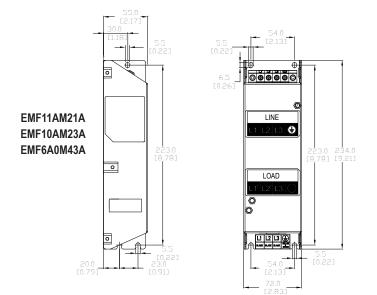
1-800-633-0405 **GS10** Series Optional Accessories – **EMC Filter & Zero Phase Reactor** Standard Footprint EMC Filter and Zero Phase Reactor

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.

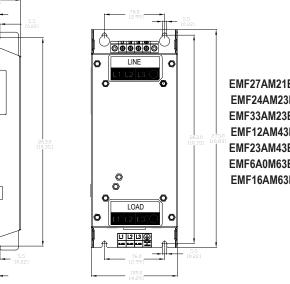
			GS10 EMO	Filter	and Zero Pha	se F	leac	tor				
								lucted	Radiated Emission			
Frame	Drive Model	Input Current (A)	Footprint Filter Model #	Price	Recommended Zero Phase Reactor	-	motor o ngth-30		C2-motor cable length-100m	C2-mc	length-	
							P	osition	Phase Reactor			
						1	2	3	n/a	1	2	3
	<u>GS11N-10P2</u>	6	EMF11AM21A	\$51.00					N/A			
	<u>GS11N-10P5</u>	9.4							N/A			
	<u>GS11N-20P2</u>	5.1					\checkmark	\checkmark	N/A		\checkmark	\checkmark
	<u>GS11N-20P5</u>	7.3					\checkmark	\checkmark	N/A		\checkmark	\checkmark
А	GS13N-20P2	1.9	EMF10AM23A	\$70.00			\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	\$64.00				\checkmark	N/A			\checkmark
	<u>GS13N-41P0</u>	3.7						\checkmark	N/A*			\checkmark
	<u>GS11N-21P0</u>	10.8	EMF11AM21A	\$51.00			\checkmark	\checkmark	N/A		\checkmark	\checkmark
В	<u>GS13N-22P0</u>	9	EMF10AM23A	\$70.00	RF008X00A		\checkmark	\checkmark	N/A		\checkmark	\checkmark
	GS13N-42P0	5.8	EMF6A0M43A	\$64.00	RF008X00A			\checkmark	N/A			\checkmark
	<u>GS11N-11P0</u>	18	EMF27AM21B	\$90.00					N/A			
	GS11N-22P0	16.5						\checkmark	N/A			\checkmark
	GS11N-23P0	24.2						\checkmark	N/A			\checkmark
С	GS13N-23P0	13.2	EMF24AM23B	\$111.00			\checkmark	\checkmark	N/A		\checkmark	\checkmark
	GS13N-25P0	20					\checkmark	\checkmark	N/A		\checkmark	\checkmark
	GS13N-43P0	6.1		¢112.00					N/A			
	GS13N-45P0	9.9	EMF12AM43B	\$113.00			\checkmark	\checkmark	N/A		\checkmark	\checkmark
	GS13N-27P5	30	EMF33AM23B	\$161.00]	\checkmark	\checkmark		N/A	\checkmark	\checkmark	
D	GS13N-47P5	14.3		\$155.00		\checkmark	\checkmark	\checkmark	N/A	\checkmark	\checkmark	\checkmark
	GS13N-4010	19.3	EMF23AM43B			\checkmark	\checkmark	\checkmark	N/A	\checkmark	\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

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.

