

# Roxburgh KMFV Series EMI Filters

## Three-phase Drive Rated EMI Filters up to 600V - High Performance

The KMFV high performance, two-stage, three-phase industrial filters are designed for industrial drives applications in harsh environments such as the petrochemical industry. The Roxburgh KMFV Series filters are specifically designed as a line filter for

3-phase, 575VAC devices. They provide good performance for both common mode and differential mode interference and are rated up to 600V. The filters are designed to be mounted in a cabinet.

### Features

- 0-600 VAC, 0-60 Hz, 3-phase
- 6A- 36A models
- Metal case
- Screw terminals
- Separate GND lug
- Panel mount, horizontal or vertical

Filter performance curves are available on item page at [www.AutomationDirect.com](http://www.AutomationDirect.com)

### Applications

- Ideally suited for products that must conform to part 15, FCC regulations
- Industrial AC drives
- Digital electronics

### Standards and Certifications



KMFV EMI Filters		
Part Number	Price	Description
<a href="#">KMF306V</a>	\$109.00	EMI Input Filter for 3-phase AC drives, 575VAC, 6A
<a href="#">KMF310V</a>	\$284.00	EMI Input Filter for 3-phase AC drives, 575VAC, 10A
<a href="#">KMF318V</a>	\$138.00	EMI Input Filter for 3-phase AC drives, 575VAC, 18A
<a href="#">KMF325V</a>	\$165.00	EMI Input Filter for 3-phase AC drives, 575VAC, 25A
<a href="#">KMF336V</a>	\$212.00	EMI Input Filter for 3-phase AC drives, 575VAC, 36A

Filter General Specifications	
<b>Voltage Rating</b>	600VAC
<b>Voltage Max.</b>	630V
<b>Voltage Withstand</b>	3100VDC/ 60 secs.
<b>Phase</b>	3
<b>UL/IEC Pollution Class</b>	Degree II
<b>Humidity</b>	93% RH (non-condensing)
<b>Overload Current</b>	135% 2Hrs, 150% 60s
<b>Insulation Resistance</b>	500V DC, >3.5M Ohms
<b>Climate Class (IEC 60068-1)</b>	-25/85/21
<b>Temperature Rise</b>	45°C
<b>Temperature Rating</b>	-13 to 185°F, -25 to 85°C
<b>Flammability (UL94)</b>	V-2
<b>Case Material</b>	Aluminum
<b>Altitude*</b>	1000m (3000m with derating)
<b>Mounting Clearance</b>	≥50mm gap
<b>Agency Approval**</b>	CE (EN 60939-1), 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.

# Roxburgh KMFV Series EMI Filters

Specifications						
	Parameter	<u>KMF306V</u>	<u>KMF310V</u>	<u>KMF318V</u>	<u>KMF325V</u>	<u>KMF336V</u>
	<b>Max Power kW (max/ph)</b>	6.2 (1.4)	10.4 (2.4)	18.7 (4.3)	26 (6)	37 (8.6)
	<b>Current Rating (A)</b>	6	10	18	25	36
	<b>SCCR Rating (kA)</b>	5				
	<b>Ingress Protection</b>	IP20				
<b>GND Terminal</b>	<b>Terminal Style</b>	M5x15 Stud (SS)				M6x20 Stud (SS)
	<b>Torque, lb·in (N·m)</b>	17.7 (2)				35.4 (4)
	<b>Ring Terminal Size</b>	M5 (#10)				M6 (1/4)
<b>Wire Terminal</b>	<b>Terminal Style</b>	Screw				
	<b>Torque, lb·in (N·m)</b>	7 (0.8)		17.7 (2)		
	<b>Max Wire Gauge (AWG)</b>	10		8		
	<b>Operational Leakage Current (mA)</b>	6		19.8		26.4
	<b>Total Resistance, Line to Load (mΩ/ph)</b>	33	14	11.4	4.2	4.12
	<b>Residual Voltage (V@5s)</b>	48V@5s		306V@5s	305V@5s	299V@5s
	<b>Heat Dissipation (W/ph)</b>	1.2	1.4	3.7	2.6	5.34
	<b>Weight lbs. (kg)</b>	1.1 (0.5)	1.5 (0.7)	3.5 (1.6)	4.2 (1.9)	4.8 (2.2)

Temperature Derating Chart above 40°C*										
	Part Number	Ambient °C								
		40	45	50	55	60	65	70	75	80
<b>Continuous Ampacity at Ambient °C</b>	<u>KMF306V</u>	6.00	5.60	5.19	4.76	4.31	3.82	3.28	2.65	1.86
	<u>KMF310V</u>	10.00	9.34	8.65	7.94	7.18	6.36	5.46	4.42	3.10
	<u>KMF318V</u>	18.00	16.81	15.57	14.29	12.92	11.45	9.83	7.96	5.58
	<u>KMF325V</u>	25.00	23.34	21.63	19.84	17.95	15.91	13.66	11.05	7.75
	<u>KMF336V</u>	36.00	24.28	22.50	20.63	18.66	16.55	14.20	11.50	8.06

