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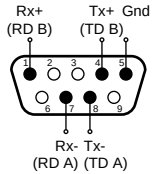
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Gemini GV Digital Servo Drive

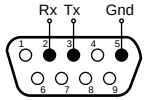
RS-232/485 Connector – Configuration Port

To configure all drive parameters, connect a PC or HPC to this port. Use Motion Planner or Pocket Motion Planner for drive configuration. (Not ASCII protocol.)

RS-485 Connections



RS-232 Connections



Male Pins

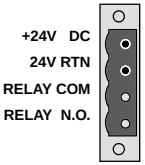
+24VDC/Relay Connector

User supplies +24VDC for "keep alive" power to drive:
19.2 – 28.8 VDC
500 mA minimum

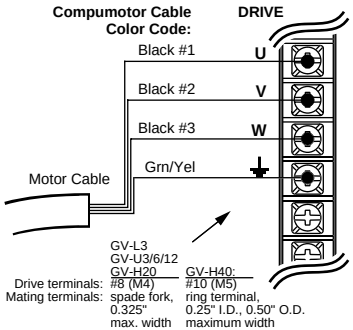
When drive is enabled, it holds relay closed.

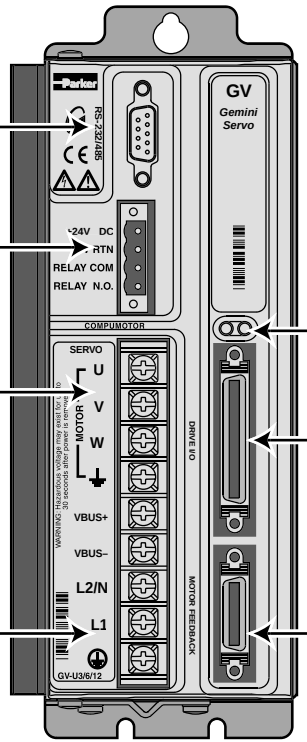
Relay rating: 5A at 24VDC or 120VAC.

If drive is faulted or disabled, relay will open. (Typical use: control of motor brake.)

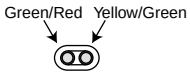


Motor Output Connections





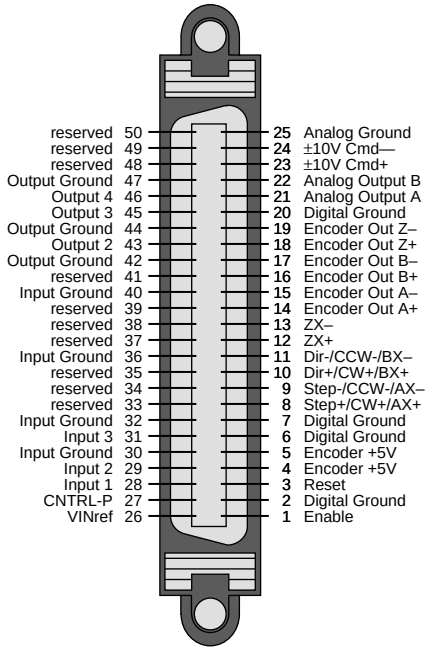
LEDs



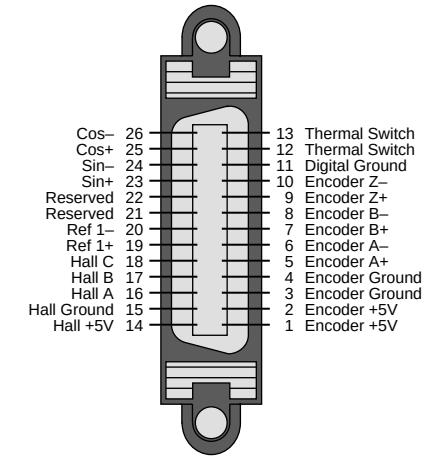
LED Color:

Left	Right	Indicated State
Off	Yel	Initialization
Red (flash)	Off	Awaiting flash download
Red (flash)	Yel (flash)	Programming flash memory
Red	Grn	Keep alive mode
Grn	Grn (flash)	Incoming steps (variable rate)
Grn	Yel/Grn (flash)	Autorun mode
Red	Off	Drive not enabled Drive faulted
Grn	Off	Drive ready

