

# Type RF EMI/RFI

## Product Selector



- **Meet EMC Directives (Class A) and FCC limits for conducted noise emissions**
- **Reduce common mode and differential mode noise emissions**
- **Protect sensitive loads from EMI/RFI**
- **Use on input side of a VFD or inverter**

## The quiet solution to noise issues.

Our Type RF Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI) filters are designed to help your system meet Electromagnetic Compatibility (EMC) requirements. They provide sufficient attenuation of the conducted EMI and RFI associated with Variable Frequency Drives (VFDs) and inverter applications. Typically used with AC and DC Motor drives, Uninterruptible Power Supplies, and Active Harmonic Filters, the Type RF EMI/RFI filters provide an economical solution to facility interference problems caused by RF emissions.

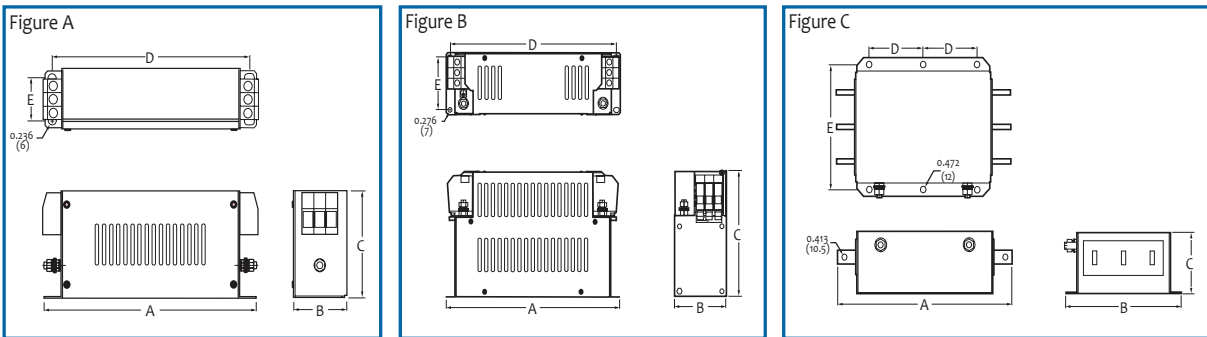
Say goodbye to voltage distortion and electrical noise caused by RF emissions with the Type RF EMI/RFI filter from MTE.

