

GS4 *DURAPULSE* Accessories – EMI Filters Selection

Selection (GS4)

The optional EMI Filters listed here are available for use with the GS4 drive. Selection of these accessories is application-specific and may improve drive performance. Additional information regarding filter installation and operation is available in the AutomationDirect white paper, "Applied EMI/RFI Techniques," downloadable from AutomationDirect.com.

EMI Filters Selection for GS4 AC Drives					
Model*	Description	EMI Filter **	Max Power kW [max/ph]	Max Torque kg-cm [lb-in]	SCCR Rating (kA)
GS4-21P0	230V 1ph/3ph 1.0 hp	KMF325A	20.8 [6]	17.7 [2]	5
GS4-22P0	230V 1ph/3ph 2.0 hp				
GS4-23P0	230V 1ph/3ph 3.0 hp				
GS4-25P0	230V 1ph/3ph 5.0 hp				
GS4-27P5	230V 1ph/3ph 7.5 hp	KMF370A	58.1 [16.8]	44.2 [5]	5
GS4-2010	230V 1ph/3ph 10hp				
GS4-2015	230V 1ph/3ph 15hp				
GS4-4025	460V 3ph 25hp				
GS4-4030	460V 3ph 30hp				
GS4-4040	460V 3ph 40hp	KMF3100A	83 [24]	44.2 [5]	10
GS4-2020	230V 3ph 20hp				
GS4-2025	230V 3ph 25hp				
GS4-2030	230V 3ph 30hp				
GS4-41P0	460V 3ph 1.0 hp	KMF318A	14.9 [4.3]	17.7 [2]	5
GS4-42P0	460V 3ph 2.0 hp				
GS4-43P0	460V 3ph 3.0 hp				
GS4-45P0	460V 3ph 5.0 hp				
GS4-47P5	460V 3ph 7.5 hp				
GS4-4010	460V 3ph 10hp	KMF350A	41.5 [12]	44.2 [5]	10
GS4-4015	460V 3ph 15hp				
GS4-4020	460V 3ph 20hp				
GS4-4050	460V 3ph 50hp	MIF375	62.3 [18]	53.1 [6]	10
GS4-2040	230V 3ph 40hp	MIF3150	124.6 [36]	177 [20]	10
GS4-2050	230V 3ph 50hp				
GS4-4060	460V 3ph 60hp				
GS4-4075	460V 3ph 75hp				
GS4-4100	460V 3ph 100hp				
GS4-2060	230V 3ph 60hp	MIF3400B	332.2 [96]	265.5 [30]	30
GS4-2075	230V 3ph 75hp				
GS4-2100	230V 3ph 100hp				
GS4-4125	460V 3ph 125hp				
GS4-4150	460V 3ph 150hp				
GS4-4175	460V 3ph 175hp				
GS4-4200	460V 3ph 200hp				
GS4-4250	460V 3ph 250hp	MIF3800 & Qty. 3 TOR254	664.3 [192]	265.5 [30]	30
GS4-4300	460V 3ph 300hp				

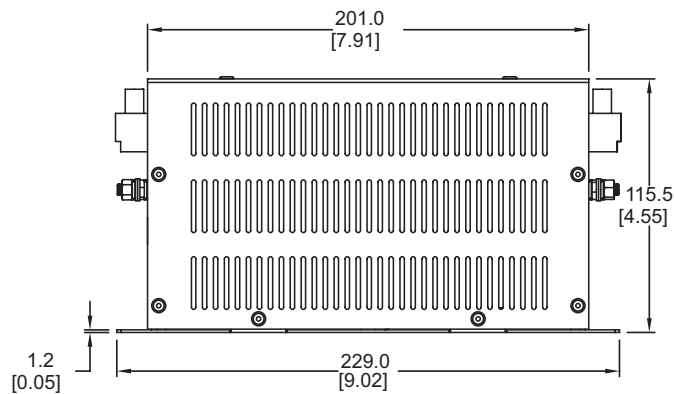
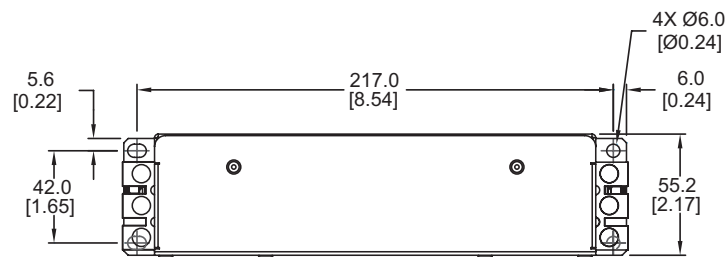
* EMI filter selections for GS4-2xxx models are the same whether that particular model is supplied 1-Phase or 3-Phase 230VAC.
 ** Part numbers are Roxburgh EMI Filters available from AutomationDirect at the web link embedded with each part number listed above.

