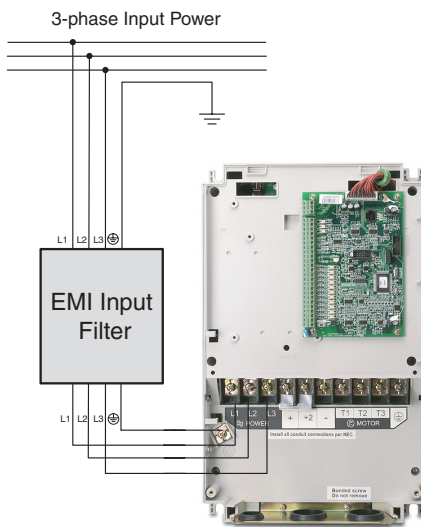


GS/DURAPULSE Accessories – EMI Filters

Overview

The CE Declaration of Conformity for the GS2 and DURAPULSE 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 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) *	20DRT1W3S	\$76.00	1-phase, 20A	Figure 1
GS2-20P5 (1-ph)		SVA-2100 (1-ph) *				
GS2-21P0 (1-ph)						
GS2-22P0 (1-ph)						
GS2-21P0 (1-ph)						
GS3-22P0 (1-ph)						
GS2-23P0 (1-ph)	-	-	32DRT1W3C	\$98.00	1-phase, 32A	Figure 2
GS3-23P0 (1-ph)						
GS2-25P0	-	-	40TDS4W4B	\$103.00	3-phase, 40A	Figure 3
GS2-27P5						
-	GS2-41P0	-	11TDT1W4S	\$103.00	3-phase, 11A	Figure 4
-	GS2-42P0					
-	GS2-43P0					
-	GS2-45P0	-	17TDT1W44	\$103.00	3-phase, 17A	Figure 5
-	GS2-47P5					
-	GS2-4010	-	26TDT1W4B4	\$123.00	3-phase, 26A	Figure 6
GS2-20P5 (3-ph)	GS2-5xxx	-	not available	n/a		
GS2-21P0 (3-ph) *	-	SVA-2040 (3-ph) *	10TDT1W4C	\$81.00	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) *	26TDT1W4C	\$113.00	3-phase, 26A	Figure 8
GS3-23P0						
GS3-25P0						
GS3-27P5	GS3-4020	-	50TDS4W4C	\$173.00	3-phase, 50A	Figure 9
GS3-2010	GS3-4025					
GS3-2015	GS3-4030					
GS3-2020	GS3-4040	-	100TDS84C	\$272.00	3-phase, 100A	Figure 10
-	GS3-4050					
GS3-2025	GS3-4060					
GS3-2030		-	150TDS84C	\$306.00	3-phase, 150A	Figure 11
GS3-2040						
GS3-2050		-	180TDS84C	\$310.00	3-phase, 180A	Figure 12
-	GS3-41P0	-	RF022B43AA	\$77.00	3-phase, 5.9A	Figure 13
-	GS3-42P0					
-	GS3-43P0					
-	GS3-45P0	-	RF037B43BA	\$111.00	3-phase, 11.2A	Figure 14
-	GS3-47P5	-	RF110B43CA	\$156.00	3-phase, 25A	Figure 15
-	GS3-4010					
-	GS3-4015					
-	GS3-4075	-	200TDDS84C	\$967.00	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.

GS/DURAPULSE Accessories – EMI Filters

Dimensions

Figure 1 [units = mm]

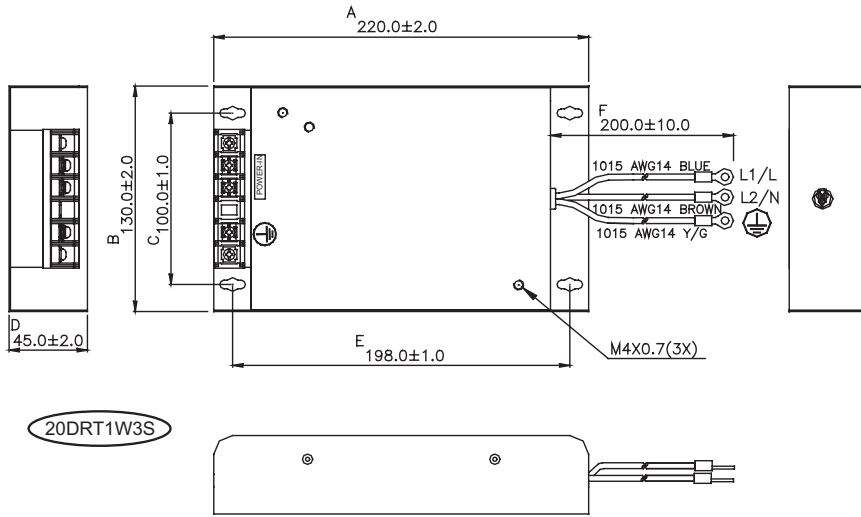


Figure 2 [units = mm]

