

Drive	Input Voltage @ 50/60 Hz (VAC)	Output Voltage Range (VAC)	Max. Armature Current	HP Rating @ 115 VAC Output	HP Rating @ 230 VDC Output	Enclosure	Reversing	Isolation	UL Listed cUL US LISTED	CSA SP	CE TUV TUV
VFD4X04-D230-PCM	115 / 230	0-230	4	—	1/6 - 1	NEMA 4X	YES	0-5 or 0-10 VDC 4-20 mA	YES	—	—
VFD05-D230-PCM	115 / 230	0-230	5	—	3/8 - 1 1/2	CHASSIS	YES	0-5 or 0-10 VDC 4-20 mA	YES	—	—
VFD4X05-D230-PCM	115 / 230	0-230	5	—	3/8 - 1 1/2	NEMA 4X	YES	0-5 or 0-10 VDC 4-20 mA	YES	—	—

The Volts/Hertz, PWM, VFD-PCM Series have all the features of the original VFD Series with several enhancements. They include a rugged steel or plastic NEMA 4X enclosure, an isolated front end, minimum speed adjustment potentiometer (pot), output voltage doubling, DC injection braking, and automatic or manual restart when power is restored. The VFD-PCM Series accepts reference signals that are 0-5 VDC, 0-10 VDC or 4-20 mA without an additional isolation card. The DC injection braking feature comes with two additional calibration potentiometers (Braking Current and Braking Time) for easy set up. There is never a need to program the VFD-PCM Series. The dual voltage VFD-PCM series has a “doubling” jumper that can be set to output 230 VAC to the motor when only 115 VAC is available. Another jumper selectable option is for choosing automatic or manual restarting. The features, flexibility and compact size of the VFD-PCM Series make it the ideal choice for AC motor applications under 1.5 HP in adverse surroundings.

See page 54 for an in-depth comparison of the different AC drives.



VFD05-D230-PCM

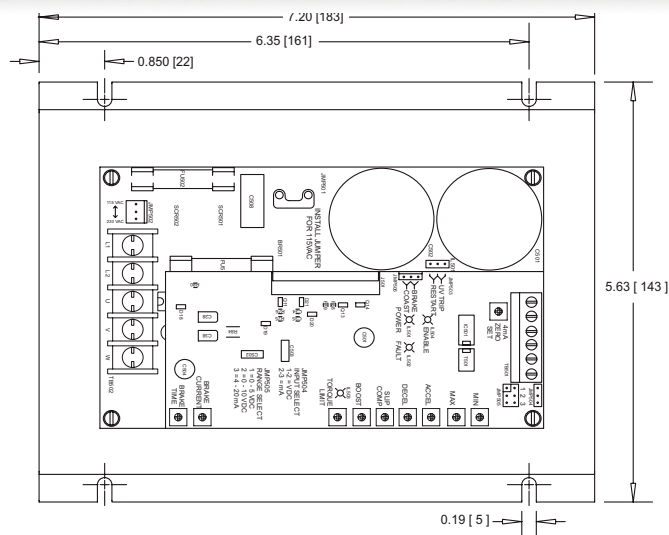


VFD4X04-D230-PCM



VFD4X05-D230-PCM

### VFD05-D230-PCM DIMENSIONS



Height: 3.30 [84]

All dimensions in inches [millimeters]

Dimensions of drives not shown above can be found on page 60.

Wiring diagrams can be found on page 71.

### FEATURES

- **Enclosure Options:** Chassis or NEMA 4X with steel or plastic.
- **Isolated inputs:** Accepts floating or grounded signals 0-10 VDC, 0-5 VDC or 4-20 mA.
- **Doubler mode:** Enables the use of a 230 VAC single or three phase motor with a 115 VAC single-phase supply. Do not use 115 VAC motors on these models.
- **Control a variety of motors:** 3-phase induction motors, single-phase permanent split capacitor (PSC), shaded pole and synchronous motors.
- **User adjustable calibration pots:** Minimum Speed, Maximum Speed, Current Limit, Slip Compensation, Boost, Acceleration, Deceleration, Zero Set, Brake Current and Brake Time. No programming necessary.
- **Diagnostic LED's:** Power, Fault, Enable and Torque limit.
- **Stopping modes:** DC injection braking or coast (jumper selectable).
- **Adjustable 4 to 16kHz switching frequency:** Quiet motor operation or reduced electrical noise.
- **Torque “foldback”:** Allows up to 200% torque to overcome intermittent peak loads.
- **Additional features:** Auto or manual restart after low input voltage fault (jumper selectable), line fusing, isolated enable and direction inputs.
- **RoHS:** All VFD-PCM series models are RoHS compliant.