

Roxburgh RIR Series EMI Filters

Single-phase Power Entry Module with Filter and Fuse

The Roxburgh RIR Series Power Entry Modules are specifically designed as single-stage line filters for 120/240 VAC devices where fusing is desired. They provide good performance for both

common mode and differential mode interference. The filters are rated at 250V and are designed to be through-hole, flange mounted in cabinet or chassis hardware.

Features

- 0–250 VAC, 0–60 Hz, single-phase
- 2A, 4A and 6A models
- One replaceable 5mm x 20mm glass fuse included in each module
- One spare 5mm x 20mm glass fuse included in each module fuse tray
- Metal case, miniature type
- Through-hole flange mount
- 1/4in quick disconnect terminals

Filter performance curves are available on item page at www.AutomationDirect.com

Applications

- Ideally suited for products that must conform to part 15, FCC regulations
- Digital electronics
- Personal computers and peripherals
- Measuring instruments
- Small equipment applications
- Monitors and display units

Standards and Certifications



RIR Module



RIR Module with fuse tray removed



RIR Module Protective Sleeve SLV48

RIR Power Entry Modules		
Part Number	Price	Description
RIR-0222-H		IEC Inlet Filter 120/240 VAC, 1-ph, 2A, Fused
RIR-0422-H		IEC Inlet Filter 120/240 VAC, 1-ph, 4A, Fused
RIR-0622-H		IEC Inlet Filter 120/240 VAC, 1-ph, 6A, Fused
SLV48		Protective boot for RIR series

General Specifications	
Voltage Rating	0–240V AC/DC 0–60 Hz
Voltage Max.	250V
Voltage Withstand	1500 VAC
Phase	1
UL/IEC Pollution Class	Degree II
Humidity	93% RH (non-condensing)
Overload Current	135% 2 hrs, 150% 60s
Insulation Resistance	500 VDC >3.5 MΩ
Climate Class (IEC 60068-1)	-25/85/21
Temperature Rating	-13 to +185 °F [-25 to +85°C]
Flammability (UL94)	V-0
Material	Tin Plated Steel
Altitude*	1000m (3000m with derating)
Mounting Clearance	>50mm Gap
Agency Approval**	CE (EN 60939-1), UR: File# E191581 (Standard: UL1283), CSA: File# 207414 (Standard: C22.2 No.8)

* Derate 1% per 100m after 1000m; Max 3000m.

**To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific component part number web page.

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Specifications			
Parameter	<i>RIR-0222-H</i>	<i>RIR-0422-H</i>	<i>RIR-0622-H</i>
Max. Power (kW)	0.5	1	1.5
Current Rating (A)	2	4	6
SCCR Rating (kA)	5		
Ingress Protection	IP20		
Temp Rise	30 °C		
Terminal Type	1/4in quick disconnect		
Operation Leakage Current (mA)	0.35		
Total Resistance, Line to Load (mΩ)	500	250	170
Residual Voltage (V @ 5s)	1V @ 5s		
Heat Dissipation (W)	2	4	6.12
Weight (lb [kg])	0.17 [0.78]		

Dimensions

mm [inches]

