

GS10 Series Optional Accessories – EMC Filter & Zero Phase Reactor

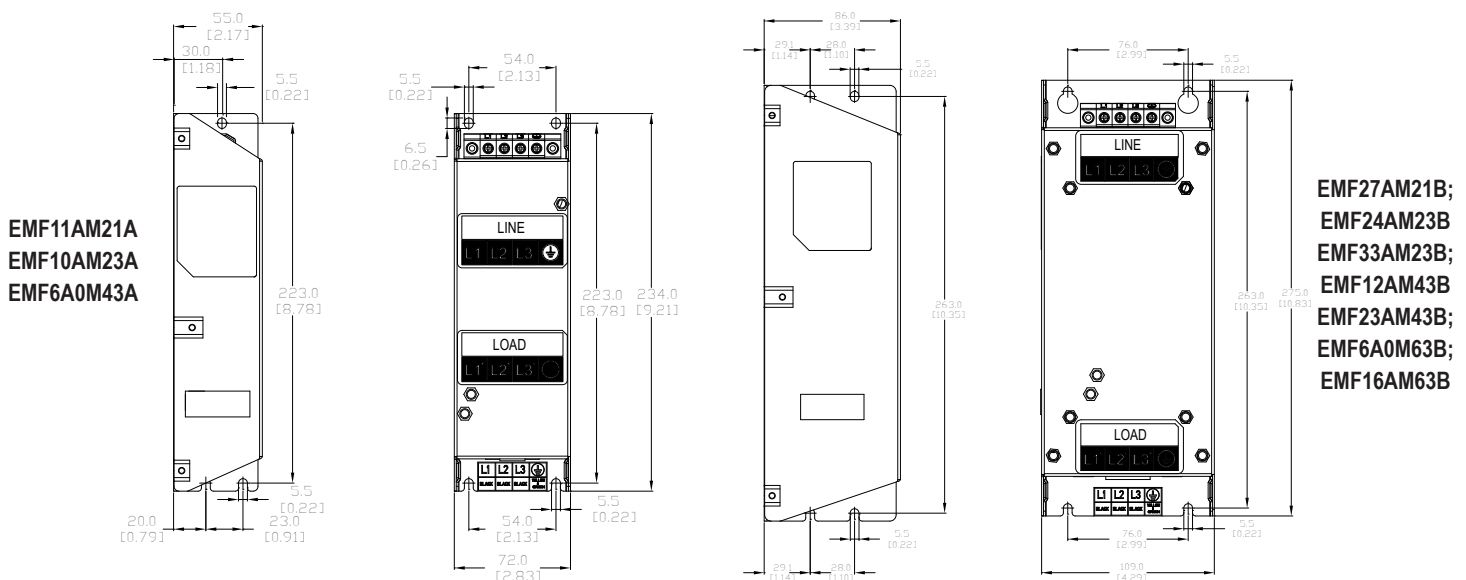
GS10 Standard Footprint EMC Filter and Zero Phase Reactor

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 EMC Filter and Zero Phase Reactor													
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				
						Position to Install a Zero Phase Reactor							
1	2	3	n/a	1	2	3							
A	GS11N-10P2	6	EMF11AM21A	\$53.00	RF008X00A				N/A				
	GS11N-10P5	9.4							N/A				
	GS11N-20P2	5.1					✓	✓		N/A		✓	✓
	GS11N-20P5	7.3					✓	✓		N/A		✓	✓
	GS13N-20P2	1.9	EMF10AM23A	\$73.00			✓	✓		N/A		✓	✓
	GS13N-20P5	3.4					✓	✓		N/A		✓	✓
	GS13N-21P0	5.8					✓	✓		N/A		✓	✓
	GS13N-40P5	2.1	EMF6A0M43A	\$67.00				✓		N/A		✓	
	GS13N-41P0	3.7						✓		N/A*		✓	
B	GS11N-21P0	10.8	EMF11AM21A	\$53.00			✓	✓		N/A		✓	✓
	GS13N-22P0	9	EMF10AM23A	\$73.00			✓	✓		N/A		✓	✓
	GS13N-42P0	5.8	EMF6A0M43A	\$67.00				✓		N/A		✓	
C	GS11N-11P0	18	EMF27AM21B	\$94.00					N/A				
	GS11N-22P0	16.5						✓		N/A		✓	
	GS11N-23P0	24.2						✓		N/A		✓	
	GS13N-23P0	13.2	EMF24AM23B	\$115.00			✓	✓		N/A		✓	✓
	GS13N-25P0	20					✓	✓		N/A		✓	✓
	GS13N-43P0	6.1							N/A				
	GS13N-45P0	9.9	EMF12AM43B	\$118.00			✓	✓		N/A		✓	✓
D	GS13N-27P5	30	EMF33AM23B	\$167.00		✓	✓		N/A	✓	✓		
	GS13N-47P5	14.3	EMF23AM43B	\$161.00		✓	✓	✓		N/A	✓	✓	✓
	GS13N-40I0	19.3				✓	✓	✓		N/A	✓	✓	✓

EMF Series Filter Dimensions

(Units = mm [in])



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.

