Roxburgh RID Series EMI Filters

Single-phase Power Entry Module with Filter

The Roxburgh RID Series Power Entry Modules are general purpose single-stage filters specifically designed as line filters for 120/240 VAC devices. They provide good performance for both common mode and differential mode interference and are rated at 250V. These filters are designed to be through-hole mounted in a cabinet or enclosure.

Features

- Rated at 0–250 VAC, 0–60 Hz, single-phase
- 1A–10A models
- Metal case, miniature type
- Through-hole mount flange
- 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 devices

Standards and Certifications

*** RID-1042-H is not CSA**



RID Module



RID Module Protective Sleeve SLV45

RID Power Entry Modules		
Part Number	***Price***	***Description***
RID-0142-H		IEC Inlet Filter 120/240 VAC, 1-ph, 1A
RID-0342-H		IEC Inlet Filter 120/240 VAC, 1-ph, 3A
RID-0642-H		IEC Inlet Filter 120/240 VAC, 1-ph, 6A
RID-1042-H		IEC Inlet Filter 120/240 VAC, 1-ph, 10A
SLV45		Protective Boot For RID 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**	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	*RID-0142-H*	*RID-0342-H*	*RID-0642-H*	*RID-1042-H*
Power (kW)	0.25	0.75	1.5	2.5
Current Rating (A)	1	3	6	10
SCCR Rating (kA)	5			
Ingress Protection	IP20			
Temperature Rise	30°C		45°C	
Terminal Style	1/4in quick disconnect			
Operational Leakage Current (mA)	0.35			
Total Resistance, Line to Load (mΩ)	1000	300	170	1000
Residual Voltage (V @ 5s)	1V @ 5s			
Heat Dissipation (W)	1	2.7	6.12	100
Weight, lbs (kg)	0.1 (0.45)			

Dimensions

mm [inches]