GS4 DURAPULSE Accessories – EMI Filters

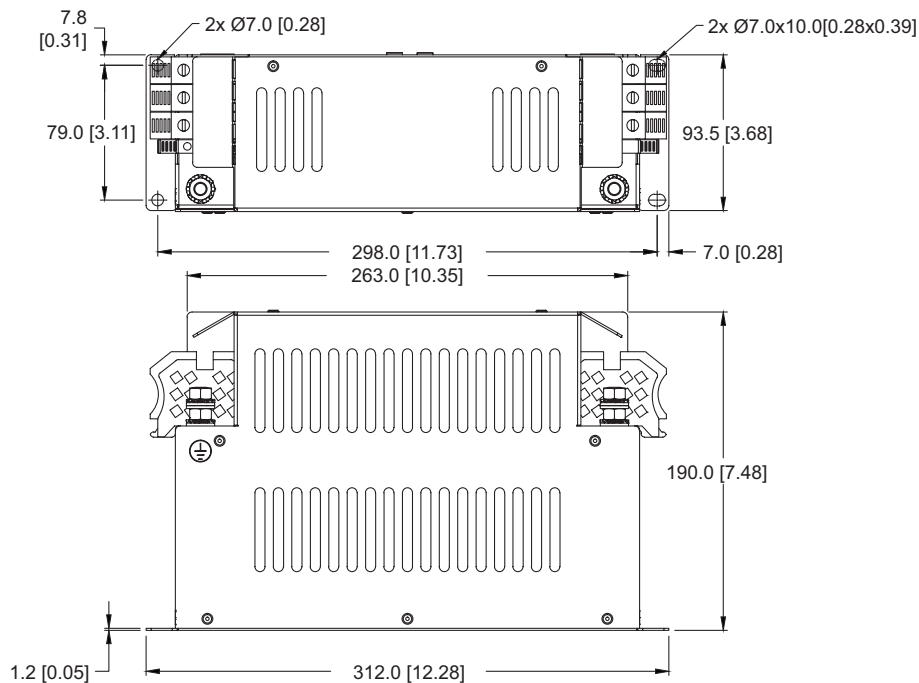
Dimensions

(Units = mm [in])

See our website: www.AutomationDirect.com for complete engineering drawings.