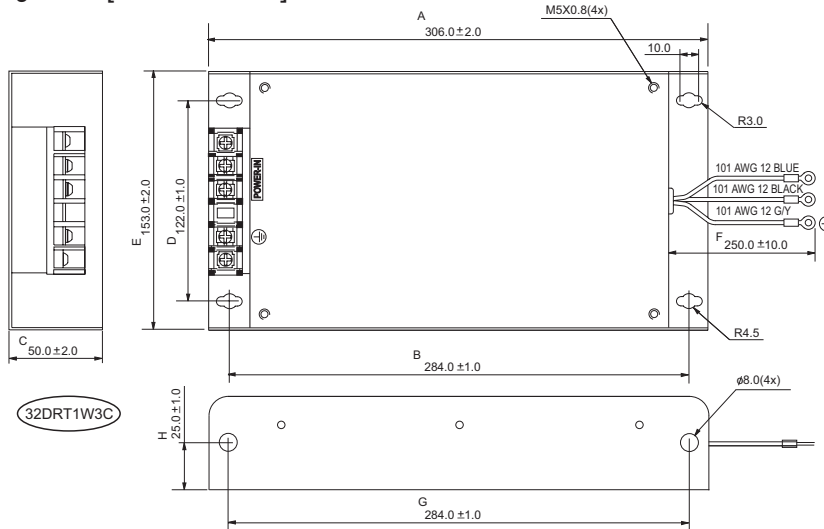
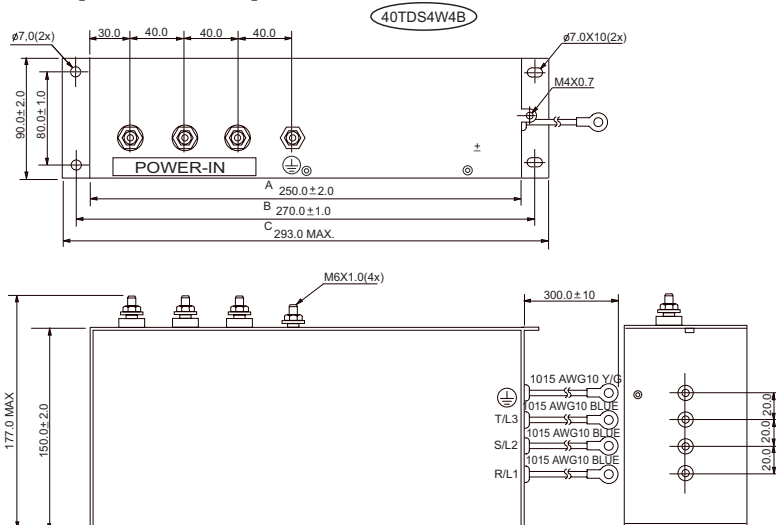


Figure 3 [units = mm]



GS/DURAPULSE Accessories – EMI Filters

Figure 4 [units = mm]

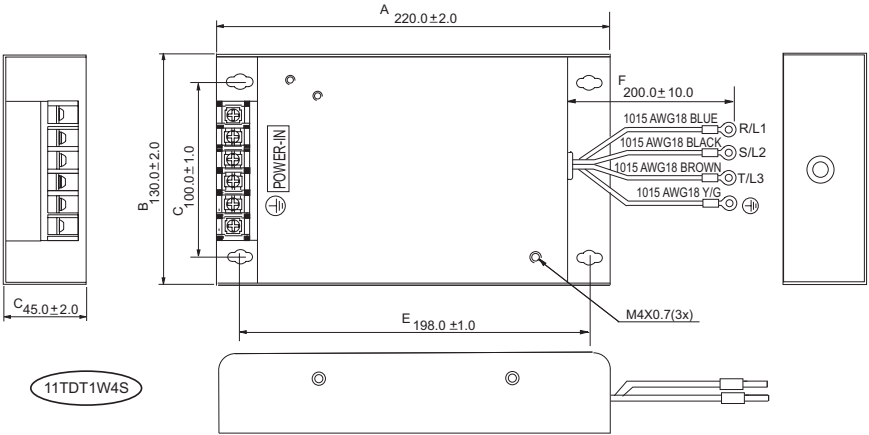


Figure 5 [units = mm]

