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TECHNOLOGY GROUP

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Full-service, independent repair center
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along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

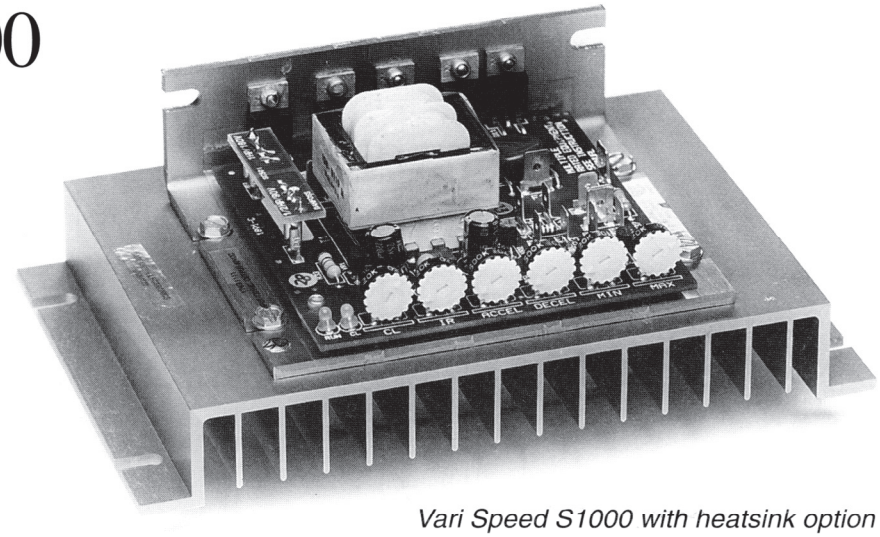
- Critical and expedited services
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Expert team | Trust guarantee | 100% satisfaction

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Find the *Graham Transmissions 176B1111* at our website: *Click HERE*

Vari Speed® S1000



Vari Speed S1000 with heatsink option

The Vari Speed® S1000 is a high-performance DC motor speed control designed for maximum reliability in 1/20 to 2 HP applications. The surface mount technology incorporated into the design reduces package size and improves reliability… creating a savings in both cost and space for you.

Options

Heatsink: 176B1122
For use in higher horsepower applications.

Plug-on Terminal:

The plug-on terminal board provides easy wiring for standard 14–20 AWG wire.

Refer to drawing for proper terminal wiring. Note: Wiring to terminal board before installation to Vari Speed S1000 may simplify procedure.

Terminal board part numbers:
- 176B1113, 120 VAC
- 176B1114, 240 VAC

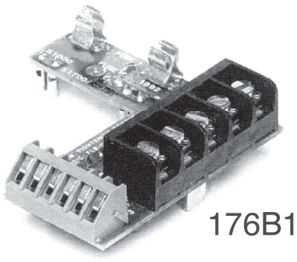
Potentiometer Kit: 176B1121

- Includes a 5 K ohm, 1W pot, mounting hardware, knob and dial plate

Design Features	Customer Benefits
Surface mount technology reduces size and improves reliability	Less costly enclosures and increased uptime
Current limit and run LED indicators	Reduced set-up time and decreased downtime
Unique circuitry virtually eliminates temperature and voltage drift	Precise control
Horsepower selectable via plug-in resistor permits component standardization	Reduced inventory
User-selectable inhibit control for operation with open or closed contact	Allows logic flexibility and convenience
Run/Stop logic control circuitry	Eliminates need for costly power switching components
Exclusive one-year replacement warranty	No service hassles
UR/cUR recognized	

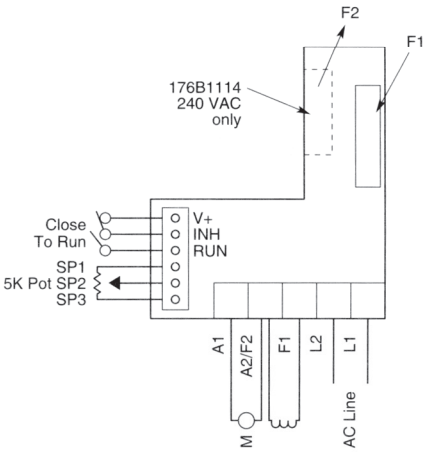
Current Sensor Resistor:

- Plug-on design allows for easy field modification
- Refer to ratings chart for correct part number

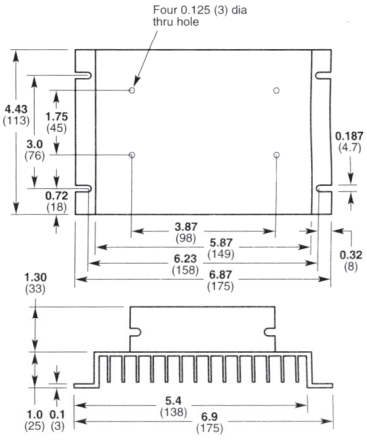


176B1113

Plug-on terminal option



Plug-on Terminal Wiring Schematic



Heatsink Dimensions (176B1122)