KMF318A KMF325A



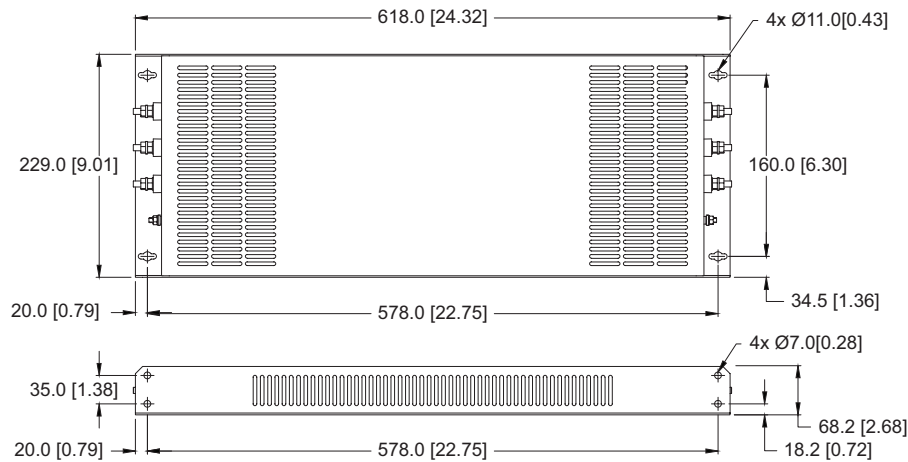
KMF350A KMF370A KMF3100A

GS4 DURAPULSE Accessories – EMI Filters

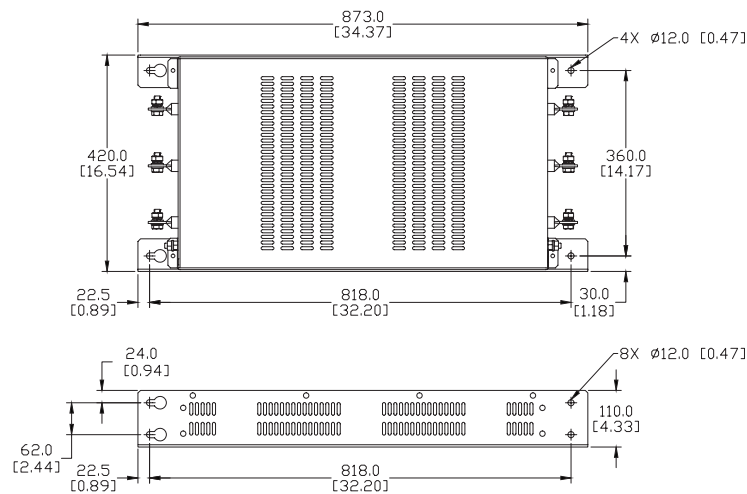
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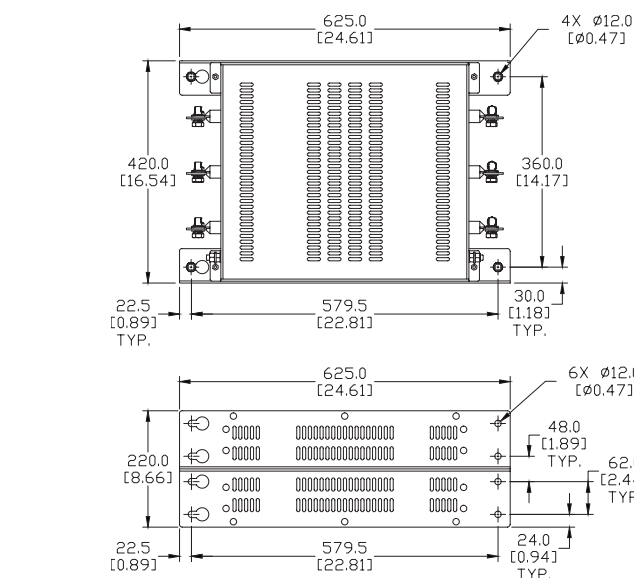
See our website: www.AutomationDirect.com for complete engineering drawings.



MIF3150



MIF3400B



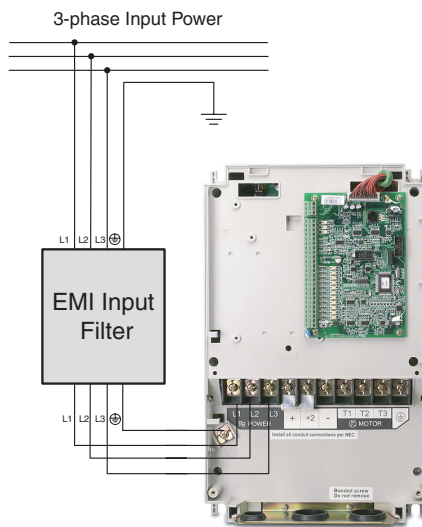
MIF3800

GS2 & GS3 *DURAPULSE* Accessories – EMI Filters

Overview

The CE Declaration of Conformity for the GS2 and *DURAPULSE* GS3 AC drives was completed in conjunction with the EMI filters listed. Use the following table to specify the corresponding EMI filter for each AC drive model.

CE compliance requires the use of EMI filters for GS2 and *DURAPULSE* GS3 AC drives. GS1 AC drives have internal EMI filtering, and do not require separate filters.



GS3-4030 shown

EMI Input Filter Specifications						
GS AC Drive 115V / 230V	GS AC Drive 460V / 575V	AC Servo Drive	EMI Filter	Price	Input Power	Dimen- sions
GS2-1xxx	-	SVA-2040 (1-ph) *	<u>20DRT1W3S</u>		1-phase, 20A	Figure 1
GS2-20P5 (1-ph)		SVA-2100 (1-ph) *				
GS2-21P0 (1-ph)		-				
GS2-22P0 (1-ph)						
GS3-21P0 (1-ph)						
GS3-22P0 (1-ph)						
GS2-23P0 (1-ph)	-	-	<u>32DRT1W3C</u>		1-phase, 32A	Figure 2
GS3-23P0 (1-ph)						
GS2-25P0	-	-	<u>40TDS4W4B</u>		3-phase, 40A	Figure 3
GS2-27P5						
-	GS2-41P0	-	<u>11TDT1W4S</u>		3-phase, 11A	Figure 4
	GS2-42P0					
	GS2-43P0					
-	GS2-45P0	-	<u>17TDT1W44</u>		3-phase, 17A	Figure 5
	GS2-47P5					
-	GS2-4010	-	<u>26TDT1W4B4</u>		3-phase, 26A	Figure 6
GS2-20P5 (3-ph)	GS2-5xxx	-	<u>not available</u>	n/a		
GS2-21P0 (3-ph) *	-	SVA-2040 (3-ph) *	<u>10TDT1W4C</u>		3-phase, 10A	Figure 7
GS2-22P0 (3-ph) *		SVA-2100 (3-ph) *				
GS3-21P0		-				
GS3-22P0		-				
GS2-23P0 (3-ph) *	-	SVA-2300 (3-ph) *	<u>26TDT1W4C</u>		3-phase, 26A	Figure 8
GS3-23P0		-				
GS3-25P0		-				
GS3-27P5		GS3-4020				
GS3-2010	GS3-4025	-	<u>50TDS4W4C</u>		3-phase, 50A	Figure 9
GS3-2015	GS3-4030	-	<u>100TDS84C</u>		3-phase, 100A	Figure 10
GS3-2020	GS3-4040					
-	GS3-4050					
GS3-2025	GS3-4060					
GS3-2030	-	-	<u>150TDS84C</u>		3-phase, 150A	Figure 11
GS3-2040						
GS3-2050						
	-	-	<u>180TDS84C</u>		3-phase, 180A	Figure 12
-	GS3-41P0	-	<u>RF022B43AA</u>		3-phase, 5.9A	Figure 13
	GS3-42P0					
	GS3-43P0					
-	GS3-45P0	-	<u>RF037B43BA</u>		3-phase, 11.2A	Figure 14
-	GS3-47P5	-	<u>RF110B43CA</u>		3-phase, 25A	Figure 15
	GS3-4010					
	GS3-4015					
-	GS3-4075	-	<u>200TDDS84C</u>		3-phase, 200A	Figure 16
	GS3-4100					

