

GS30 Optional Accessories – EMC Filter & Zero-Phase Reactor

GS30 Standard Footprint EMC Filter and Zero-Phase Reactor

If electromagnetic noise is harmful to your manufacturing environment, we recommend that you select an EMC filter as shown below. For some drive models, you may need to use zero-phase reactors to be compliant with EMC regulations. Refer to the table and figures below for the recommended model, setting method, and maximum motor cable length of the EMC filter and zero-phase reactor. The filter's footprint allows mounting of the drive on top of the recommended filter, saving panel space and wiring. For more information and installation instructions, please see the GS30 User Manual.

GS30 EMC Filter and Zero-Phase Reactor, Frames A-F														
Frame	Drive Model	Input Current (A)	Footprint* Filter Model #	Price	Recommended Zero-Phase Reactor	Conducted Emission				Radiated Emission				
						C1-motor cable length-30m		C2-motor cable length-100m		C2-motor cable length-100m				
						Zero-Phase Reactor Position								
						1	2	3	n/a	1	2	3		
A	GS31-20P5	6.7	EMF11AM21A	\$53.00	RF008X00A		✓	✓	N/A		✓	✓		
	GS33-20P5	3.8	EMF10AM23A	\$73.00			✓	✓			✓	✓		
	GS33-21P0	6	EMF10AM23A	\$73.00			✓	✓			✓	✓		
	GS33-40P5	2.5	EMF6A0M43A	\$67.00				✓				✓		
	GS33-41P0	4.2	EMF6A0M43A	\$67.00				✓				✓		
B	GS31-21P0	10.5	EMF11AM21A	\$53.00			✓	✓				✓	✓	
	GS33-22P0	9.6	EMF10AM23A	\$73.00			✓	✓				✓	✓	
	GS33-42P0	6.4	EMF6A0M43A	\$67.00				✓					✓	
C	GS31-22P0	17.9	EMF27AM21B	\$94.00				✓						✓
	GS31-23P0	26.3	EMF27AM21B	\$94.00				✓						✓
	GS33-23P0	15	EMF24AM23B	\$115.00			✓	✓				✓	✓	
	GS33-25P0	23.4	EMF24AM23B	\$115.00			✓	✓				✓	✓	
	GS33-43P0	7.2	EMF12AM43B	\$118.00										
	GS33-45P0	11.6	EMF12AM43B	\$118.00			✓	✓				✓	✓	
D	GS33-27P5	32.4	EMF33AM23B	\$167.00		✓	✓				✓	✓		
	GS33-47P5	17.3	EMF23AM43B	\$161.00		✓	✓	✓			✓	✓	✓	
	GS33-4010	22.6	EMF23AM43B	\$161.00		✓	✓	✓			✓	✓	✓	
E	GS33-2010	43.2	B84143D0050R127	\$711.00			✓	✓				✓	✓	
	GS33-2015	61.2	B84143D0075R127	\$799.00			✓	✓				✓	✓	
	GS33-4015	30.8	B84143D0050R127	\$711.00										
	GS33-4020	39.6	B84143D0050R127	\$711.00			✓	✓				✓	✓	
F	GS33-2020	82.8	B84143D0090R127	\$879.00			✓	✓				✓	✓	
	GS33-4025	45.7	B84143D0050R127	\$711.00			✓	✓				✓	✓	
	GS33-4030	53.9	B84143D0075R127	\$799.00			✓	✓				✓	✓	

Note: It is not necessary to add a zero-phase reactor to pass the C2 conducted emission test.

* The B8xxx series filters are not footprint filters and must be mounted separately.

GS30 EMC Filter and Zero-Phase Reactor, Frames G-I																
Frame	Drive Model	Input Current (A)	Filter Model #	Price	Recommended Zero-Phase Reactor	Conducted Emission									Radiated Emission	
						C1-motor cable length-10m			C2-motor cable length-20m			C3-motor cable length 100m			C2-motor cable length-100m	
						Zero-Phase Reactor Position										
						1	2	3	1	2	3	1	2	3		
G	GS33-2025	85	B84143A0120R105	\$695.00	RF008X00A		✓	✓			✓				✓	✓
	GS33-2030	103	B84143A0120R105	\$695.00			✓	✓			✓				✓	✓
	GS33-4040	72.5	B84143A0120R105	\$695.00			✓	✓			✓					
H	GS33-4050	77	B84143D0150R127	\$1,056.00	RF002X00A		✓	✓			✓				✓	✓
	GS33-4060	97	B84143D0150R127	\$1,056.00			✓	✓			✓				✓	✓
I	GS33-2040	126	B84143D0200R127	\$1,565.00	RF002X00A		✓	✓	✓						✓	✓
	GS33-2050	151	B84143D0200R127	\$1,565.00			✓	✓							✓	✓
	GS33-4075	123	B84143D0200R127	\$1,565.00				✓								
	GS33-4100	173	B84143D0200R127	\$1,565.00				✓								

Note: It is not necessary to add a zero-phase reactor to pass the C2 conducted emission test.