# Solve electrical noise problems and protect your sensitive loads with Type RF EMI/RFI Filters.

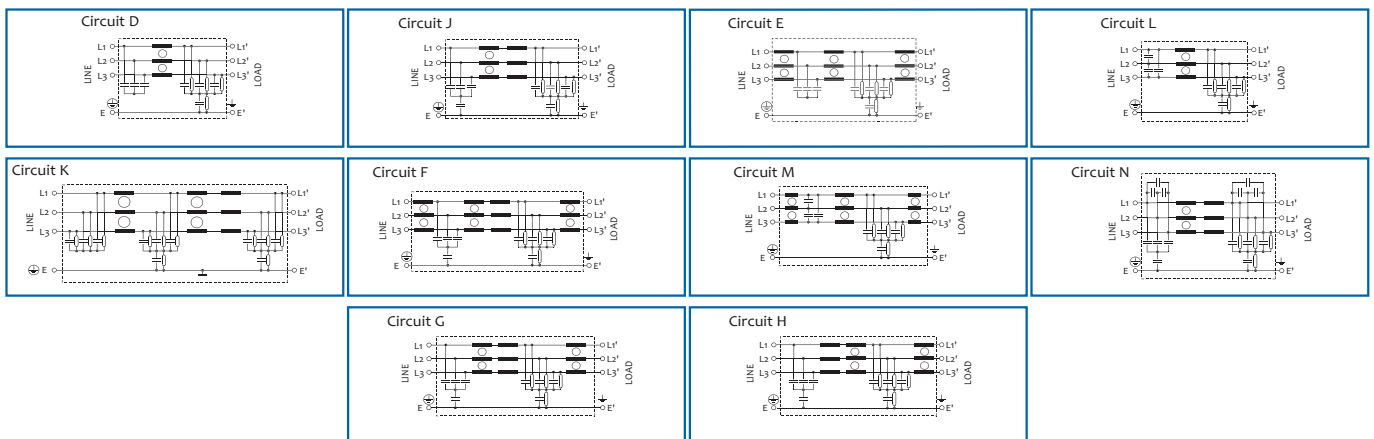
MTE Part Number	Ref Fig	Circuit Fig	Rated Amps	SCCR Rating	A (in)	A (mm)	B (in)	B (mm)	C (in)	C (mm)	D (in)	D (mm)	E (in)	E (mm)	Weight (lbs)	Mass (kg)	Diss. Watts	Max Wired Size AWG (mm <sup>2</sup> )	Leakage Current (mA)
<b>480V 50/60Hz</b>																			
RF3-0006-4	A	D	6	5	7.0	179	1.8	45	3.1	79	6.57	167	1.26	32	1.4	0.65	3.5	11 (4)	3.3
RF3-0010-4	A	D	10	5	7.0	179	1.8	45	3.1	79	6.57	167	1.26	32	1.5	0.7	4.2	11 (4)	3.1
RF3-0018-4	A	D	18	5	9.0	229	2.2	55	4.5	114	8.54	217	1.65	42	2.4	1.1	11	7 (10)	3.3
RF3-0025-4	A	E	25	5	9.0	229	2.2	55	4.5	114	8.54	217	1.65	42	2.9	1.3	11	7 (10)	6.3
RF3-0033-4	B	F	33	5	10.7	272	2.9	73	6.4	162	10.16	258	2.36	60	4.2	1.9	16	7 (10)	17.6
RF3-0050-4	B	F	50	10	12.3	312	3.7	94	7.5	190	11.73	298	3.11	79	8.2	3.3	16	1 (35)	22.8
RF3-0070-4	B	F	70	10	12.3	312	3.7	94	7.5	190	11.73	298	3.11	79	8.6	3.9	19	1 (35)	21.4
RF3-0090-4	B	G	90	10	12.3	312	3.7	94	7.5	190	11.73	298	3.11	79	9.0	4.1	18	1 (35)	30.6
RF3-0130-4	B	H	130	18	12.6	319	5.0	126	8.8	224	11.73	298	4.41	112	13.5	6.1	25	000 (70)	21.7
RF3-0150-4	B	J	150	18	13.1	334	5.0	126	8.8	224	11.73	298	4.41	112	19.6	8.9	28	0000 (95)	27.6
RF3-0330-4	C	K	330	30	15.2	386	10.2	260	4.6	116	4.72	120	9.25	235	24.3	11	40	N/A	7.2
<b>600V 50/60Hz</b>																			
RF3-0006-6	A	L	6	5	7.2	183	1.8	45	3.1	79	6.57	167	1.26	32	1.4	0.65	3.5	9 (6)	2.9
RF3-0010-6	A	L	10	5	7.2	183	1.8	45	3.1	79	6.57	167	1.26	32	1.5	0.7	4.2	9 (6)	2.9
RF3-0018-6	A	L	18	5	9.2	233	2.2	55	4.5	114	8.54	217	1.65	42	2.4	1.1	11	9 (6)	9.6
RF3-0025-6	A	M	25	5	9.2	233	2.2	55	4.5	114	8.54	217	1.65	42	2.9	1.3	11	9 (6)	9.6
RF3-0033-6	B	F	33	5	10.7	272	2.9	73	6.4	162	10.16	258	2.36	60	4.4	2.0	16	7 (10)	26.4
RF3-0050-6	B	F	50	10	12.3	312	3.7	94	7.5	190	11.73	298	3.11	79	8.2	3.3	16	1 (35)	39.7
RF3-0070-6	B	F	70	10	12.3	312	3.7	94	7.5	190	11.73	298	3.11	79	8.8	4.0	19	1 (35)	39.7
RF3-0090-6	B	G	90	10	12.3	312	3.7	94	8.8	190	11.73	298	3.11	79	8.8	4.0	19	1 (35)	39.7
RF3-0130-6	B	N	130	18	13.1	334	5.0	126	8.8	224	11.73	298	4.41	112	19.3	8.9	28	000 (70)	27.5
RF3-0150-6	B	N	150	18	13.1	334	5.0	126	8.8	224	11.73	298	4.41	112	19.6	8.9	28	0000 (95)	27.5
RF3-0330-6	C	K	330	30	15.2	386	10.2	260	4.6	116	4.72	120	9.25	235	24.3	11	40	N/A	19.2

Note: Weights and dimensions are for reference only. Please visit [mtecorp.com](http://mtecorp.com) for detailed information.

