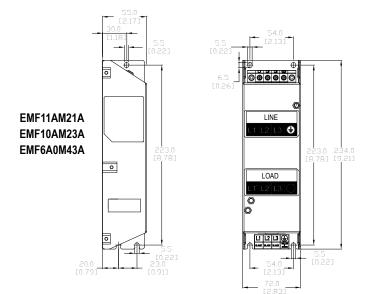
1-800-633-0405 **GS10 Series Optional Accessories – EMC Filter & Zero Phase Reactor GS10 Standard Footprint EMC Filter and Zero Phase Reactor**

If electromagnetic noise is harmful to your manufacturing environment, we recommend that you select an EMC filter as shown below. For some motor drive models, you need to work with zero phase reactors to be compliant with EMC regulations. Refer to the table and figure below for the recommended model, setting method, and maximum motor cable length of the EMC filter and zero phase reactor. The footprint filter allows mounting of the drive on top of the recommended filter, saving panel space and wiring. For more information and installation instructions, please see your GS10 series User Manual.

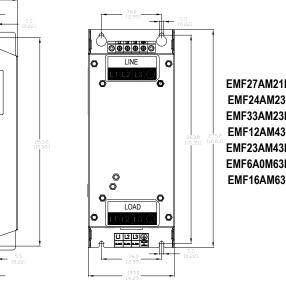
			GS10 EMO	Filter	and Zero Pha	se F	leac	tor				
	Drive Model	Input Current (A)	Footprint Filter Model #	Price			Cond	lucted	Radiated Emission			
Frame					Recommended Zero Phase Reactor		motor o ngth-30		C2-motor cable length-100m	C2-motor cable leng 100m		length-
							P	osition	Phase Reactor			
						1	2	3	n/a	1	2	3
	<u>GS11N-10P2</u>	6	EMF11AM21A	\$60.00					N/A			
	<u>GS11N-10P5</u>	9.4							N/A			
	<u>GS11N-20P2</u>	5.1					√	 ✓ 	N/A		\checkmark	\checkmark
	GS11N-20P5	7.3					\checkmark	\checkmark	N/A		\checkmark	\checkmark
A	GS13N-20P2	1.9	EMF10AM23A	\$83.00			\checkmark	\checkmark	N/A		\checkmark	\checkmark
	GS13N-20P5	3.4					\checkmark	\checkmark	N/A		\checkmark	\checkmark
	<u>GS13N-21P0</u>	5.8					\checkmark	\checkmark	N/A		\checkmark	\checkmark
	GS13N-40P5	2.1	EMF6A0M43A	\$76.00				\checkmark	N/A			\checkmark
	<u>GS13N-41P0</u>	3.7						\checkmark	N/A*			~
	<u>GS11N-21P0</u>	10.8	EMF11AM21A	\$60.00			\checkmark	\checkmark	N/A		\checkmark	~
В	<u>GS13N-22P0</u>	9	EMF10AM23A	\$83.00	RF008X00A		\checkmark	\checkmark	N/A		\checkmark	~
	<u>GS13N-42P0</u>	5.8	EMF6A0M43A	\$76.00	RFUUOAUUA			\checkmark	N/A			\checkmark
	<u>GS11N-11P0</u>	18	EMF27AM21B	\$106.00					N/A			
	GS11N-22P0	16.5						\checkmark	N/A			\checkmark
	GS11N-23P0	24.2						✓	N/A			\checkmark
С	GS13N-23P0	13.2	EMF24AM23B	\$130.00			\checkmark	\checkmark	N/A		\checkmark	\checkmark
	GS13N-25P0	20					\checkmark	\checkmark	N/A		\checkmark	\checkmark
	GS13N-43P0	6.1		\$133.00					N/A			
	GS13N-45P0	9.9	EMF12AM43B				√	√	N/A		\checkmark	\checkmark
	GS13N-27P5	30	EMF33AM23B	\$189.00	1	\checkmark	1		N/A	\checkmark	\checkmark	
D	GS13N-47P5	14.3		\$182.00		\checkmark	1	√	N/A	\checkmark	\checkmark	\checkmark
	GS13N-4010	19.3	EMF23AM43B			\checkmark	1	✓	N/A	\checkmark	✓	\checkmark

0

EMF Series Filter Dimensions



(Units = mm [in])



EMF27AM21B; EMF24AM23B EMF33AM23B: EMF12AM43B EMF23AM43B; EMF6A0M63B; EMF16AM63B

1-800-633-0405 **GS20(X)** Optional Accessories – EMC Filter & Zero Phase Reactor

GS20(X) 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 motor drive models, you need to work with zero phase reactors to be compliant with EMC regulations. Refer to the table and figure below for the recommended model, setting method, and maximum motor cable length of the EMC filter and zero phase reactor. The footprint filter 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 GS20(X) User Manual.