* EMI filters 10TDT1W4C and 26TDT1W4C mount underneath DURApulse drives, but do NOT mount underneath GS2 drives. They also do NOT mount underneath SureServo AC Servo drives.

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GS2 & GS3 *DURAPULSE* Accessories – EMI Filters

Figure 4 [units = mm]

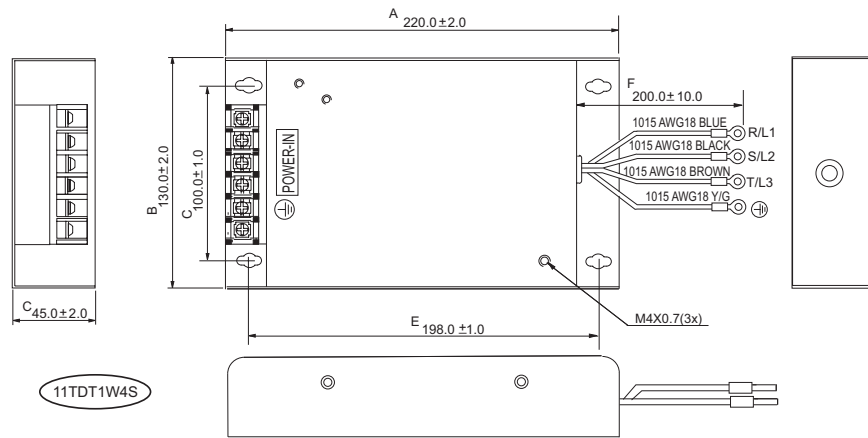


Figure 5 [units = mm]

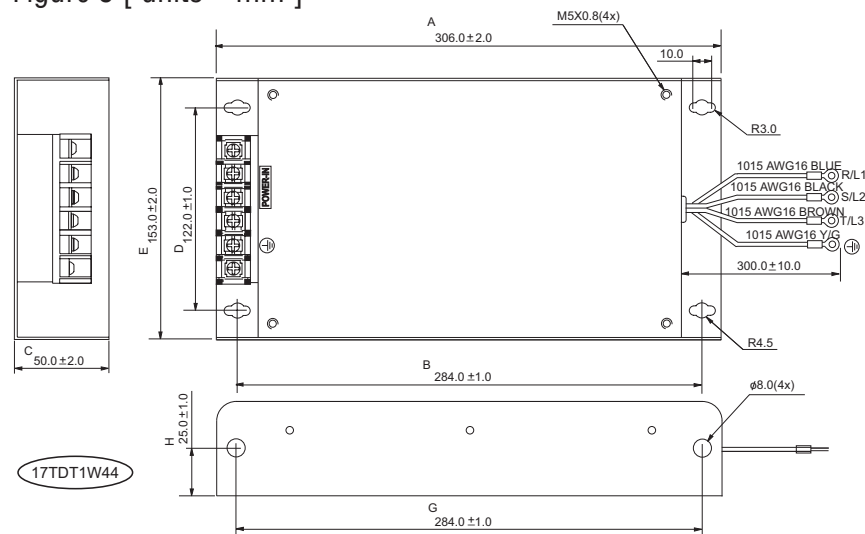
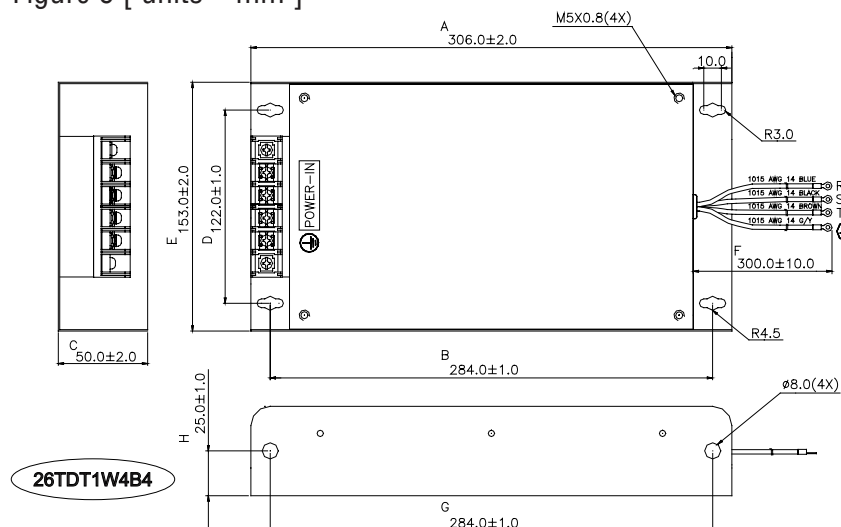