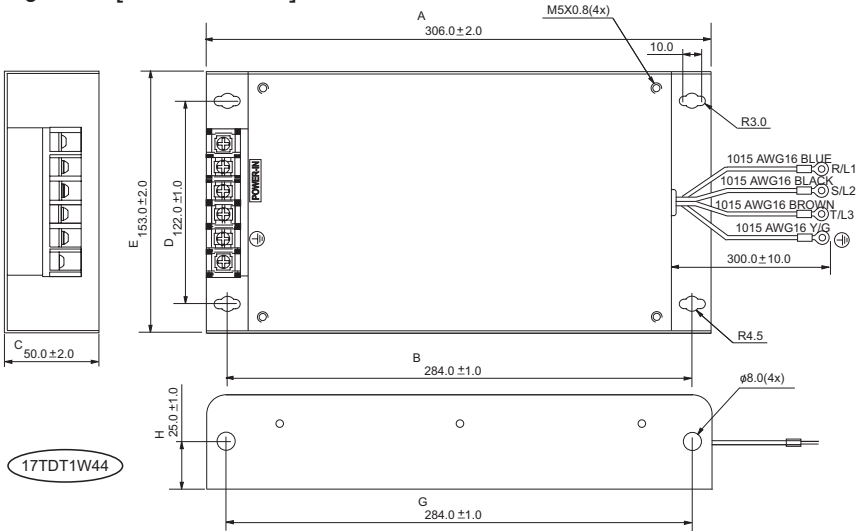
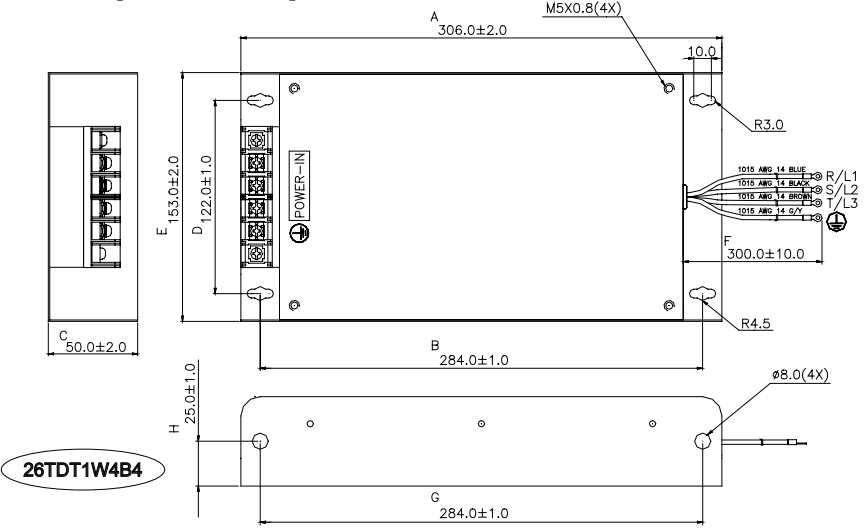


Figure 6 [units = mm]



GS/DURAPULSE Accessories – EMI Filters

Figure 7 [units = mm (in)]

