



APPLICATION NOTE

Product Family: DURApulse Drives (GS3)

Number: AN-GS-019

Subject: Durapulse Drive Compatibility with Single Phase Input Voltage.

Date: 2/20/2008

Revision: Original

General:

This application note provides specifications and instructions for the application of Durapulse AC drives with single phase input voltage. Specifications include input voltage rating, input current rating and accessory components suitable for use with Durapulse drives when supplied with single phase input voltage. Instructions detail the connection of electrical conductors to the drive for single phase input supply.

This application note applies ONLY to the following Durapulse models:

- GS3-21P0 – 230V Class, 1 Horsepower
- GS3-22P0 – 230V Class, 2 Horsepower
- GS3-23P0 – 230V Class, 3 Horsepower

Specifications contained herein have been verified as correct by the manufacturer and replace the specifications contained within AutomationDirect.com specification documents and the Durapulse User Manual, GS3-M.

Specifications:

Drive Model:	GS3-21P0	-	GS3-22P0	-	GS3-23P0
Input Voltage	----- Single / Three Phase, 200 / 208 / 220 / 230 / 240 VAC -----				
Input Frequency	50 / 60Hz	-	50 / 60Hz	-	50 / 60Hz
Input Current (1Ph / 3Ph)	11.9/5.7A	-	15.3/7.6A	-	22.0/15.5A

Refer to the Dura pulse User Manual, GS3-M for a complete list of specifications.

Instructions:

Input voltage connection (Terminals L1, L2, L3)

Connection of input voltage is accomplished by connecting to any two of L1, L2 or L3 terminals for single phase input voltage within the specified range. The unused "L" terminal requires no connection for operation of the drive.



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Accessories:

Accessory components suitable for use with Durapulse drives supplied with single phase input voltage are listed below.

Model	Line Reactor	EMI Filter	Fuse kit	Replacement Fuse	Fuse Type
GS3-21P0	GS-21P0-LR-1PH	20DRT1W35	GS-21P0-FKIT-1P	GS-21P0-FUSE-1P	A3T30
GS3-22P0	GS-22P0-LR-1PH	20DRT1W35	GS-22P0-FKIT-1P	GS-22P0-FUSE-1P	A3T45
GS3-23P0	GS-23P0-LR-1PH	32DRT1W3C	GS-23P0-FKIT-1P	GS-23P0-FUSE-1P	A3T60

Refer to the AutomationDirect.com website for complete descriptions and specifications for these components.

Technical Assistance:

If you have questions regarding this Application Note, please contact us at 770-844-4200 for further assistance.