Frame	Drive Model	Input Current (A)	Footprint Filter Model #	Price	Recommended Zero Phase Reactor		Condu	Radiated Emission C2-motor cable length- 100m				
						C1-motor cable length-30m					C2-motor cable length- 100m	
							Positio	on to In	istall a Zero Ph	ase Reactor		
						1	2	3	n/a	1	2	3
	<u>GS21-10P2</u>	6.8	EMF11AM21A	\$60.00					N/A			
	<u>GS21-20P2</u>	3.8	EMF11AM21A	\$60.00			\checkmark	\checkmark	N/A		\checkmark	\checkmark
	<u>GS21-20P5</u>	6.7	EMF11AM21A	\$60.00	1		✓	\checkmark	N/A		\checkmark	\checkmark
	<u>GS23-20P2</u>	2.2	EMF10AM23A	\$83.00			\checkmark	\checkmark	N/A		\checkmark	\checkmark
٨	<u>GS23-20P5</u>	3.8	EMF10AM23A	\$83.00			\checkmark	\checkmark	N/A		\checkmark	1
A	<u>GS23-21P0</u>	6	EMF10AM23A	\$83.00	1		\checkmark	\checkmark	N/A		\checkmark	1
	GS23-40P5	2.5	EMF6A0M43A	\$76.00	1 1			✓	N/A			1
	GS23-41P0	4.2	EMF6A0M43A	\$76.00	1 1			✓	N/A			1
	GS23-51P0	2.4	EMF6A0M63B	\$174.00	1 1				N/A*			
	GS21-10P5	10.1	EMF11AM21A	\$60.00					N/A			
	GS21X-20P5	8.3	EMF11AM21A	\$60.00	1 1		✓	✓	N/A		✓	1
	<u>GS21X-21P0</u>	11.3	EMF11AM21A	\$60.00	1 1		✓	✓	N/A		✓	1
	GS21X-22P0	18.5	EMF27AM21B	\$106.00	RF008X00A			\checkmark	N/A			√
	GS23X-20P5	3.8	EMF10AM23A	\$83.00			✓	✓	N/A		\checkmark	√
	GS23X-21P0	6	EMF10AM23A	\$83.00			\checkmark	\checkmark	N/A		\checkmark	1
GS20X A	GS23X-22P0	9.6	EMF10AM23A	\$83.00			\checkmark	\checkmark	N/A		\checkmark	1
	GS23X-40P5	2.5	EMF6A0M43A	\$76.00				\checkmark	N/A			\checkmark
	GS23X-41P0	4.2	EMF6A0M43A	\$76.00				1	N/A			1
	GS23X-42P0	6.4	EMF6A0M43A	\$76.00				\checkmark	N/A			1
	GS23X-43P0	7.2	EMF12AM43B	\$133.00					N/A			
	GS21-21P0	10.5	EMF11AM21A	\$60.00			✓	√	N/A		\checkmark	1
-	GS23-22P0	9.6	EMF10AM23A	\$83.00			\checkmark	\checkmark	N/A		\checkmark	1
В	GS23-52P0	4.2	EMF6A0M63B	\$174.00					N/A*			
	GS23-42P0	6.4	EMF6A0M43A	\$76.00				\checkmark	N/A			1
	GS21X-23P0	27.5	EMF27AM21B	\$106.00				1	N/A			1
	GS23X-23P0	15	EMF24AM23B	\$130.00			√	√	N/A		✓	√ \
GS20X B	GS23X-25P0	23.4	EMF24AM23B	\$130.00			\checkmark	√	N/A		1	1
	GS23X-45P0	11.6	EMF12AM43B	\$133.00					N/A		√	√
	<u>GS21-11P0</u>	20.6	EMF27AM21B	\$106.00					N/A			
	GS21-22P0	17.9	EMF27AM21B	\$106.00				✓	N/A			1
	GS21-23P0	26.3	EMF27AM21B	\$106.00				√	N/A			1
	GS23-23P0	15	EMF24AM23B	\$130.00			✓	√	N/A		\checkmark	1
	GS23-25P0	23.4	EMF24AM23B	\$130.00			✓	✓	N/A		\checkmark	
С	GS23-43P0	7.2	EMF12AM43B	\$133.00			, 		N/A			
	GS23-53P0	5.8	EMF16AM63B	\$177.00					N/A*			
	GS23-55P0	9.3	EMF16AM63B	\$177.00					N/A			
	GS23-45P0	11.6	EMF12AM43B	\$133.00			✓	\checkmark	N/A		\checkmark	✓
	GS23X-27P5	32.4	EMF33AM23B	\$189.00		✓	\checkmark		N/A	✓	1	
	GS23X-47P5	17.3	EMF23AM43B	\$182.00		√ _	\checkmark	✓	N/A	√ _	√	1
GS20X C	<u>GS23X-4010</u>	22.6	EMF23AM43B	\$182.00	1	✓	✓	✓	N/A	√	√ \	↓ ↓

