## 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	01 -	Cond notor d	ducted	Radiated Emission C2-motor cable			
					Zero-Phase Reactor		ngth-30		C2-motor cable length-100m	length-100m		
								Zero-	Phase Reactor Pos	sition		
						1	2	3	n/a	1	2	3
	GS31-20P5	6.7	EMF11AM21A	\$53.00			✓	✓	N/A		✓	✓
	GS33-20P5	3.8	EMF10AM23A	\$73.00			✓	✓			✓	✓
Α	<u>GS33-21P0</u>	6	EMF10AM23A	\$73.00			✓	✓			✓	✓
	<u>GS33-40P5</u>	2.5	EMF6A0M43A	\$67.00				✓				✓
	<u>GS33-41P0</u>	4.2	EMF6A0M43A	\$67.00				✓				✓
	<u>GS31-21P0</u>	10.5	EMF11AM21A	\$53.00			✓	✓			✓	✓
В	<u>GS33-22P0</u>	9.6	EMF10AM23A	\$73.00			✓	✓			<b>√</b>	✓
	GS33-42P0	6.4	EMF6A0M43A	\$67.00				✓				✓
	<u>GS31-22P0</u>	17.9	EMF27AM21B	\$94.00				✓				✓
	GS31-23P0	26.3	EMF27AM21B	\$94.00				✓				✓
С	GS33-23P0	15	EMF24AM23B	\$115.00			✓	✓			✓	✓
	GS33-25P0	23.4	EMF24AM23B	\$115.00			✓	✓			✓	✓
	<u>GS33-43P0</u>	7.2	EMF12AM43B	\$118.00								
	<u>GS33-45P0</u>	11.6	EMF12AM43B	\$118.00			✓	✓			✓	✓
	GS33-27P5	32.4	EMF33AM23B	\$167.00		✓	✓			✓	<b>\</b>	
D	GS33-47P5	17.3	EMF23AM43B	\$161.00		✓	✓	✓		✓	<b>\</b>	✓
	<u>GS33-4010</u>	22.6	EMF23AM43B	\$161.00		✓	✓	✓		✓	<b>&gt;</b>	✓
	<u>GS33-2010</u>	43.2	B84143D0050R127	\$711.00			✓	✓			<b>√</b>	✓
Е	<u>GS33-2015</u>	61.2	B84143D0075R127	\$799.00			✓	<b>√</b>			<b>√</b>	✓
	<u>GS33-4015</u>	30.8	B84143D0050R127	\$711.00								
	<u>GS33-4020</u>	39.6	B84143D0050R127	\$711.00			✓	✓			✓	✓
	<u>GS33-2020</u>	82.8	B84143D0090R127	\$879.00			✓	✓			✓	✓
F	<u>GS33-4025</u>	45.7	B84143D0050R127	\$711.00			✓	✓			✓	✓
	GS33-4030	53.9	B84143D0075R127	\$799.00			<b>√</b>	<b>√</b>			✓	<b>√</b>

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

<sup>\*</sup> 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		Conducted Emission								Radiated Emission			
					Recommended Zero-Phase Reactor	C1-motor cable length-10m			C2-motor cable length-20m			C3-motor cable length 100m			C2-motor cable length- 100m		
							Zero-Phase Reactor Position						on	1			
						1	2	3	1	2	3	1	2	3	1	2	3
	GS33-2025	85	B84143A0120R105	\$695.00	<u>RF008X00A</u>		✓	✓			✓					✓	✓
G	GS33-2030	103	B84143A0120R105	\$695.00			✓	✓			✓					✓	✓
	GS33-4040	72.5	B84143A0120R105	\$695.00		✓		✓			✓						
Н	GS33-4050	77	B84143D0150R127	\$1,056.00	- <u>RF002X00A</u>	✓		✓			✓					✓	✓
	GS33-4060	97	B84143D0150R127	\$1,056.00		<b>√</b>		<b>√</b>			✓					<b>√</b>	<b>√</b>
I	GS33-2040	126	B84143D0200R127	\$1,565.00		<b>√</b>	✓	<b>√</b>								<b>√</b>	<b>√</b>
	GS33-2050	151	B84143D0200R127	\$1,565.00		✓	✓									<b>√</b>	<b>√</b>
	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.