Figure 6 [units = mm]



GS2 & GS3 *DURAPULSE* Accessories – EMI Filters

Figure 7 [units = mm (in)]

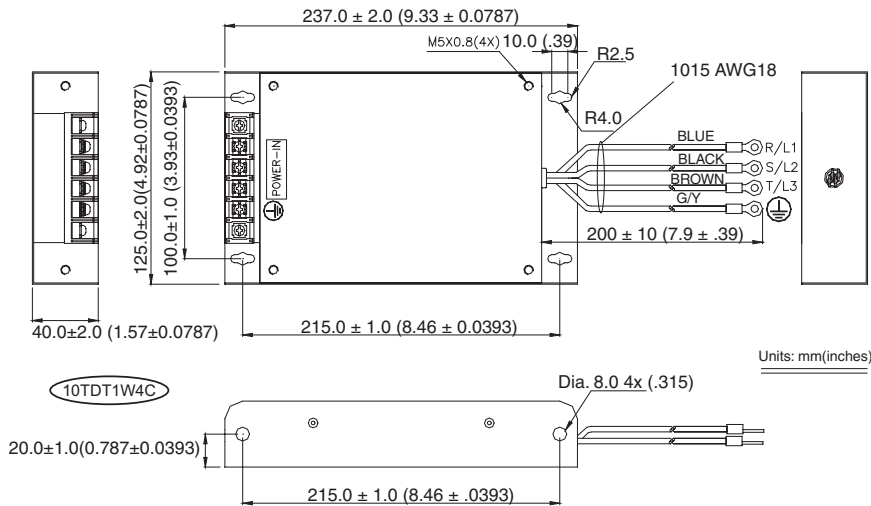


Figure 8 [units = mm (in)]

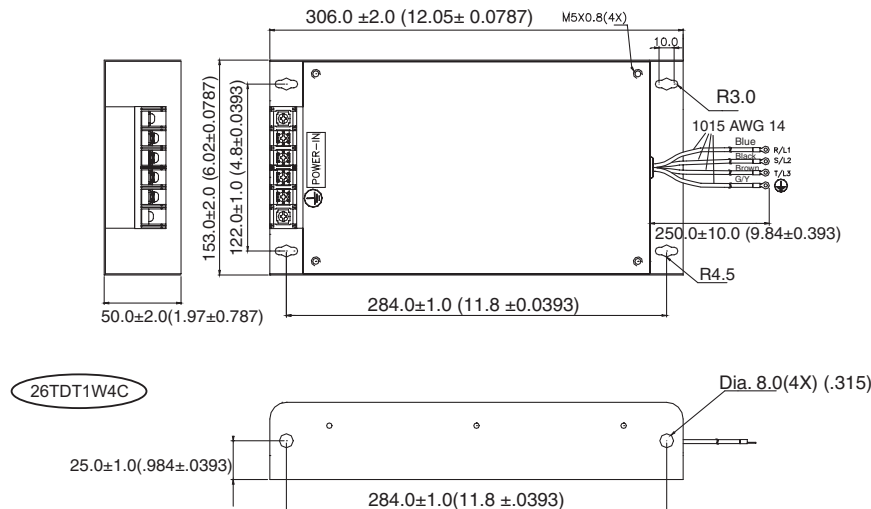
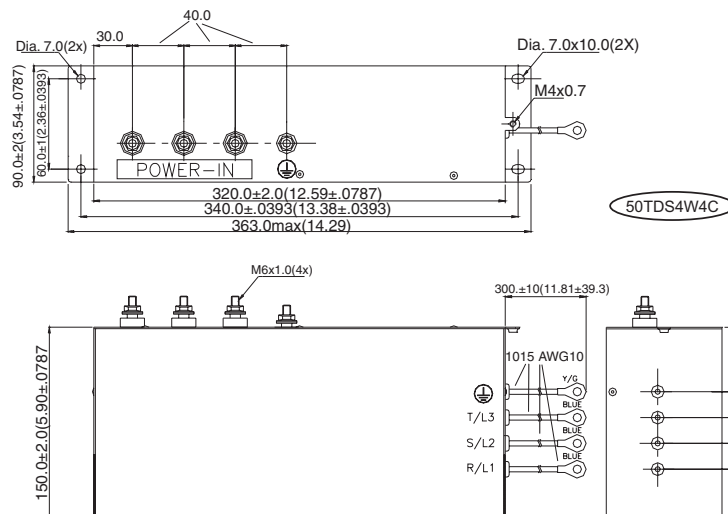