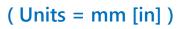
1-800-633-0405 **GS20(X)** Optional Accessories – EMC Filter & Zero Phase Reactor

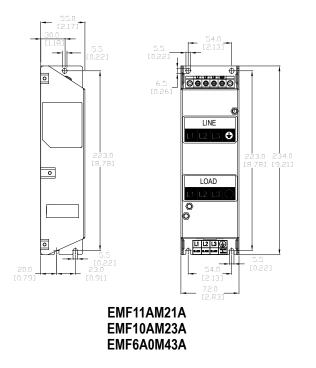
GS20(X) Standard Footprint EMC Filter and Zero Phase Reactor, continued

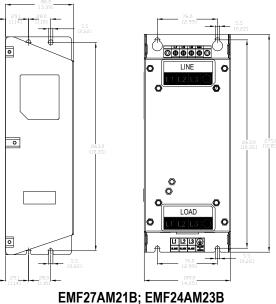
Frame	Drive Model	Input Current (A)	Footprint Filter Model #	Price			Conducted Emission				Radiated Emission		
					Recommended Zero Phase Reactor	C1-motor cable length-30m			C2-motor cable length- 100m	ength-			
						Position to Install a Zero P							
						1	2	3	n/a	1	2	3	
	<u>GS23-27P5</u>	32.4	EMF33AM23B	\$189.00		\checkmark	\checkmark		N/A	\checkmark	\checkmark		
D	<u>GS23-47P5</u>	17.3	EMF23AM43B	\$182.00		\checkmark	\checkmark	\checkmark	N/A	\checkmark	\checkmark	\checkmark	
	<u>GS23-57P5</u>	13.4	EMF16AM63B	\$177.00					N/A				
	<u>GS23-5010</u>	17.5	EMF16AM63B	\$177.00					N/A				
	<u>GS23-4010</u>	22.6	EMF23AM43B	\$182.00	RF008X00A	\checkmark	\checkmark	\checkmark	N/A	\checkmark	\checkmark	✓	
E	<u>GS23-2010</u>	43.2	n/a	-			\checkmark	\checkmark	N/A		\checkmark	✓	
	<u>GS23-2015</u>	61.2	n/a	-			\checkmark	\checkmark	N/A		\checkmark	✓	
	<u>GS23-4015</u>	30.8	n/a	-					N/A				
	<u>GS23-4020</u>	39.6	n/a	-			\checkmark	\checkmark	N/A		\checkmark	✓	
F	<u>GS23-2020</u>	82.8	n/a	-			\checkmark	\checkmark	N/A		\checkmark	✓	
	<u>GS23-4025</u>	45.7	n/a	-			√	✓	N/A		\checkmark	✓	
	<u>GS23-4030</u>	53.9	n/a	-			✓	√	N/A		\checkmark	✓	

The maximum motor cable length of the conducted emission C2 class for GS23-51P0, GS23-52P0, and GS23-53P0 is 75 meters. All others are 100 meters. ** See diagram below for installation positions.

EMF Series Filter Dimensions







EMF33AM23B; EMF12AM43B EMF23AM43B; EMF6A0M63B; EMF16AM63B