

# Selection Guide: 3-phase filters, 8-180 Amps

(Type B84143AxxxxR105 and R021)






EMI/RFI filters are selected based on system voltage and line current. The full load current ratings for motor drives vary by manufacturer and application. Verify your equipment full load current and voltage ratings, and then make the appropriate filter selection.

	200-240 V (Typical HP)	380-415 V (Typical HP)	440-480 V (Typical HP)	600 V (Typical HP)	690 V (Typical HP)
Type	B84143A	B84143A	B84143A	B84143A	B84143A
Amperes (continuous) at 40° C					
8	0008R105 (1-2HP)	0008R105 (1-3HP)	0008R105 (1-5HP)	N/A	N/A
16	0016R105 (3-5HP)	0016R105 (5-10HP)	0016R105 (7.5-10HP)	N/A	N/A
25	0025R105 (5-7.5HP)	0025R105 (10-15HP)	0025R105 (15-20HP)	0025R021 (10-20HP)	0025R021 (10-25HP)
36	0036R105 (10HP)	0036R105 (15-25HP)	0036R105 (20-25HP)	0036R021 (25-30HP)	0036R021 (30-40HP)
50	0050R105 (15-20HP)	0050R105 (25-30HP)	0050R105 (30-40HP)	0050R021 (40-50HP)	0050R021 (50-60HP)
66	0066R105 (20-25HP)	0066R105 (30-40HP)	0066R105 (40-50HP)	N/A	N/A
80	N/A	N/A	N/A	0080R021 (60-75HP)	0080R021 (75-100HP)
90	0090R105 (25-30HP)	0090R105 (50-60HP)	0090R105 (60-75HP)	N/A	N/A
120	0120R105 (40-50HP)	0120R105 (60-75HP)	0120R105 (75-100HP)	0120R021 (100-125HP)	0120R021 (100-125HP)
150	0150R105 (50-60HP)	0150R105 (100HP)	0150R105 (100-125HP)	0150R021 (125-150HP)	0150R021 (150-175HP)
180	N/A	N/A	N/A	0180R021 (150-200HP)	0180R021 (200HP)
Approvals	cUL, UL, ENEC	cUL, UL, ENEC	cUL, UL, ENEC	cUL, UL	
Max. Voltage	520 V (L-L)	520 V (L-L)	520 V (L-L)	600 V (L-L)	760 V (L-L)
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Max. Ambient Temperature with Derating	100° C	100° C	100° C	100° C	100° C
Terminals	Finger safe	Finger safe	Finger safe	Finger safe	Finger safe
Typical motor cable length for Class A	Up to 25 m / 82 ft	Up to 25 m / 82 ft	Up to 25 m / 82 ft	Up to 50 m / 164 ft	Up to 50 m / 164 ft
Typical motor cable length for Class B	Up to 25 m / 82 ft	Up to 25 m / 82 ft	Up to 25 m / 82 ft	Up to 25 m / 82 ft	Up to 25 m / 82 ft

# Selection Guide: 3-phase filters, 150-2500 Amps

(Type B84143BxxxxS02)

EMI/RFI filters are selected based on system voltage and line current. The full load current ratings for motor drives vary by manufacturer and application. Verify your equipment full load current and voltage ratings, and then make the appropriate filter selection.

	200-240 V (Typical HP)	380-415 V (Typical HP)	440-480 V (Typical HP)	600 V (Typical HP)	690 V (Typical HP)
Type	B84143B	B84143B	B84143B	B84143B	B84143B
Amperes (continuous) at 40° C					
150	0150S020 (50-60HP)	0150S020 (75-100HP)	0150S020 (100-125HP)	0150S021 (100-150HP)	0150S021 (150-175HP)
180	0180S020 (60-75HP)	0180S020 (100-125HP)	0180S020 (150-200HP)	0180S021 (150-200HP)	0180S021 (175-200HP)
250	0250S020 (75-100HP)	0250S020 (125-150HP)	0250S020 (150-200HP)	0250S021 (200-250HP)	0250S021 (250-300HP)
320	0320S020 (100-125HP)	0320S020 (200-250HP)	0320S020 (200-250HP)	0320S021 (250-300HP)	0320S021 (350-400HP)
400	0400S020 (125-150HP)	0400S020 (250HP)	0400S020 (300-350HP)	0400S021 (350-400HP)	0400S021 (400-450HP)
600	0600S020 (150-200HP)	0600S020 (300-450HP)	0600S020 (400-500HP)	0600S021 (400-600HP)	0600S021 (500-700HP)
1000	1000S020 (300-500HP)	1000S020 (500-700HP)	1000S020 (600-850HP)	1000S021 (600-1000HP)	1000S021 (750-1100HP)
1600	1600S020 (500-700HP)	1600S020 (750-1100HP)	1600S020 (900-1400HP)	1600S021 (1000-1600HP)	1600S021 (1200-1600HP)
2500	2500S020 (800-1000HP)	2500S020 (1200-1750HP)	2500S020 (1400-2000HP)	2500S021 (1700-2500HP)	2500S021 (1700-2500HP)
Approvals	cUL, UL	cUL, UL	cUL, UL	cUL, UL	
Max. Voltage	500 V (L-L)	500 V (L-L)	500 V (L-L)	600 V (L-L)	760 V (L-L)
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Max. Ambient Temperature with Derating	100° C	100° C	100° C	100° C	100° C
Terminals	Cu Bus bar	Cu Bus bar	Cu Bus bar	Cu Bus bar	Cu Bus bar
Typical motor cable length for Class A	Up to 50 m / 164 ft	Up to 50 m / 164 ft	Up to 50 m / 164 ft	Up to 50 m / 164 ft	Up to 50 m / 164 ft
Typical motor cable length for Class B	Up to 20 m / 65 ft	Up to 20 m / 65 ft	Up to 20 m / 65 ft	Up to 20 m / 65 ft	Up to 20 m / 65 ft

**Overload Capability:** 1.5 x rated current for 3min./hr., or 2.5 x rated current for 30sec./hr.

**Custom EMI/RFI Filters:** EPCOS supports requirements for customized filters.

Please submit your requirements to our sales office.