Figure 9 [units = mm (in)]



GS2 & GS3 *DURAPULSE* Accessories – EMI Filters

Figure 10 [units = mm (in)]

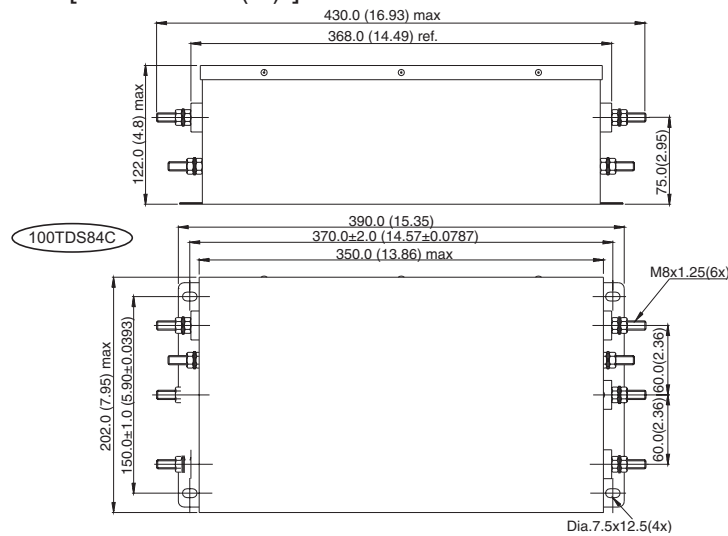


Figure 11 [units = mm (in)]

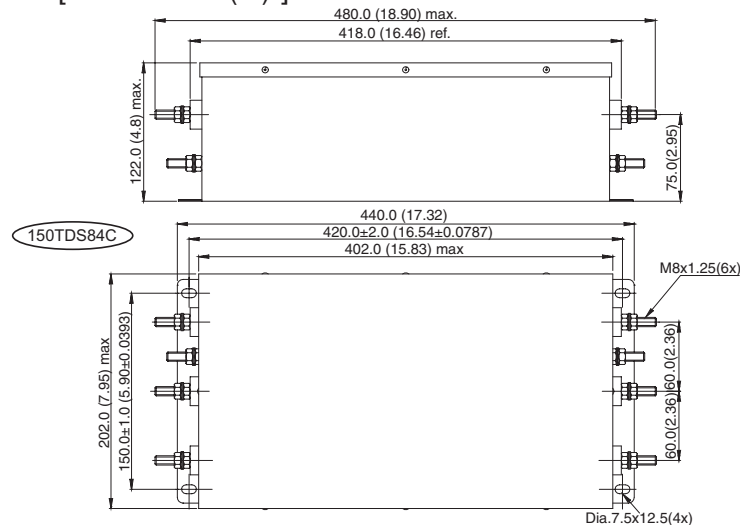
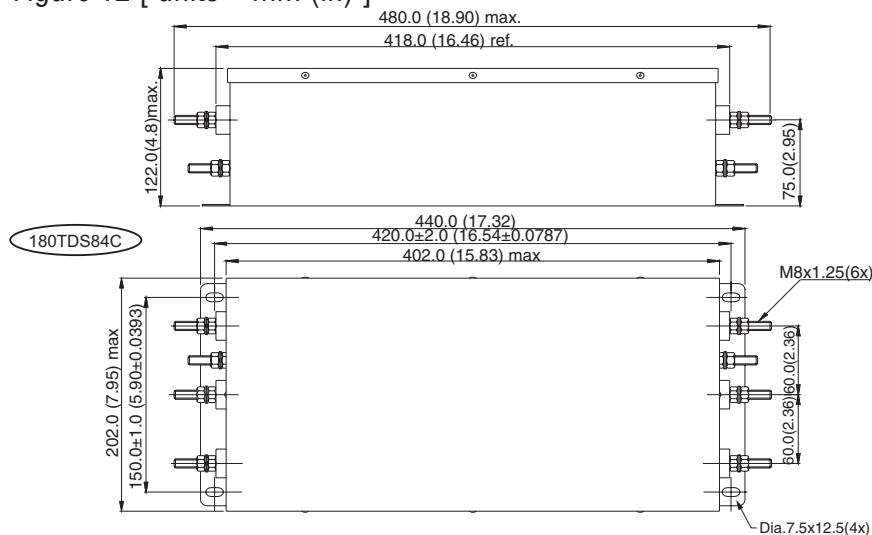


Figure 12 [units = mm (in)]



GS2 & GS3 *DURAPULSE* Accessories – EMI Filters

Figure 13 [units = mm (in)]