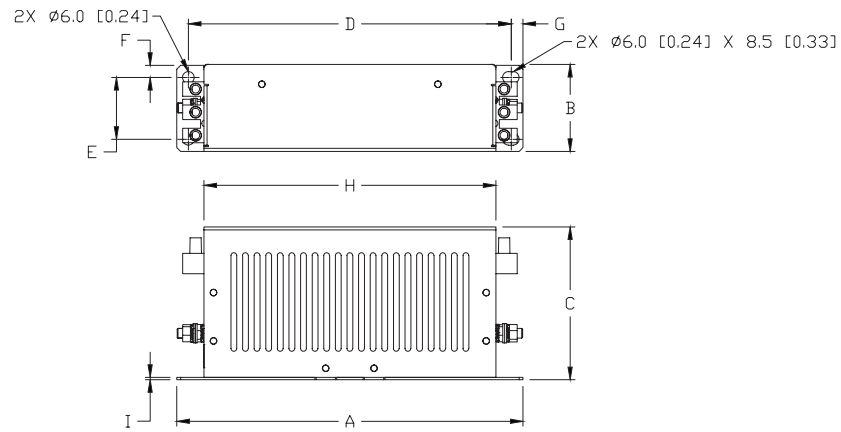
\*NOTE: Using these filters above 40°C would comprise a non-UL application of device.

# Roxburgh KMFV Series EMI Filters

## Dimensions

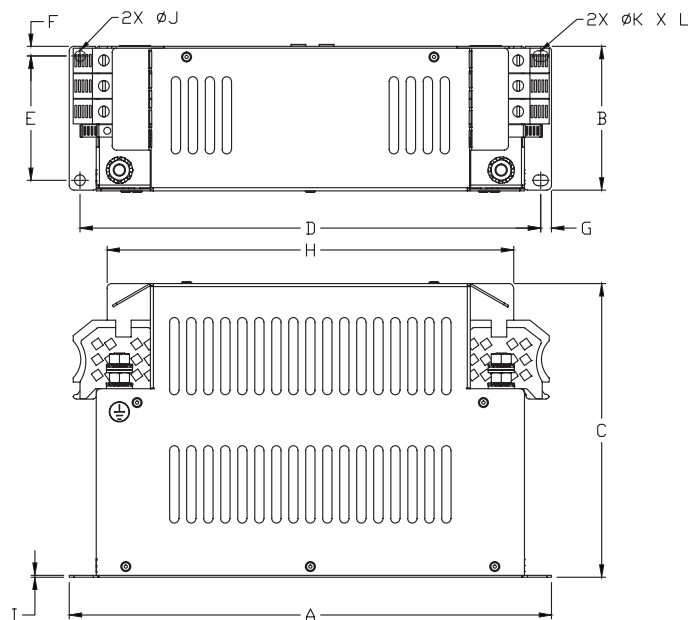
mm [inches]

**KMF306V**  
**KMF310V**  
**KMF318V**  
**KMF325V**



PART NUMBER	A	B	C	D	E	F	G	H	I
KMF306V	179.0 [7.04]	45.0 [1.77]	79.0 [3.11]	167.0 [6.57]	32.0 [1.26]	6.3 [0.25]	6.3 [0.25]	151.0 [5.94]	1.2 [0.05]
KMF310V	179.0 [7.04]	45.0 [1.77]	79.0 [3.11]	167.0 [6.57]	32.0 [1.26]	6.3 [0.25]	6.3 [0.25]	151.0 [5.94]	1.2 [0.05]
KMF318V	229.0 [9.01]	55.2 [2.17]	115.5 [4.55]	217.0 [8.54]	42.0 [1.65]	5.6 [0.22]	6.0 [0.24]	201.0 [7.91]	1.2 [0.05]
KMF325V	229.0 [9.01]	55.2 [2.17]	115.5 [4.55]	217.0 [8.54]	42.0 [1.65]	5.6 [0.22]	6.0 [0.24]	201.0 [7.91]	1.2 [0.05]

**KMF336V**



PART NUMBER	A	B	C	D	E	F	G	H	I	ØJ	ØK	L
KMF336V	272.0 [10.70]	73.2 [2.88]	162.2 [6.38]	258.0 [10.15]	60.0 [2.36]	5.9 [0.23]	7.0 [0.28]	226.0 [8.89]	1.2 [0.05]	6.5 [0.26]	6.5 [0.26]	9.5 [0.37]