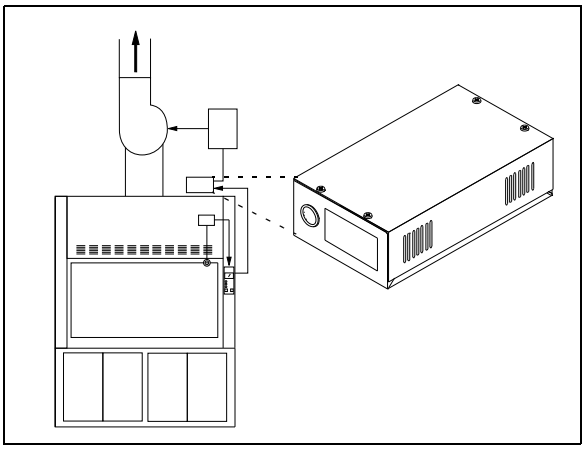
Phoenix Controls *Corporation*

DIB100 DRIVE INTERFACE BOARD

The Phoenix Controls Drive Interface Board (DIB100) provides signal conditioning for all applications utilizing a variable speed drive. The DIB100 consists of an interface card installed in an enclosure that is mounted on top of a fume hood or adjacent to the drive (see right).



DIB100 as part of a fume hood exhaust system.

FEATURES

The Phoenix Controls DIB100 has the following features:

- Provides buffering and filtering to all non-grounded signals connected to the drive.
- Serves as a junction point between the variable speed drive and the Phoenix Controls fume hood monitor, make-up air controller, or tracking valve.

APPLICATION

The DIB100 is strictly for use with the PCD300 series variable speed drive. Contact Product Support for your application.

- Drive systems in applications with make-up air controllers or tracking valves power the fume hood monitor from the system power supply through the DIB100 connections.
- Standalone drive system applications require a wall-mounted power supply to power the fume hood monitor and DIB100.

ORDERING GUIDE

DIB100 – ____

BASE NUMBER
(One DIB100 is required for each drive.)

OPTIONS
MAC = Required when a Phoenix Controls valve and drive are used with the same hood (e.g., auxiliary air hoods). Includes Scaling Function Module.

SPECIFICATIONS

Enclosure
NEMA-1

Dimensions
10" L x 6" W x 3.2" D (254 x 152 x 81 mm)

Approx. Weight
6 lbs. (2.6 kg)

Operating Range
32-122 °F (0-50 °C) ambient

Power Requirements
± 15 Vdc, ±5%, @ 0.010 amp

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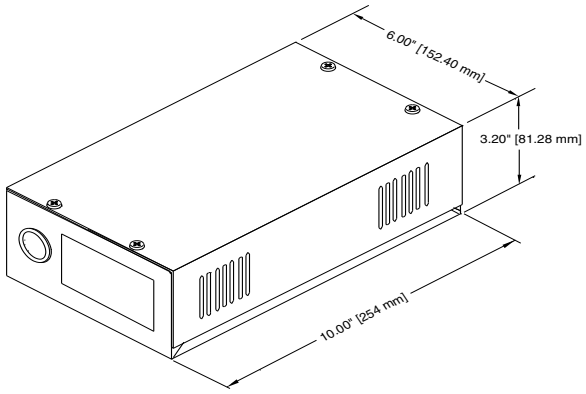
INSTALLATION

Install the unit in an area where it will be protected from:

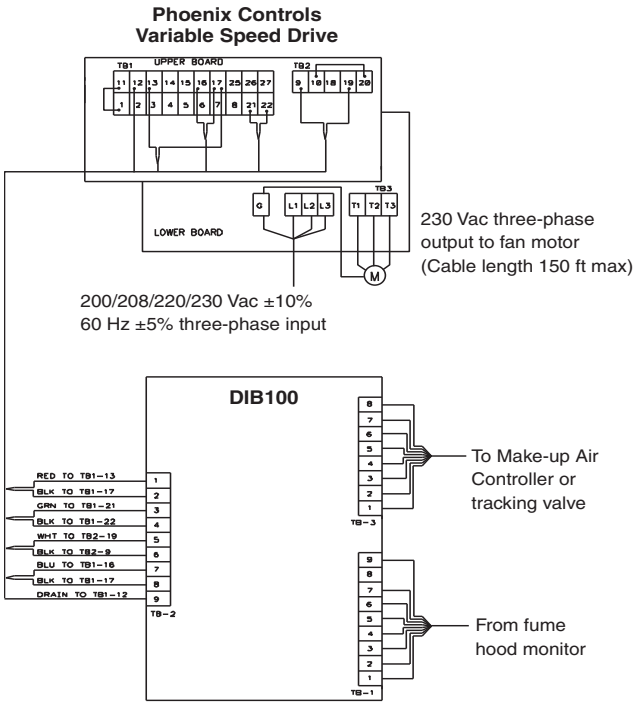
- direct sunlight, rain, or moisture
- corrosive gases or liquids
- extreme temperatures
- vibration, airborne dust, or metallic particles

The unit must have a minimum clearance of one 1 inch (2.54 cm) around each vented side. Leave a minimum of 3 feet (1 m) between the DIB100 and the variable speed drive.

Remove the cover and mount the back plane with four mounting screws. Terminate all wiring and replace cover.



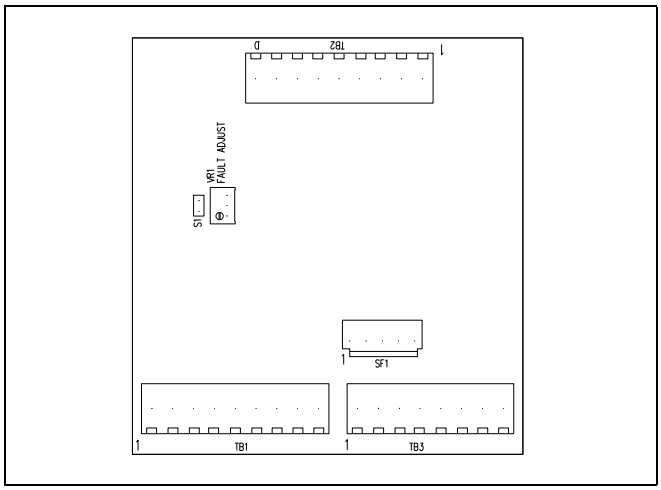
POINTS & WIRING



DIB100 typical wiring diagram.

TERMINAL BLOCK POINTS

	1	2	3	4	5	6	7	8	9
TB1 (monitor)	+15 V	GND	-15V	CMD	FDBK	Alarm	Fault thres.	—	Sash posit.
TB2 (drive)	CMD	CMD comm.	FDBK	FDBK comm.	Alarm	Alarm comm.	Fault thres.	F.T. comm.	Cable drain
TB3 (MAC or valve)	+15 V	GND	-15V	CMD	FDBK	Alarm	—	Sash posit.	N/A



MAINTENANCE

The DIB100 requires no ongoing preventative maintenance. Once the field engineer has completed the field setup, the DIB100 will provide years of continuous operation. Replacement boards are available.

Replacement Part	Part Number
DIB board	800-230-012

TROUBLESHOOTING

Refer to the X30 Series Fume Hood Monitors product data sheet for system troubleshooting.

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