GS20(X) EMC Filter and Zero Phase Reactor													
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				
						Position to Install a Zero Phase Reactor							
						1	2	3	n/a	1	2	3	
A	GS21-10P2	6.8	EMF11AM21A	\$53.00	RF008X00A				N/A				
	GS21-20P2	3.8	EMF11AM21A	\$53.00			✓	✓	N/A		✓	✓	
	GS21-20P5	6.7	EMF11AM21A	\$53.00			✓	✓	N/A		✓	✓	
	GS23-20P2	2.2	EMF10AM23A	\$73.00			✓	✓	N/A		✓	✓	
	GS23-20P5	3.8	EMF10AM23A	\$73.00			✓	✓	N/A		✓	✓	
	GS23-21P0	6	EMF10AM23A	\$73.00			✓	✓	N/A		✓	✓	
	GS23-40P5	2.5	EMF6A0M43A	\$67.00				✓	N/A			✓	
	GS23-41P0	4.2	EMF6A0M43A	\$67.00				✓	N/A			✓	
	GS23-51P0	2.4	EMF6A0M63B	\$154.00					N/A*				
	GS21-10P5	10.1	EMF11AM21A	\$53.00					N/A				
	GS20X A	GS21X-20P5	8.3	EMF11AM21A		\$53.00			✓	✓	N/A		✓
GS21X-21P0		11.3	EMF11AM21A	\$53.00				✓	✓	N/A		✓	✓
GS21X-22P0		18.5	EMF27AM21B	\$94.00					✓	N/A			✓
GS23X-20P5		3.8	EMF10AM23A	\$73.00				✓	✓	N/A		✓	✓
GS23X-21P0		6	EMF10AM23A	\$73.00				✓	✓	N/A		✓	✓
GS23X-22P0		9.6	EMF10AM23A	\$73.00				✓	✓	N/A		✓	✓
GS23X-40P5		2.5	EMF6A0M43A	\$67.00					✓	N/A			✓
GS23X-41P0		4.2	EMF6A0M43A	\$67.00					✓	N/A			✓
GS23X-42P0		6.4	EMF6A0M43A	\$67.00					✓	N/A			✓
GS23X-43P0		7.2	EMF12AM43B	\$118.00						N/A			
B		GS21-21P0	10.5	EMF11AM21A		\$53.00			✓	✓	N/A		✓
	GS23-22P0	9.6	EMF10AM23A	\$73.00				✓	✓	N/A		✓	✓
	GS23-52P0	4.2	EMF6A0M63B	\$154.00						N/A*			
	GS23-42P0	6.4	EMF6A0M43A	\$67.00					✓	N/A			✓
GS20X B	GS21X-23P0	27.5	EMF27AM21B	\$94.00					✓	N/A			✓
	GS23X-23P0	15	EMF24AM23B	\$115.00				✓	✓	N/A		✓	✓
	GS23X-25P0	23.4	EMF24AM23B	\$115.00				✓	✓	N/A		✓	✓
	GS23X-45P0	11.6	EMF12AM43B	\$118.00				✓	✓	N/A		✓	✓
C	GS21-11P0	20.6	EMF27AM21B	\$94.00						N/A			
	GS21-22P0	17.9	EMF27AM21B	\$94.00					✓	N/A			✓
	GS21-23P0	26.3	EMF27AM21B	\$94.00					✓	N/A			✓
	GS23-23P0	15	EMF24AM23B	\$115.00				✓	✓	N/A		✓	✓
	GS23-25P0	23.4	EMF24AM23B	\$115.00				✓	✓	N/A		✓	✓
	GS23-43P0	7.2	EMF12AM43B	\$118.00						N/A			
	GS23-53P0	5.8	EMF16AM63B	\$157.00						N/A*			
	GS23-55P0	9.3	EMF16AM63B	\$157.00						N/A			
	GS23-45P0	11.6	EMF12AM43B	\$118.00						N/A			
	GS23X-27P5	32.4	EMF33AM23B	\$167.00		✓	✓			N/A	✓	✓	
	GS20X C	GS23X-47P5	17.3	EMF23AM43B		\$161.00	✓	✓	✓		N/A	✓	✓
GS23X-4010		22.6	EMF23AM43B	\$161.00		✓	✓	✓		N/A	✓	✓	✓
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GS20(X) Optional Accessories – EMC Filter & Zero Phase Reactor

