

## DC Input, Microprocessor-based 4Q PWM

Drive	Input Voltage (VDC)	Output Voltage Range (VDC)	Cont. Armature Current	1 Min Peak Armature Current	HP Rating @ 12 VDC Output	HP Rating @ 24 VDC Output	Enclosure	Reversing	Field Supply (VDC)	UL Listed	CSA	CE TUV
DC6-12/24-4Q	12 / 24	Up to 95% of input	3	6	1/100 - 1/30	1/50 - 1/15	CHASSIS	YES	-	-	-	-
DC20-12/24-4Q	12 / 24	Up to 95% of input	10	20	1/75 - 1/9	1/40 - 1/4	CHASSIS	YES	-	-	-	-

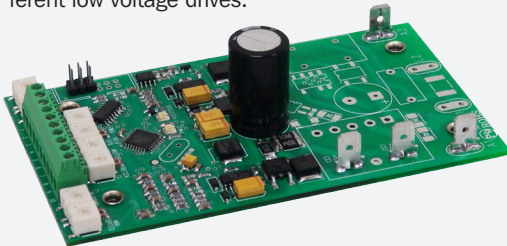
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The DC6-12/24-4Q and the DC20-12/24-4Q are 4Q PWM drives. These drives are microprocessor based making them great candidates for OEMs who need something custom, whether it be in speed control, torque control, positioning control, or even cycling.

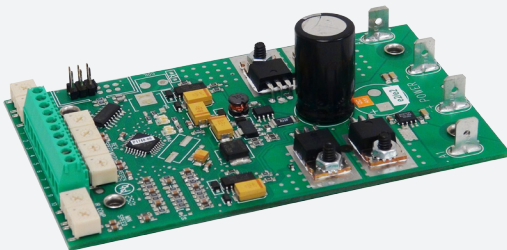
These drives have calibration capabilities of Motor Current Limit, Regen Current Limit, Accel, Decel, IR Comp, Min Speed, Forward Max Speed, and Reverse Max Speed. With the microprocessor on board, these trim pot settings can even be set in the drive, removing the trim pots completely and giving a manufacturer the peace-of-mind that it cannot be tampered with in the field.

The DC6-12/24-4Q and the DC20-12/24-4Q share the same footprint and size as the HTL1.5-D-4Q (page 22), meaning manufacturers who use a range of power supply and motor sizes have the versatility of three different drives without having to change their system. The DC6 even has some of the same features as the HTL, including the ability to follow a 0-5 or 0-10 VDC signal and the ability to bidirectionally control a motor with a unidirectional signal.

See page 53 for an in-depth comparison of the different low voltage drives.

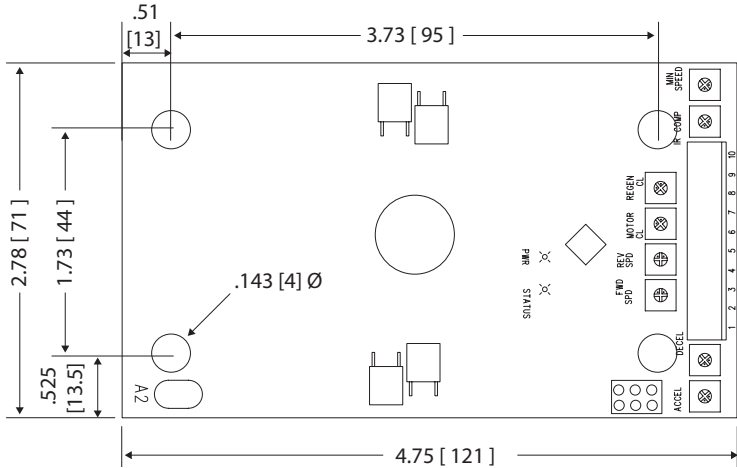


DC6-12/24-4Q



DC20-12/24-4Q

### DC6-12/24-4Q & DC20-12/24-4Q DIMENSIONS



Height: 1.40 [35]

All dimensions in inches [millimeters]

Wiring diagrams can be found on page 68.

### FEATURES

- **Low voltage motor operation:** Designed for 12 or 24 VDC motors.
- **4Q reversing:** Regenerative / 4 Quadrant drives have the ability to perform quick and contactorless braking and/or reversing on-the-fly!
- **Speed range, regulation, & form factor:** 1% of base speed regulation with a 80:1 speed range and a 1.01 form factor over the entire range.
- **User adjustable calibration:** Minimum Speed, Forward Maximum Speed, Reverse Maximum Speed, Motor Current Limit, Regen Current Limit, Acceleration, Deceleration, IR Comp.
- **Diagnostic LEDs:** Power, current limit, over voltage, under voltage, and over-heat foldback.
- **Stopping modes:** Brake or coast to a stop.
- **Microprocessor based:** Allows for special calibration ranges or custom I/O for OEMs. DC6-12/24-4Q allows for unidirectional or bidirectional control with a unidirectional signal. Ask about custom programming for positioning, cycling, and torque control applications.
- **High efficiency:** Outputs up to 95% of the input voltage.
- **RoHS:** All DC6-4Q and DC20-4Q series models are RoHS compliant.