		GS	20(X) EMC	Filter a	and Zero Phas	e Re	eact	or				
	Drive Model	Input Current (A)	Footprint Filter Model #	Price	Recommended Zero Phase Reactor		icted E	Radiated Emission				
Frame						C1-motor cable length-30m			cable length		-motor cable ngth- 100m	
							Positic	on to In	istall a Zero Pl	ase Reactor		
						1	2	3	n/a	1	2	3
	<u>GS21-10P2</u>	6.8	EMF11AM21A	\$51.00	-				N/A			
	<u>GS21-20P2</u>	3.8	EMF11AM21A	\$51.00			\checkmark	\checkmark	N/A		\checkmark	\checkmark
	<u>GS21-20P5</u>	6.7	EMF11AM21A	\$51.00			\checkmark	\checkmark	N/A		\checkmark	\checkmark
	<u>GS23-20P2</u>	2.2	EMF10AM23A	\$70.00			\checkmark	\checkmark	N/A		\checkmark	\checkmark
А	<u>GS23-20P5</u>	3.8	EMF10AM23A	\$70.00			\checkmark	\checkmark	N/A		\checkmark	\checkmark
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u>GS23-21P0</u>	6	EMF10AM23A	\$70.00			$\checkmark$	$\checkmark$	N/A		$\checkmark$	$\checkmark$
	<u>GS23-40P5</u>	2.5	EMF6A0M43A	\$64.00				$\checkmark$	N/A			$\checkmark$
	<u>GS23-41P0</u>	4.2	EMF6A0M43A	\$64.00				$\checkmark$	N/A			$\checkmark$
	<u>GS23-51P0</u>	2.4	EMF6A0M63B	\$148.00					N/A*			
	<u>GS21-10P5</u>	10.1	EMF11AM21A	\$51.00					N/A			
	<u>GS21X-20P5</u>	8.3	EMF11AM21A	\$51.00	RF008X00A		$\checkmark$	$\checkmark$	N/A		$\checkmark$	$\checkmark$
	<u>GS21X-21P0</u>	11.3	EMF11AM21A	\$51.00			$\checkmark$	$\checkmark$	N/A		$\checkmark$	$\checkmark$
	<u>GS21X-22P0</u>	18.5	EMF27AM21B	\$90.00				$\checkmark$	N/A			$\checkmark$
	<u>GS23X-20P5</u>	3.8	EMF10AM23A	\$70.00			$\checkmark$	$\checkmark$	N/A		$\checkmark$	$\checkmark$
GS20X A	<u>GS23X-21P0</u>	6	EMF10AM23A	\$70.00			$\checkmark$	$\checkmark$	N/A		$\checkmark$	$\checkmark$
0020////	<u>GS23X-22P0</u>	9.6	EMF10AM23A	\$70.00			$\checkmark$	$\checkmark$	N/A		$\checkmark$	$\checkmark$
	<u>GS23X-40P5</u>	2.5	EMF6A0M43A	\$64.00				$\checkmark$	N/A			$\checkmark$
	<u>GS23X-41P0</u>	4.2	EMF6A0M43A	\$64.00				$\checkmark$	N/A			$\checkmark$
	<u>GS23X-42P0</u>	6.4	EMF6A0M43A	\$64.00				$\checkmark$	N/A			$\checkmark$
	<u>GS23X-43P0</u>	7.2	EMF12AM43B	\$113.00					N/A			
	<u>GS21-21P0</u>	10.5	EMF11AM21A	\$51.00			$\checkmark$	$\checkmark$	N/A		$\checkmark$	$\checkmark$
В	<u>GS23-22P0</u>	9.6	EMF10AM23A	\$70.00			$\checkmark$	$\checkmark$	N/A		$\checkmark$	$\checkmark$
D	<u>GS23-52P0</u>	4.2	EMF6A0M63B	\$148.00					N/A*			
	<u>GS23-42P0</u>	6.4	EMF6A0M43A	\$64.00				$\checkmark$	N/A			$\checkmark$
	<u>GS21X-23P0</u>	27.5	EMF27AM21B	\$90.00				$\checkmark$	N/A			$\checkmark$
GS20X B	<u>GS23X-23P0</u>	15	EMF24AM23B	\$111.00			$\checkmark$	$\checkmark$	N/A		$\checkmark$	$\checkmark$
50207.0	<u>GS23X-25P0</u>	23.4	EMF24AM23B	\$111.00			$\checkmark$	$\checkmark$	N/A		$\checkmark$	$\checkmark$
	<u>GS23X-45P0</u>	11.6	EMF12AM43B	\$113.00			$\checkmark$	$\checkmark$	N/A		$\checkmark$	$\checkmark$
	<u>GS21-11P0</u>	20.6	EMF27AM21B	\$90.00					N/A			
	<u>GS21-22P0</u>	17.9	EMF27AM21B	\$90.00				$\checkmark$	N/A			$\checkmark$
	<u>GS21-23P0</u>	26.3	EMF27AM21B	\$90.00				$\checkmark$	N/A			$\checkmark$
	<u>GS23-23P0</u>	15	EMF24AM23B	\$111.00			$\checkmark$	$\checkmark$	N/A		$\checkmark$	$\checkmark$
С	<u>GS23-25P0</u>	23.4	EMF24AM23B	\$111.00			$\checkmark$	$\checkmark$	N/A		$\checkmark$	$\checkmark$
	<u>GS23-43P0</u>	7.2	EMF12AM43B	\$113.00					N/A			
	<u>GS23-53P0</u>	5.8	EMF16AM63B	\$151.00					N/A*			
	<u>GS23-55P0</u>	9.3	EMF16AM63B	\$151.00					N/A		-	
	<u>GS23-45P0</u>	11.6	EMF12AM43B	\$113.00			$\checkmark$	✓	N/A		$\checkmark$	$\checkmark$
	<u>GS23X-27P5</u>	32.4	EMF33AM23B	\$161.00		✓ ✓	✓ ✓		N/A	$\checkmark$	$\checkmark$	
GS20X C	<u>GS23X-47P5</u>	17.3	EMF23AM43B	\$155.00		✓ ✓	✓ ✓	✓ ✓	N/A	$\checkmark$	$\checkmark$	$\checkmark$
	<u>GS23X-4010</u>	22.6	EMF23AM43B	\$155.00		$\checkmark$	$\checkmark$	$\checkmark$	N/A	$\checkmark$	$\checkmark$	$\checkmark$
Continued o	on next page											