RF022B43AA

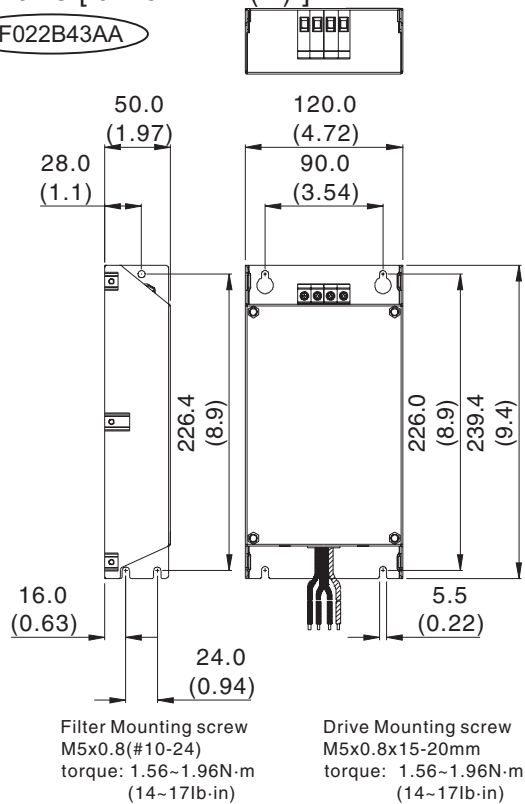


Figure 14 [units = mm (in)]

RF037B43BA

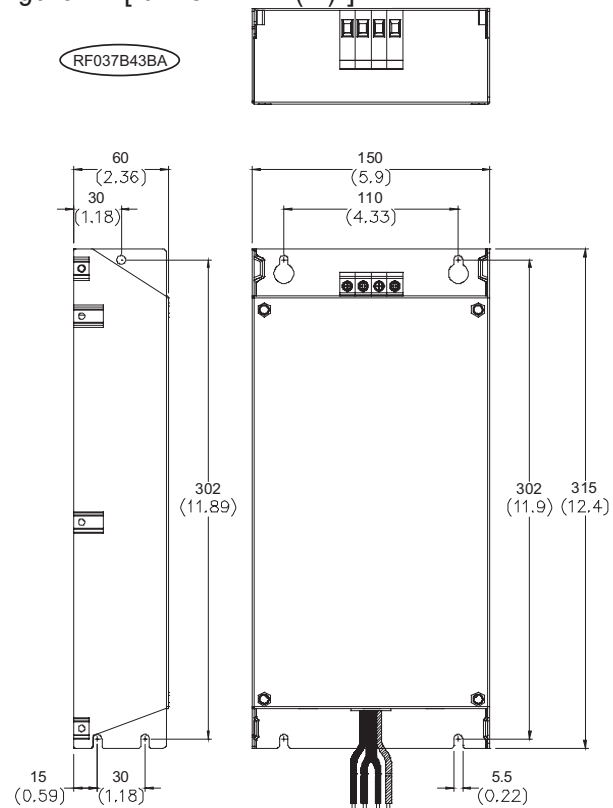


Figure 15 [units = mm (in)]

RF110B43CA

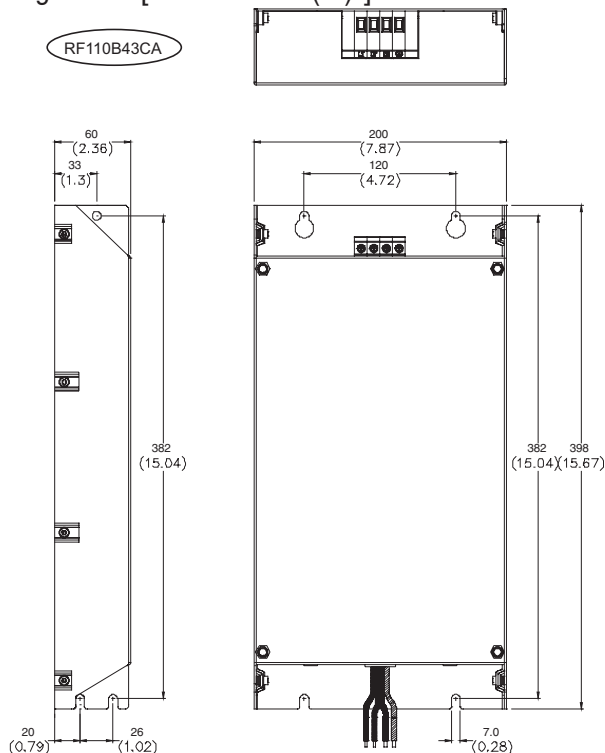
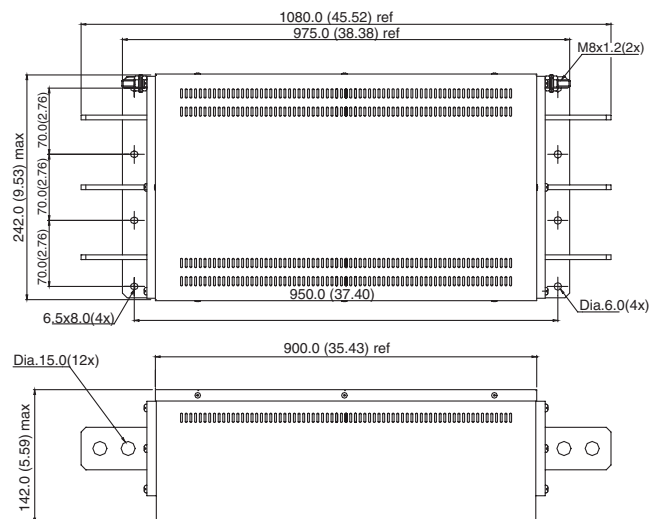


