

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

- 0-250VAC, 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
- 1/4 inch 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 | \$10.00 | IEC Inlet Filter 120/240VAC, 1-ph, 2A, Fused |
| RIR-0422-H | \$10.00 | IEC Inlet Filter 120/240VAC, 1-ph, 4A, Fused |
| RIR-0622-H | \$10.00 | IEC Inlet Filter 120/240VAC, 1-ph, 6A, Fused |
| SLV48 | \$2.29 | Protective boot for RIR series |

| General Specifications | |
|------------------------------------|---|
| Voltage Rating | 0-240V AC/DC 0-60 Hz |
| Voltage Max. | 250V |
| Voltage Withstand | 1500VAC |
| Phase | 1 |
| UL/IEC Pollution Class | Degree II |
| Humidity | 93% RH (non-condensing) |
| Overload Current | 135% 2 hrs, 150% 60s |
| Insulation Resistance | 500VDC >3.5 M Ohms |
| 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.

Roxburgh RIR Series EMI Filters

| Specifications | | | |
|-------------------------------------|-----------------------|------------|------------|
| Parameter | RIR-0222-H | RIR-0422-H | RIR-0622-H |
| 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 | 1/4" 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, lbs (kg) | 0.17 (0.78) | | |

Dimensions

mm [inches]