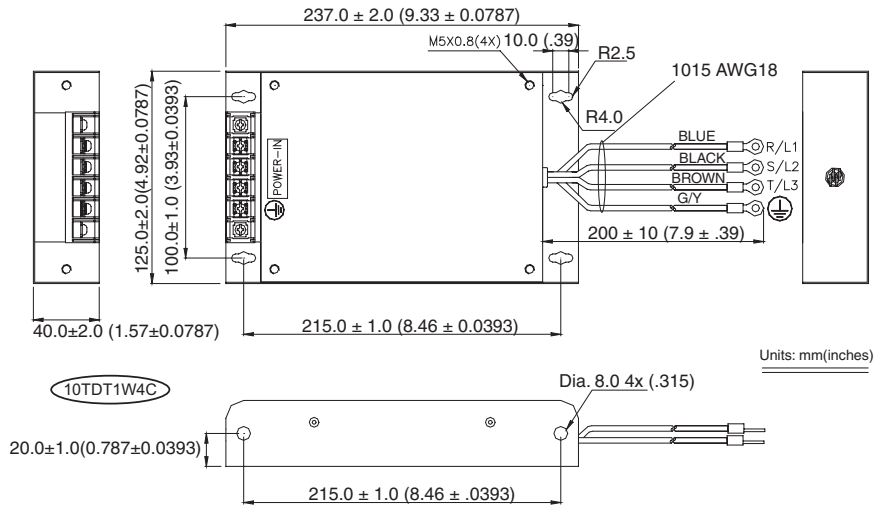


Figure 8 [units = mm (in)]

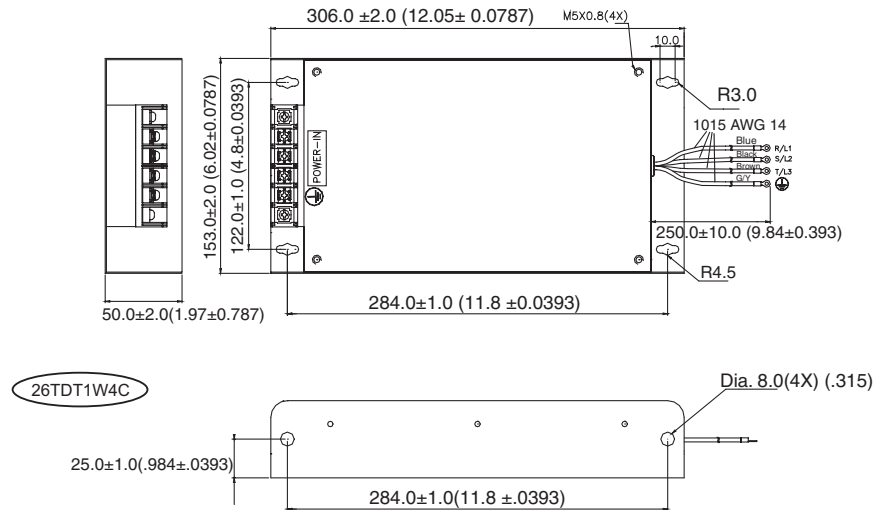
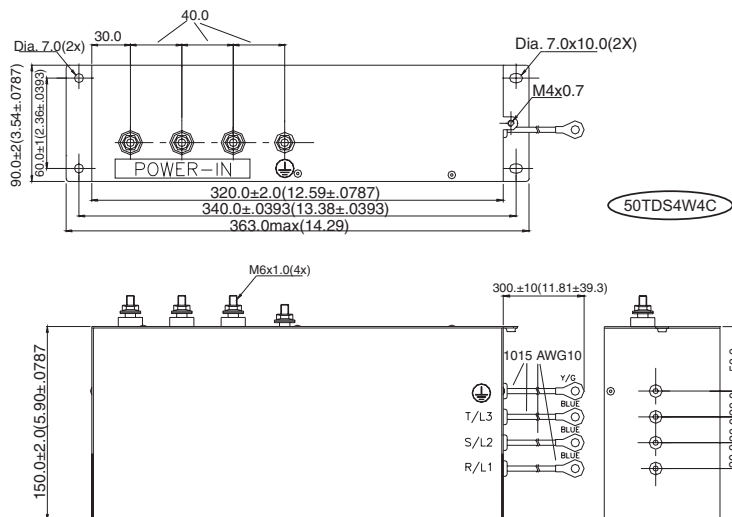


Figure 9 [units = mm (in)]



GS/DURAPULSE Accessories – EMI Filters

Figure 10 [units = mm (in)]