## REF FIGURES



## CIRCUIT FIGURES



HP	kW	Installation WITHOUT an Input Line Reactor					
		208V	240V	380V	400V/415V	480V	600V
1	0.75	RF3-0006-4	RF3-0006-4	RF3-0006-4	RF3-0006-4	RF3-0006-4	RF3-0006-6
1.5	1.12	RF3-0010-4	RF3-0010-4	RF3-0006-4	RF3-0006-4	RF3-0006-4	RF3-0006-6
2	1.5	RF3-0018-4	RF3-0010-4	RF3-0006-4	RF3-0006-4	RF3-0006-4	RF3-0006-6
3	2.2	RF3-0018-4	RF3-0018-4	RF3-0010-4	RF3-0010-4	RF3-0010-4	RF3-0006-6
5	3.7	RF3-0025-4	RF3-0025-4	RF3-0018-4	RF3-0018-4	RF3-0010-4	RF3-0010-6
7.5	5.5	RF3-0033-4	RF3-0033-4	RF3-0018-4	RF3-0018-4	RF3-0018-4	RF3-0018-6
10	7.5	RF3-0050-4	RF3-0050-4	RF3-0025-4	RF3-0025-4	RF3-0025-4	RF3-0018-6
15	11.25	RF3-0070-4	RF3-0070-4	RF3-0050-4	RF3-0033-4	RF3-0033-4	RF3-0025-6
20	15	RF3-0090-4	RF3-0090-4	RF3-0050-4	RF3-0050-4	RF3-0050-4	RF3-0033-6
25	18.5	RF3-0130-4	RF3-0130-4	RF3-0070-4	RF3-0050-4	RF3-0050-4	RF3-0050-6
30	22.5	RF3-0130-4	RF3-0130-4	RF3-0070-4	RF3-0070-4	RF3-0070-4	RF3-0050-6
40	30	RF3-0330-4	RF3-0150-4	RF3-0090-4	RF3-0090-4	RF3-0090-4	RF3-0070-6
50	37.5	RF3-0330-4	RF3-0330-4	RF3-0130-4	RF3-0130-4	RF3-0090-4	RF3-0070-6
60	45	RF3-0330-4	RF3-0330-4	RF3-0130-4	RF3-0130-4	RF3-0130-4	RF3-0090-6
75	56.3	RF3-0330-4	RF3-0330-4	RF3-0330-4	RF3-0150-4	RF3-0150-4	RF3-0130-6
100	75	--	RF3-0330-4	RF3-0330-4	RF3-0330-4	RF3-0330-4	RF3-0130-6
125	93.8	--	--	RF3-0330-4	RF3-0330-4	RF3-0330-4	RF3-0330-6
150	112.5	--	--	RF3-0330-4	RF3-0330-4	RF3-0330-4	RF3-0330-6
200	150	--	--	--	--	RF3-0330-4	RF3-0330-6
250	187.5	--	--	--	--	--	--
300	225	--	--	--	--	--	--

HP	kW	Installation WITH an Input Line Reactor (≥ 3% Impedance)					
		208V	240V	380V	400V/415V	480V	600V
1	0.75	RF3-0006-4	RF3-0006-4	RF3-0006-4	RF3-0006-4	RF3-0006-4	RF3-0006-6
1.5	1.12	RF3-0006-4	RF3-0006-4	RF3-0006-4	RF3-0006-4	RF3-0006-4	RF3-0006-6
2	1.5	RF3-0010-4	RF3-0010-4	RF3-0006-4	RF3-0006-4	RF3-0006-4	RF3-0006-6
3	2.2	RF3-0018-4	RF3-0010-4	RF3-0010-4	RF3-0006-4	RF3-0006-4	RF3-0006-6
5	3.7	RF3-0018-4	RF3-0018-4	RF3-0010-4	RF3-0010-4	RF3-0010-4	RF3-0006-6
7.5	5.5	RF3-0025-4	RF3-0025-4	RF3-0018-4	RF3-0018-4	RF3-0018-4	RF3-0010-6
10	7.5	RF3-0033-4	RF3-0033-4	RF3-0018-4	RF3-0018-4	RF3-0018-4	RF3-0018-6
15	11.25	RF3-0050-4	RF3-0050-4	RF3-0025-4	RF3-0025-4	RF3-0025-4	RF3-0018-6
20	15	RF3-0070-4	RF3-0070-4	RF3-0033-4	RF3-0033-4	RF3-0033-4	RF3-0025-6
25	18.5	RF3-0090-4	RF3-0090-4	RF3-0050-4	RF3-0050-4	RF3-0050-4	RF3-0033-6
30	22.5	RF3-0130-4	RF3-0090-4	RF3-0070-4	RF3-0050-4	RF3-0050-4	RF3-0033-6
40	30	RF3-0130-4	RF3-0130-4	RF3-0070-4	RF3-0070-4	RF3-0070-4	RF3-0050-6
50	37.5	RF3-0150-4	RF3-0150-4	RF3-0090-4	RF3-0090-4	RF3-0070-4	RF3-0070-6
60	45	RF3-0330-4	RF3-0330-4	RF3-0130-4	RF3-0090-4	RF3-0090-4	RF3-0070-6
75	56.3	RF3-0330-4	RF3-0330-4	RF3-0130-4	RF3-0130-4	RF3-0130-4	RF3-0090-6
100	75	RF3-0330-4	RF3-0330-4	RF3-0330-4	RF3-0150-4	RF3-0130-4	RF3-0130-6
125	93.8	--	RF3-0330-4	RF3-0330-4	RF3-0330-4	RF3-0330-4	RF3-0130-6
150	112.5	--	--	RF3-0330-4	RF3-0330-4	RF3-0330-4	RF3-0150-6
200	150	--	--	RF3-0330-4	RF3-0330-4	RF3-0330-4	RF3-0330-6
250	187.5	--	--	--	--	RF3-0330-4	RF3-0330-6
300	225	--	--	--	--	--	RF3-0330-6

Note: Higher ratings may be accomplished by connecting two or more filters in parallel. Please visit [mtecorp.com](http://mtecorp.com) for detailed information.

**Insertion Loss** - Insertion loss data illustrates the typical reduction of both common mode and differential mode noise (based on the standard test circuit). Common mode noise occurs between a phase or neutral conductor and ground, while differential mode noise occurs between phase conductors or between phase and neutral conductors.

## 6A to 330A Rated

Common Mode —————  
Differential Mode - - - - -