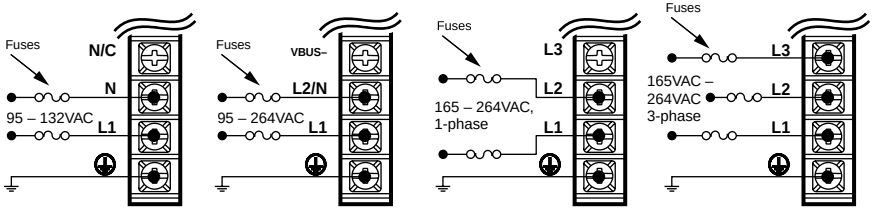
50 Pin DRIVE I/O Connector



26 Pin MOTOR FEEDBACK Connector



AC Input Connections



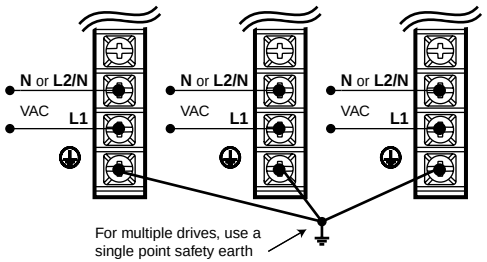
GV-L3n at 120VAC

GV-U3n/6n/12n at 120/240VAC

GV-H20n at 208/ 240VAC 1-phase

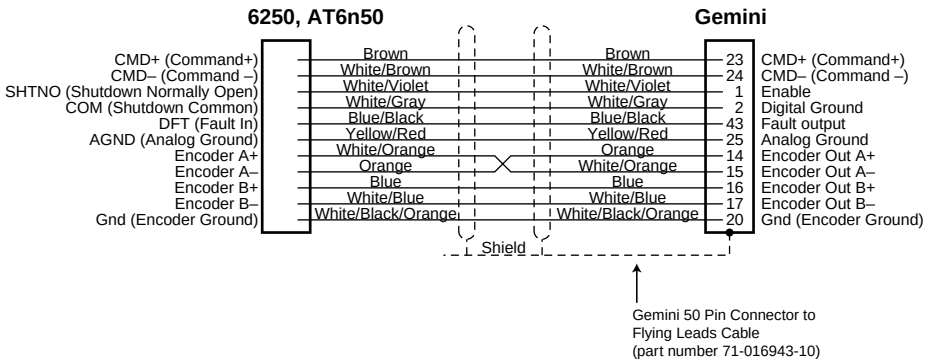
GV-H20n/H40n at 208/240VAC 3-phase

Multiple Drive Connections

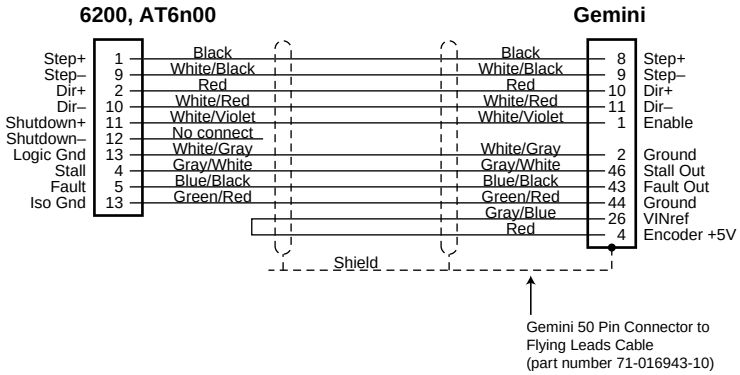


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6250 Connections to Gemini Drive



6200 Connections to Gemini Drive



Protective Circuits

Short Circuit Protection
Inrush Current Protection
Drive Overtemperature Protection
Motor Overtemperature Protection
Undervoltage Protection
Overvoltage Protection
Current Foldback
Regeneration Protection

Environmental Specifications

Operating Temperature	Still Air: 45°C (113°F) Moving Air: 50°C (122°F)
Storage Temperature:	-40°C – 85°C (-40°F – 185°F)
Humidity:	0 – 95%, non-condensing
Shock:	15g, 11msec half sine
Vibration:	10 – 2000 Hz at 2g

Troubleshooting

Commonly used status commands (binary status bits are numbered 1 to n, from left to right):

TERRLG	Error log reports the last 10 error conditions (cleared with CERRLG).
TAS	General report, including fault conditions.
TASX	Additional report of conditions not covered with TAS.
TCS	If TASX bit #7 or bit #28 is set, you can identify the cause with TCS.
TINO	Bit #6 indicates status of Enable input ("1" = OK to enable drive).
TIN	Status of digital inputs, including end-of-travel inputs.
TOUT	Status of digital outputs.

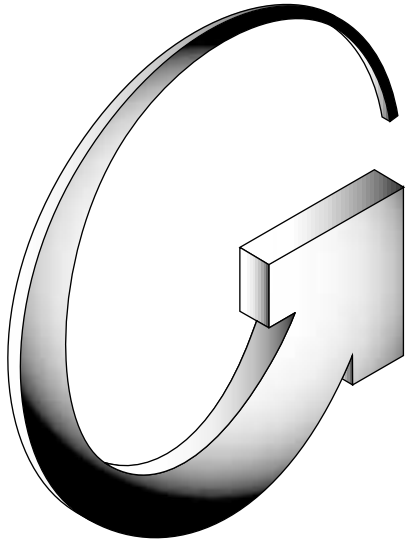
You must configure all motor parameters. Be sure to follow the drive configuration procedure (see *Chapter 2 Installation*).

Any fault condition causes the drive to shut down.

The drive can not be enabled (DRIVE1) unless the Enable input is grounded and the Reset input is not grounded.

Use one of three methods to reset the drive (all command settings are remembered after reset):
Issue the RESET command.
Momentarily close the Reset input.
Cycle power to the drive.

Quick Reference Guide



Gemini GV Servo Drive

Compumotor Division
Parker Hannifin Corporation
p/n 88-017779-01 C (effective December 1, 2001)

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