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Control Specifications

Service factor: 1.0

Duty: continuous

Overload Capability:
150% for one minute

Speed Regulation:

- ±2% of base speed (for 95% load change)
- ±1% of base speed due to line voltage fluctuation

Speed Range: 50:1 at full torque

Speed Input:

- 5K ohm potentiometer 1 watt
- 0–5 or 0–10 VDC process signal, (must be isolated)

Adjustments:

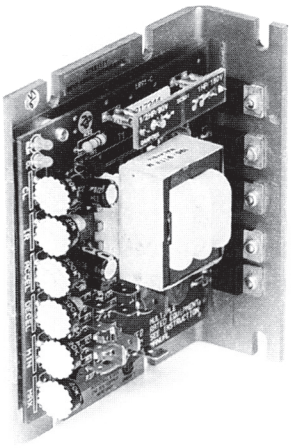
- Minimum speed (0–50% motor base speed)
- Maximum speed (50–110% motor base speed)
- Current (torque) limit (10–150% control rating)
- IR compensation (0–25% rated output)
- Acceleration (0.5–15 sec.)
- Deceleration (0.5–15 sec.)

AC Line Voltage Variation:
Rated voltage (±10%)

AC Line Frequency: 48 to 62 Hz

Ambient Temperature:
32°F to 131°F ; (0°C to 55°C)

Elevation:
Up to 3,300 ft. without derating



SELECTION

Voltage	S1000 Unit	HP	Armature Current (amps)	Current Sense Resistors	Heat Sink Option	Terminal Board Option
120 V 1ø 50/60 Hz Armature Voltage 0-90 VDC	176B1111	1/8	2.4	176B1116	Not Req'd	176B1113 176B1129
		1/4	4.0	176B1117	Not Req'd	
		1/2	6.8	176B1118	Not Req'd	
		3/4*	9.6	176B1119	176B1122	
		1*	12.2	176B1120	176B1122	
240 V 1ø 50/60 Hz Armature Voltage 0-180 VDC	176B1112	1/4	2.0	176B1116	Not Req'd	176B1114 176B1130
		1/2	3.4	176B1117	Not Req'd	
		1	6.1	176B1118	Not Req'd	
		1–1/2*	8.3	176B1119	176B1122	
		2*	10.8	176B1120	176B1122	

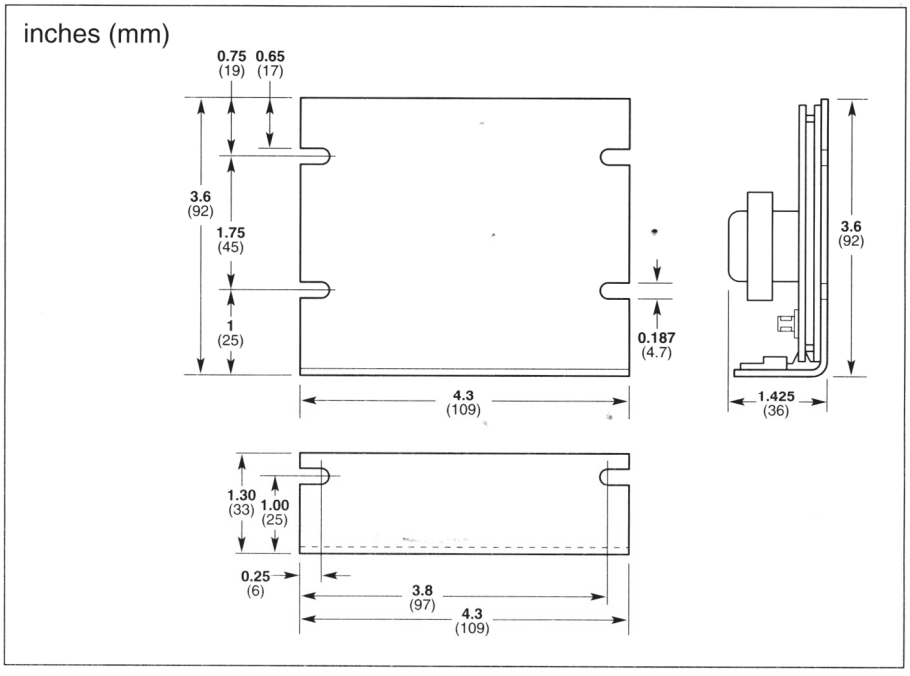
* External Heatsink: P/N (176B1122) or equivalent required.

Pump Control Options Available

(consult factory)

S1000 Dimensions

inches (mm)



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