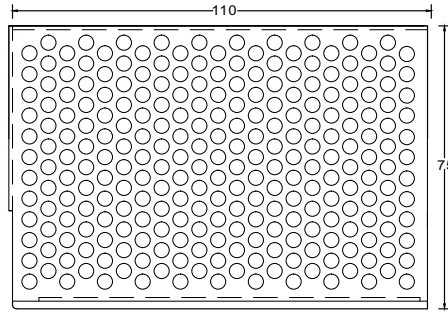
Specification

Output		
Transient Response	Recovery Time	10mS, Load change 50% to 100%.
	Voltage deviation	10%, Load change 50% to 100%.
Capacitor Load		10000uF(CAP)@ AD2240M2S.,5000uF(CAP)@ AD2240M3S
Efficiency		See model list, measuring at rated load and 230VAC input.
Ripple and Noise		See model list, measuring by using a 0.1μF/630V metalize capacitor and a 47μF electrolytic capacitor parallel on the test point, at rated load and 230VAC input.
Protection		
Input Fuse		5A/250V
Internal Surge Load Protection		Varistor, IEC6100-4-5
Degree of Protection		IP20
Short Circuit Protection		Autorecovery
Over Voltage Protection		Autorecovery
Rated Over Load Protection		180~200 %
Overload protection		Power limited

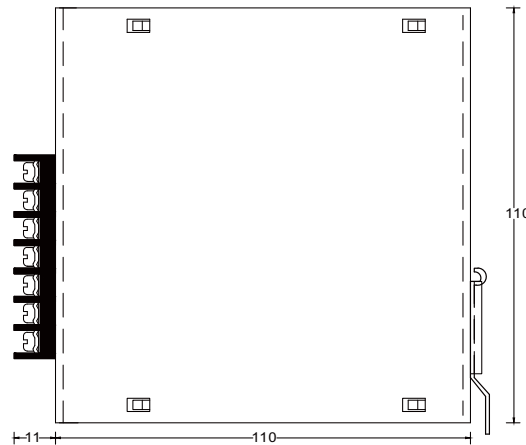
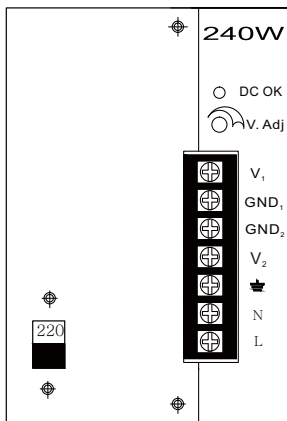
Derating Curve



Mechanical Details



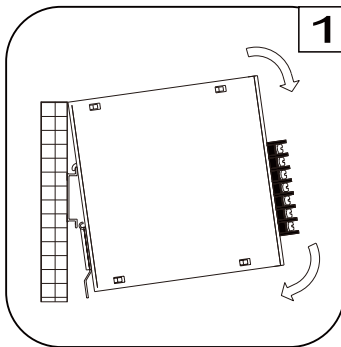
Case No.	AD240S
Dimensions	121(D)x75(W)x110(H)mm
Case Material	Metal



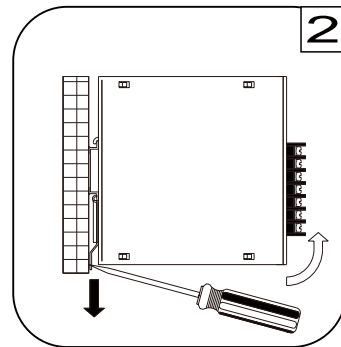
Terminal Allocation

Designation	Description
DC OK	Green LED Indicator
V Adj.	O/P Voltage adjustment
V ₁	Output Voltage 1
V ₂	Output Voltage 2
Gnd ₁	Ground 1
Gnd ₂	Ground 2
⏏	Earth
N	Input Neutral
L	Input Line

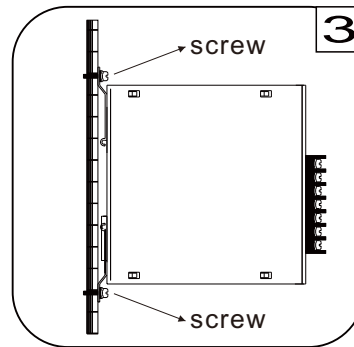
Installation instruction



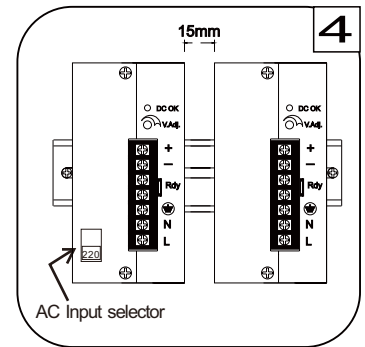
Place the top of the AD2240MS rail mount over the top of the DIN rail. Tilt the bottom of the AD2240MS toward the DIN rail until it snaps into place.



To remove AD2240MS from the DIN rail, use a flathead screwdriver to pull down the bottom of the rail mount and tilt it away from the DIN rail.



To install AD2240MS on wall/plate, loosening screws on mounting bracket and pull both brackets out first. Then re-screwing the two brackets with screws onto wall/plate.



The left housing of AD2240MS is designed as a heat sink, please keeping a minimum distance of 15mm from each other.

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