

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

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
<u>KMF306V</u>	\$;-010j[:	EMI Input Filter for 3-phase AC drives, 575VAC, 6A
<u>KMF310V</u>	\$-010j_:	EMI Input Filter for 3-phase AC drives, 575VAC, 10A
<u>KMF318V</u>	\$-010j#:	EMI Input Filter for 3-phase AC drives, 575VAC, 18A
<u>KMF325V</u>	\$;-010j!:	EMI Input Filter for 3-phase AC drives, 575VAC, 25A
<u>KMF336V</u>	\$-010j?:	EMI Input Filter for 3-phase AC drives, 575VAC, 36A

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

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Specifications						
	Parameter	KMF306V	KMF310V	KMF318V	KMF325V	KMF336V
	Max Power kW (max/ph)	6.2 (1.4)	10.4 (2.4)	18.7 (4.3)	26 (6)	37 (8.6)
	Current Rating (A)	6	10	18	25	36
	SCCR Rating (kA)	5				
	Ingress Protection	IP20				
GND Terminal	Terminal Style	M5x15 Stud (SS)				M6x20 Stud (SS)
	Torque, lb·in (N·m)	17.7 (2)				35.4 (4)
	Ring Terminal Size	M5 (#10)				M6 (1/4)
Wire Terminal	Terminal Style	Screw				
	Torque, lb·in (N·m)	7 (0.8)		17.7 (2)		
	Max Wire Gauge (AWG)	10		8		
	Operational Leakage Current (mA)	6		19.8		26.4
	Total Resistance, Line to Load (mΩ/ph)	33	14	11.4	4.2	4.12
	Residual Voltage (V@5s)	48V@5s		306V@5s	305V@5s	299V@5s
	Heat Dissipation (W/ph)	1.2	1.4	3.7	2.6	5.34
	Weight lbs. (kg)	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
Continuous Ampacity at Ambient °C	KMF306V	6.00	5.60	5.19	4.76	4.31	3.82	3.28	2.65	1.86
	KMF310V	10.00	9.34	8.65	7.94	7.18	6.36	5.46	4.42	3.10
	KMF318V	18.00	16.81	15.57	14.29	12.92	11.45	9.83	7.96	5.58
	KMF325V	25.00	23.34	21.63	19.84	17.95	15.91	13.66	11.05	7.75
	KMF336V	36.00	24.28	22.50	20.63	18.66	16.55	14.20	11.50	8.06

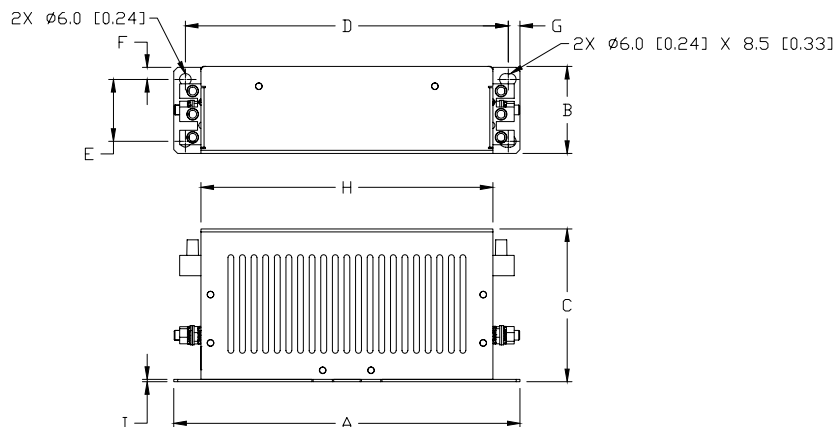
*NOTE: Using these filters above 40°C would comprise a non-UL application of device.

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Dimensions

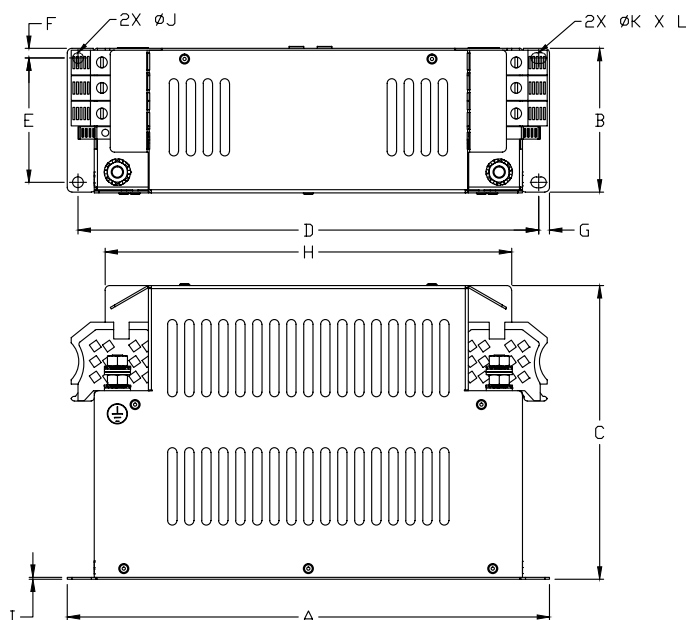
mm [inches]

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]