Figure 16 [units = mm (in)]

200TDDS84C



GS/DURAPULSE Drives Accessories – Line/Load Reactors

Line/Load Reactors Part Number Cross Reference for GS/DURAPULSE AC Drives

Line Reactors – LR Series – Part Number Cross Reference					
<i>AutomationDirect LR Series</i>	<i>AutomationDirect GS Series (legacy)</i>	<i>AB-1321</i>	<i>Hammond</i>	<i>MTE-RL</i>	<i>MTE-RLW</i>
<u>LR-20P5</u>	GS-20P5-LR-3PH	NA	NA	NA	NA
<u>LR-21P0-1PH</u>	GS-21P0-LR-1PH	NA	NA	NA	NA
<u>LR-22P0-1PH</u>	GS-22P0-LR-1PH	NA	NA	NA	NA
<u>LR-23P0-1PH</u>	GS-23P0-LR-1PH	NA	NA	NA	NA
<u>LR-23P0</u>	GS-23P0-LR-3PH	1321-3R12-A	RM0012N13	RL-01201	RLW-001101
<u>LR-25P0</u>	GS-25P0-LR	1321-3R18-A	RM0018P80	RL-01801	RLW-001401
<u>LR-27P5</u>	GS-27P5-LR	1321-3R25-A	RM0025P50	RL-02501	RLW-002101
<u>LR-2010</u>	GS-2010-LR	1321-3R35-A	RM0035P40	RL-03501	RLW-003501
<u>LR-2015</u>	GS-2015-LR	1321-3R45-A	RM0045P30	RL-04501	RLW-004601
<u>LR-2020</u>	GS-2020-LR	1321-3R55-A	RM0055P25	RL-05501	RLW-005501
<u>LR-2025</u>	GS-2025-LR	1321-3R80-A	RM0080P20	RL-08001	RLW-008301
<u>LR-2030</u>	GS-2030-LR	1321-3R100-A	RM0080P20	RL-10001	RLW-010401
<u>LR-2040</u>	GS-2040-LR	1321-3R130-A	RM0130P10	RL-13001	RLW-013001
<u>LR-2050</u>	GS-2050-LR	1321-3R130-A	RM0130P10	RL-13001	RLW-013001
<u>LR-4010</u>	GS-4010-LR	1321-3R18-B	RM0018N15	RL-01802	RLW-001403
<u>LR-4015</u>	GS-4015-LR	1321-3R25-B	RM0025N12	RL-02502	RLW-002103
<u>LR-4020</u>	GS-4020-LR	1321-3R35-B	RM0035P80	RL-03502	RLW-003503
<u>LR-4025</u>	GS-4025-LR	1321-3R35-B	RM0035P80	RL-03502	RLW-003503
<u>LR-4030</u>	GS-4030-LR	1321-3R45-B	RM0045P70	RL-04502	RLW-004603
<u>LR-4040</u>	GS-4040-LR	1321-3R55-B	RM0055P50	RL-05502	RLW-005503
<u>LR-4050</u>	GS-4050-LR	1321-3R80-B	RM0080P40	RL-08002	RLW-008305
<u>LR-4060</u>	GS-4060-LR	1321-3R80-B	RM0080P40	RL-08002	RLW-008305
<u>LR-4075</u>	GS-4075-LR	1321-3R100-B	RM0110P30	RL-10002	RLW-010403
<u>LR-4100</u>	GS-4100-LR	1321-3R130-B	RM0130P20	RL-13002	RLW-013003
<u>LR-5010</u>	N/A	1321-3R12-B	RM0012N25	RL-01202	RLW-001103
<u>LR-4125</u>	N/A	1321-3R160-B	RM0160P15	RL-16002	RLW-016003
<u>LR-4150</u>	N/A	1321-3R200-B	RM0200P11	RL-20002B14	RLW-020003
<u>LR-4200</u>	N/A	1321-3RB250-B	RM0250U90	RL-25002B14	RLW-025003
<u>LR-4250</u>	N/A	1321-3RB320-B	RM0320U75	RL-32002B14	RLW-032203
<u>LR-4300</u>	N/A	1321-3RB400-B	RM0400U61	RL-40002B14	RLW-041403