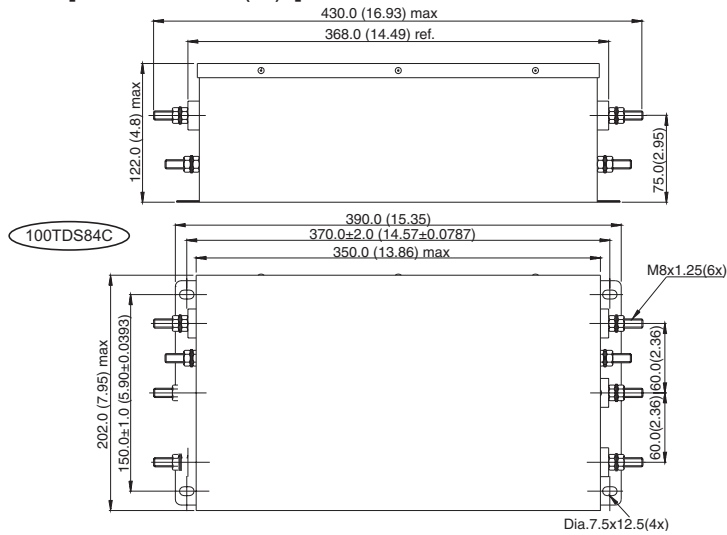


Figure 11 [units = mm (in)]

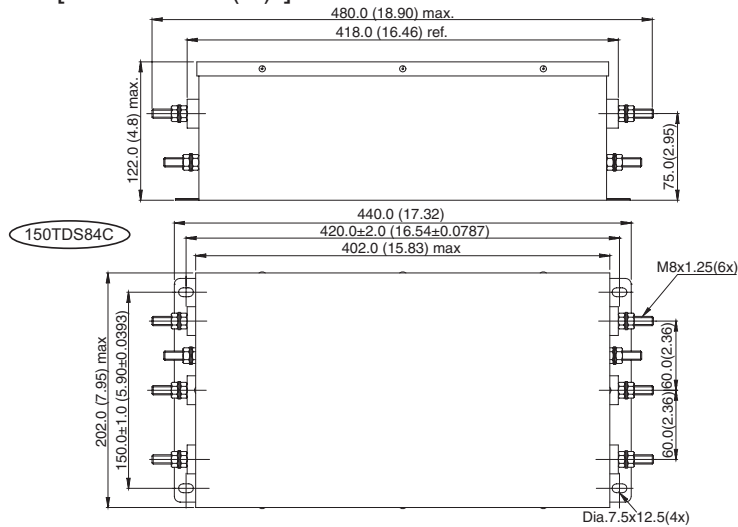
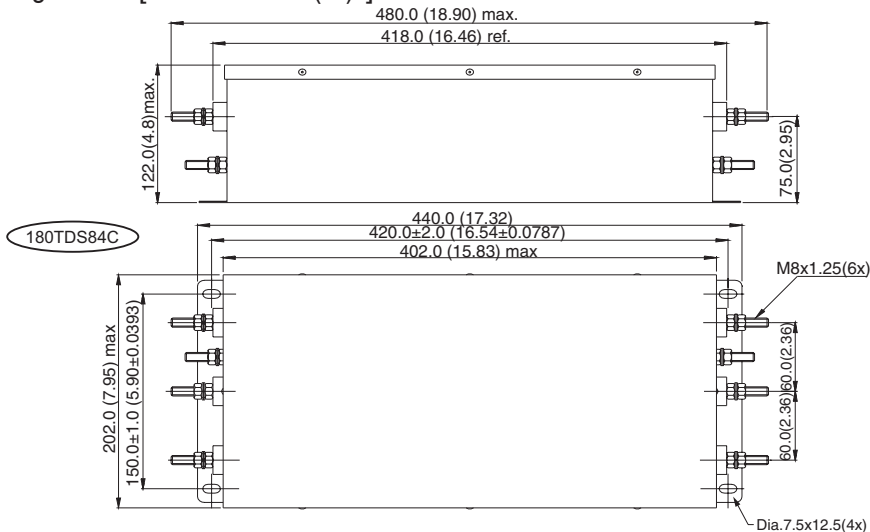


Figure 12 [units = mm (in)]



GS/DURAPULSE Accessories – EMI Filters

Figure 13 [units = mm (in)]