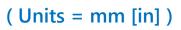
# GS20(X) Optional Accessories – EMC Filter & Zero Phase Reactor

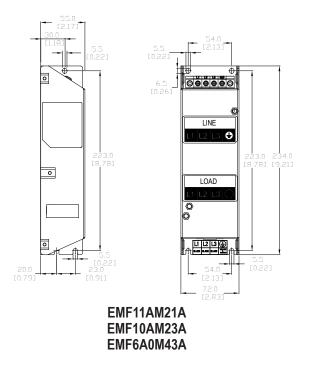
Standard Footprint EMC Filter and Zero Phase Reactor, continued

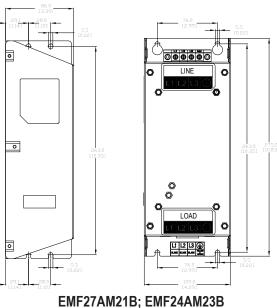
Frame	Drive Model	Input Current (A)	Footprint Filter Model #	Price			Condu	Radiated Emission				
					Recommended Zero Phase Reactor	C1-motor cable length-30m			C2-motor cable length- 100m	C2-motor cabl length- 100m		
						Position to Install a Zero Ph						
						1	2	3	n/a	1	2	3
	<u>GS23-27P5</u>	32.4	EMF33AM23B	\$161.00		$\checkmark$	$\checkmark$		N/A	$\checkmark$	$\checkmark$	
D	<u>GS23-47P5</u>	17.3	EMF23AM43B	\$155.00		$\checkmark$	$\checkmark$	$\checkmark$	N/A	$\checkmark$	$\checkmark$	$\checkmark$
	<u>GS23-57P5</u>	13.4	EMF16AM63B	\$151.00					N/A			
	<u>GS23-5010</u>	17.5	EMF16AM63B	\$151.00					N/A			
	<u>GS23-4010</u>	22.6	EMF23AM43B	\$155.00	RF008X00A	$\checkmark$	$\checkmark$	$\checkmark$	N/A	$\checkmark$	$\checkmark$	$\checkmark$
E	<u>GS23-2010</u>	43.2	n/a	-			$\checkmark$	$\checkmark$	N/A		$\checkmark$	$\checkmark$
	<u>GS23-2015</u>	61.2	n/a	-			$\checkmark$	$\checkmark$	N/A		$\checkmark$	$\checkmark$
	<u>GS23-4015</u>	30.8	n/a	-					N/A			
	<u>GS23-4020</u>	39.6	n/a	-			$\checkmark$	$\checkmark$	N/A		$\checkmark$	$\checkmark$
F	<u>GS23-2020</u>	82.8	n/a	-			$\checkmark$	$\checkmark$	N/A		$\checkmark$	$\checkmark$
	<u>GS23-4025</u>	45.7	n/a	-			$\checkmark$	$\checkmark$	N/A		$\checkmark$	✓
	<u>GS23-4030</u>	53.9	n/a	-			$\checkmark$	$\checkmark$	N/A		$\checkmark$	$\checkmark$

* 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**







EMF27AM21B; EMF24AM23B EMF33AM23B; EMF12AM43B EMF23AM43B; EMF6A0M63B; EMF16AM63B