Roxburgh RES90 Series EMI Filters

Single-phase Drive Rated EMI Filters

The Roxburgh RES90 Series filters feature excellent attenuation performance suitable for noisy applications where increased filter performance is required. They are specifically designed as line filters for single-phase 120/240V AC and DC drives.

Features

- 0-240VAC/DC, 0-400 Hz, single-phase
- 1A 30A models
- Very high performance type in a metal case
- 1/4" quick connect or screw terminals
- Panel mount
- Filter performance curves are available on item page at <u>www.AutomationDirect.com</u>

Applications

- Ideally suited for products that must conform to part 15, FCC regulations
- Single-phase AC and DC drives
- Digital electronics
- Personal computers and peripherals
- Office automation
- Building automation
- Monitors and display units
- Household and consumer devices
- Machinery design

Standards and Certifications

differential and common mode attenuation rated up to 250V. The

filters can be integrally mounted in cabinet or chassis hardware.

Available in 1/4" quick disconnect type (RES90F) and screw

RES90 Series are a multi-stage EMC filter with very high

terminal type (RES90S).





RES90 EMI Filters							
Part Number	Price	Description					
<u>RES90F01</u>	\$20.00	EMI Input filter, 1-phase 120/240VAC, multi-stage drive grade, 1A					
<u>RES90F03</u>	\$23.50	EMI Input filter, 1-phase 120/240VAC, multi-stage drive grade, 3A					
<u>RES90F06</u>	\$34.50	EMI Input filter, 1-phase 120/240VAC, multi-stage drive grade, 6A					
<u>RES90F10</u>	\$50.00	EMI Input filter, 1-phase 120/240VAC, multi-stage drive grade, 10A					
<u>RES90F16</u>	\$53.00	EMI Input filter, 1-phase 120/240VAC, multi-stage drive grade, 16A					
<u>RES90S20</u>	\$66.00	EMI Input filter, 1-phase 120/240VAC, multi-stage drive grade, 20A					
<u>RES90S30</u>	\$85.00	EMI Input filter, 1-phase 120/240VAC, multi-stage drive grade, 30A					

General Specifications								
Voltage Rating	0-240V AC/DC, 0-400 Hz							
Voltage Max.	250V							
Voltage Withstand	3000VDC/2 sec							
Phase	1							
UL/IEC Pollution Class	Degree II							
Humidity	93% RH (non-condensing)							
Overload Current	135% 2Hrs, 150% 60s							
Insulation Resistance	500VDC >3.5 MΩ							
Climate Class (IEC 60068-1)	25/100/21							
Temperature Rise	60°C							
Temperature Rating	-13 to 212°F (-25 to 100°C)							
Flammability (UL94)	V-2							
Case Material	Nickel Plated Steel							
Altitude*	1000m (3000m with derating)							
Mounting Clearance	>50mm Gap							
Agency Approval**	cURus: File# E191581 (Standard: UL1283 & 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.

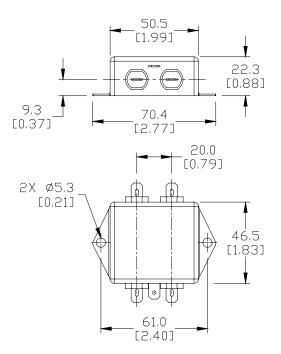
1-800-633-0405 For the latest prices, Roxburgh RES90 Series EMI Filters

Specifications											
Parameter	<u>RES90F01</u>	<u>RES90F03</u>	RES90F06	<u>RES90F10</u>	<u>RES90F16</u>	<u>RES90S20</u>	<u>RES90S30</u>				
Max. Power (kW)	0.25	0.75	1.5	2.5	4	5	7.5				
Current Rating (A)	1	3	6	10	16	20	30				
SCCR Rating (kA)	5										
Ingress Protection	IP20										
Terminal Style		1	M4 Stud								
Torque (Ib·in [N·m])	N/A						11.5 [1.3]				
Operational Leakage Current (mA)	0.5 0.			67		1.02					
Total Resistance (Line to Load) (m Ω)	750	250	100	500	15	50	300				
Residual Voltage (V@5s)	1V@5s										
Heat Dissipation (W)	0.75	2.25	3.6	5	12.8	20	7.2				
Weight (lb [kg])	0.18 [0.08] 0.44 [0.20]			1.0 [0.45]	0.92 [0.42]		1.2 [0.55]				

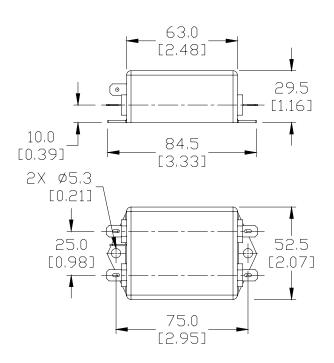
Dimensions

mm [inches]

RES90F01



RES90F03 RES90F06



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Dimensions

RES90F10 RES90F16

mm [inches]