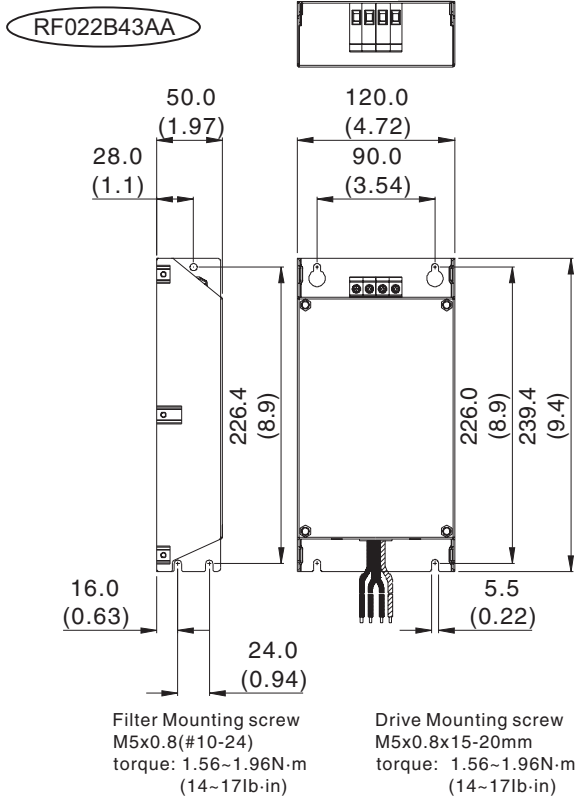


Figure 14 [units = mm (in)]

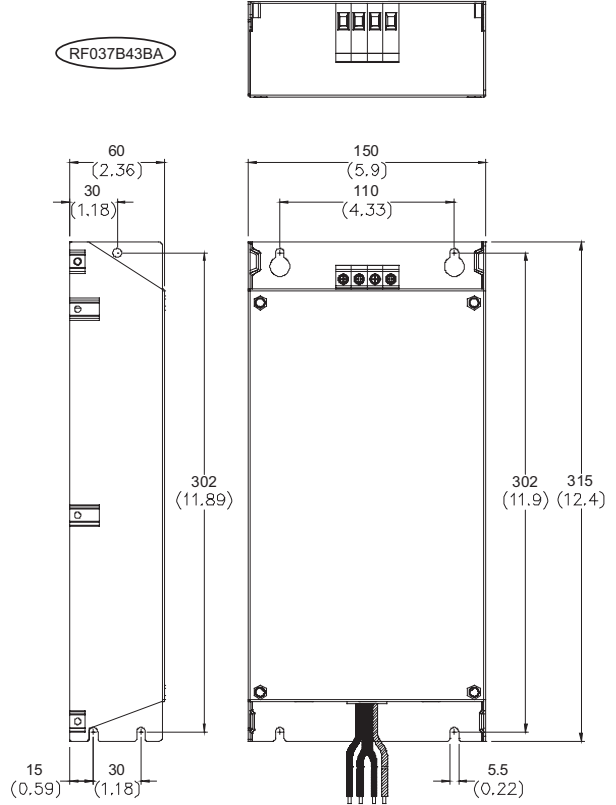


Figure 15 [units = mm (in)]

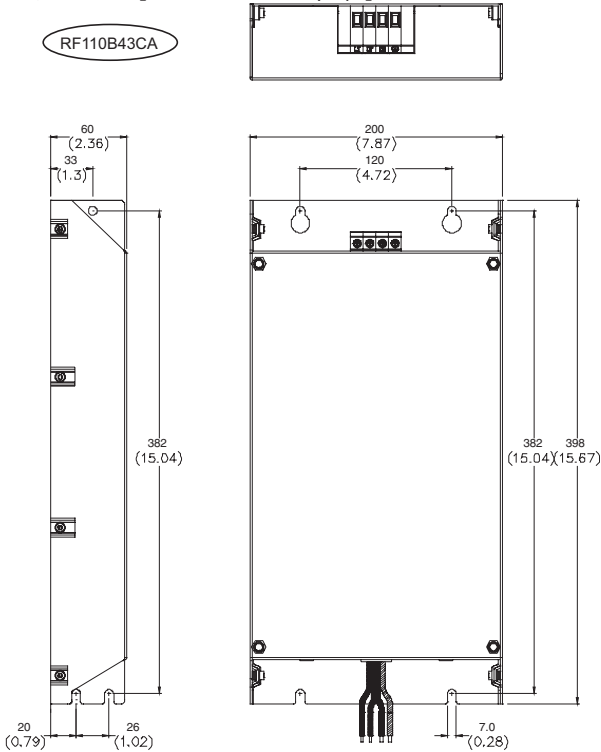
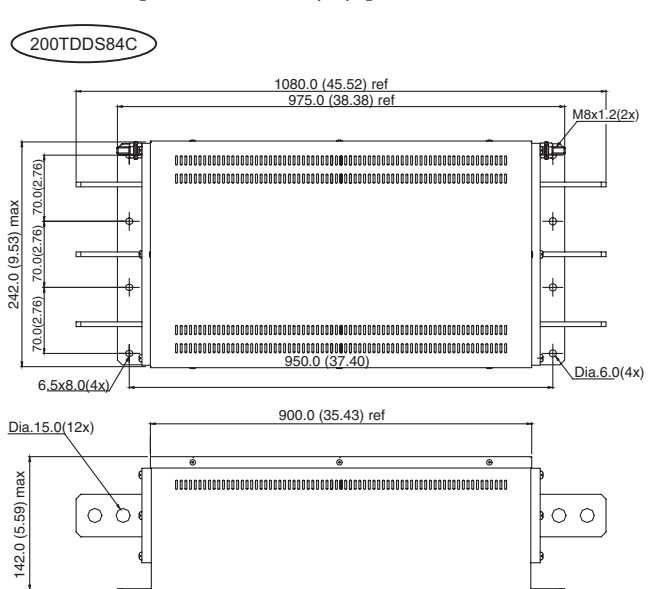