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

GS20(X) EMC Filter and Zero Phase Reactor (continued)														
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				
						Position to Install a Zero Phase Reactor								
						1	2	3	n/a	1	2	3		
D	GS23-27P5	32.4	EMF33AM23B	\$167.00	RF008X00A	✓	✓		N/A	✓	✓			
	GS23-47P5	17.3	EMF23AM43B	\$161.00		✓	✓	✓	N/A	✓	✓	✓		
	GS23-57P5	13.4	EMF16AM63B	\$157.00					N/A					
	GS23-5010	17.5	EMF16AM63B	\$157.00					N/A					
	GS23-4010	22.6	EMF23AM43B	\$161.00		✓	✓	✓	N/A	✓	✓	✓		
E	GS23-2010	43.2	n/a	–			✓	✓	N/A		✓	✓		
	GS23-2015	61.2	n/a	–			✓	✓	N/A		✓	✓		
	GS23-4015	30.8	n/a	–					N/A					
	GS23-4020	39.6	n/a	–			✓	✓	N/A		✓	✓		
	GS23-2020	82.8	n/a	–			✓	✓	N/A		✓	✓		
F	GS23-4025	45.7	n/a	–			✓	✓	N/A		✓	✓		
	GS23-4030	53.9	n/a	–			✓	✓	N/A		✓	✓		

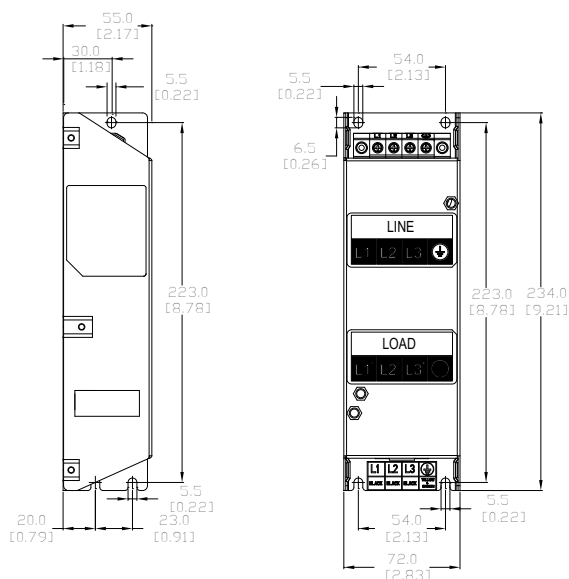
Note: It is not necessary to add a zero phase reactor for passing the C2 conducted emission test.

* 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.

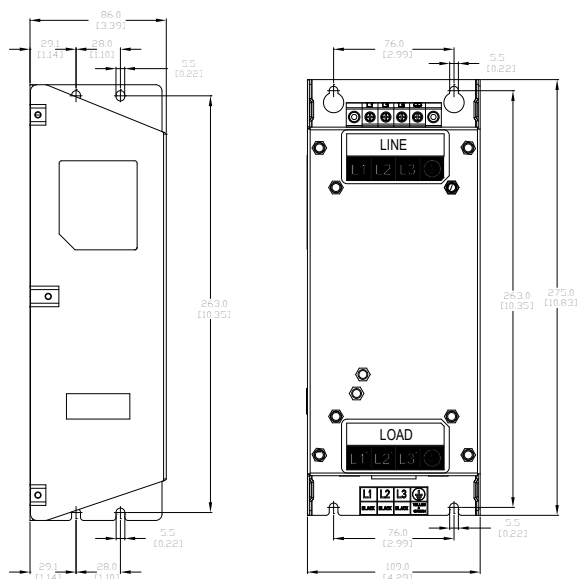
** See diagram below for installation positions.

EMF Series Filter Dimensions

(Units = mm [in])



EMF11AM21A
EMF10AM23A
EMF6A0M43A



EMF27AM21B; EMF24AM23B
EMF33AM23B; EMF12AM43B
EMF23AM43B; EMF6A0M63B;
EMF16AM63B