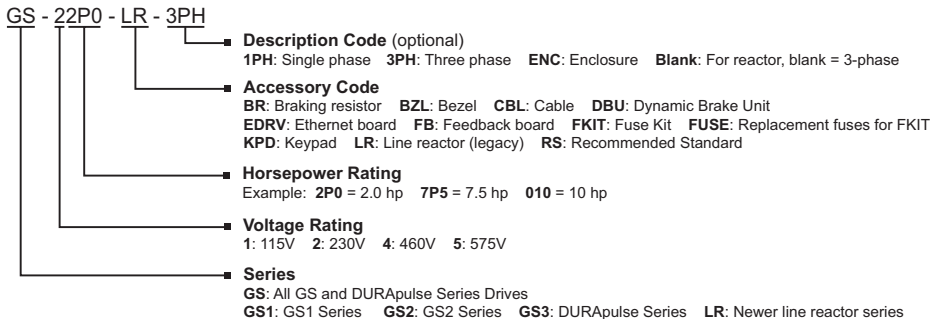
Figure 16 [units = mm (in)]



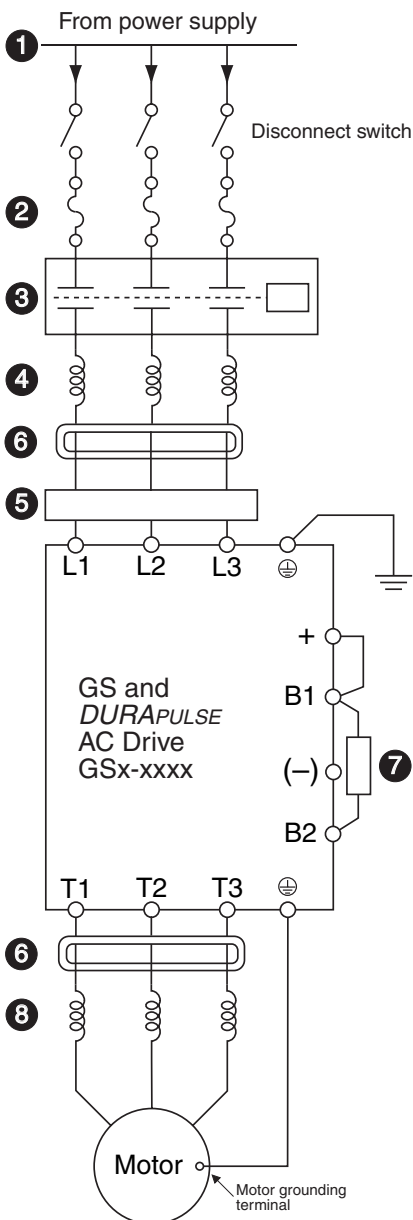
GS/DURAPULSE Accessories – Overview

Accessories – Part numbering system

Note: With the exception of the EMI filters, RF filters, and LR series line reactors, each accessory part number begins with GS, followed by the AC Drive rating, and then the relevant accessory code. Following the accessory code, you will find a description code when applicable. The diagram at right shows the accessory part numbering system.

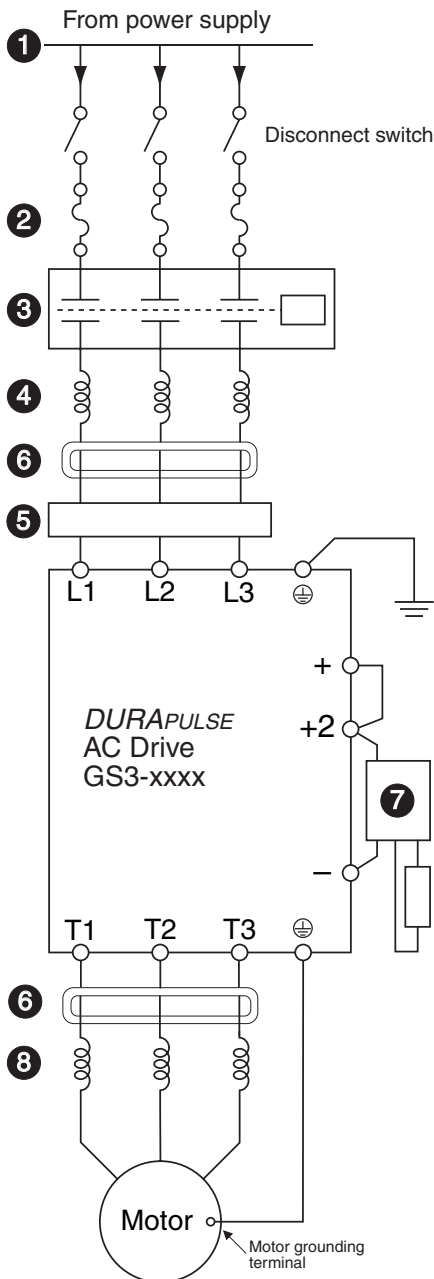


Under 20hp



GS/DURAPULSE Accessories – Overview

20hp & Over (DURAPULSE only)



1 Power Supply

Please follow the specific power supply requirements shown in Chapter 1 of the *DURAPULSE* AC Drives User Manual.

2 Fuses

(Please refer to catalog page 80 in the Drives section* of our catalog.)

Input fuses protect the AC drive from excessive input current due to line surges, short circuits, and ground faults. They are recommended for all installations and may be required for UL-listed installations.

3 Contactor (Optional)

(Refer to the Motor Controls section.)

Do not use a contactor or disconnect switch for run/stop control of the AC drive and motor. This will reduce the operating life cycle of the AC drive. Cycling a power circuit switching device while the AC drive is in run mode should be done only in emergency situations.

4 Input Line Reactor (Optional)

(Please refer to catalog page 49 in the Drives section* of our catalog.)

Input line reactors protect the AC drive from transient overvoltage conditions, typically caused by utility capacitor switching. The input line reactor also reduces the harmonics associated with AC drives. Input line reactors are recommended for all installations.

5 EMI filter (Optional)

(Please refer to catalog page 73 in the Drives section* of our catalog.)

Input EMI filters reduce electromagnetic interference or noise on the input side of the AC drive. They are required for CE compliance and recommended for installations prone to or sensitive to electromagnetic interference.

6 RF filter (Optional)

(Please refer to catalog page 79 in the Drives section* of our catalog.)

RF filters reduce the radio frequency interference or noise on the input or output side of the inverter.

7 Braking Unit & Braking Resistor (Optional)

(Please refer to catalog page 66 in the Drives section* of our catalog.)

Dynamic braking allows the AC drive to produce additional braking (stopping) torque. AC drives can typically produce between 15% & 20% braking torque without the addition of any external components. The addition of optional braking may be required for applications that require rapid deceleration or high inertia loads.

8 Output Line Reactor (Optional)

(Please refer to catalog page 49 in the Drives section* of our catalog.)

Output line reactors protect the motor insulation against AC drive short circuits and IGBT reflective wave damage, and also “smooth” the motor current waveform, allowing the motor to run cooler. They are **recommended** for operating “non-inverter-duty” motors and when the length of wiring between the AC drive and motor exceeds 75 feet.

**The Drives section is in Book 2 of current version of our catalog, or you can download PDF of section here.*