




DC Input, Microprocessor-based 4Q PWM

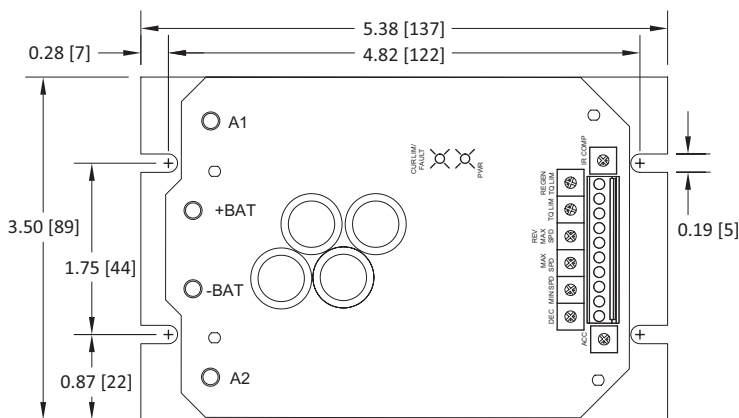
Drive	Input Voltage (VDC)	Output Voltage Range (VDC)	Cont. Armature Current	1 Min Peak Armature Current	HP Rating @ 12 or 36 VDC Output	HP Rating @ 24 or 48 VDC Output	Enclosure	Reversing	Field Supply (VDC)	UL Listed 	CSA 	CE TUV 
DC60-12/24-4Q	12 / 24	Up to 100% of input	30	60	1/25 - 1/3	1/12 - 2/3	CHASSIS	YES	—	—	—	—
DC60-36/48-4Q	36 / 48	Up to 100% of input	30	60	1/12 - 2/3	1/6 - 1 1/3	CHASSIS	YES	—	—	—	—

The DC60-4Q is Minarik Drives' latest addition to the DC-DC family.

The DC60-12/24-4Q is a microprocessor based drive like all of our 4Q low voltage drives. This feature allows us to create unique features you won't find on most drives. For example, the DC60-4Q series has built in short circuit protection, to prevent damage to the drive in the condition of a short on the motor connections. In addition to all the same benefits as the other drives, the DC60-4Q has a wireless option that allows you to remotely control the drive or even change parameters with a custom remote. See page 44 for more details.

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

DC60-12/24-4Q & DC60-36/48-4Q DIMENSIONS



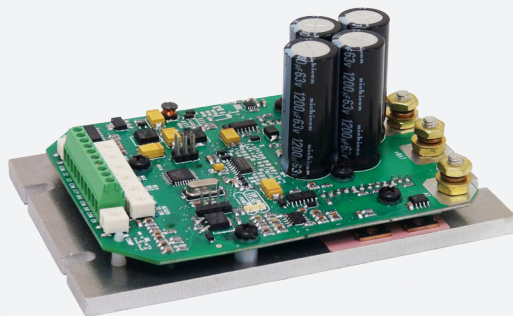
Height: 1.56 [40]

All dimensions in inches [millimeters]

Wiring diagrams can be found on page 69.

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.
- **Brake Output:** Applies a voltage out to a brake coil when the drive is disabled or stopped.
- **Stopping modes:** Brake or coast to a stop.
- **100% Duty Cycle:** Drive has capability of outputting 100% of battery voltage.
- **Microprocessor based:** Allows for special calibration ranges or custom I/O for OEMs. Ask about custom programming for positioning, cycling, and torque control applications.
- **High efficiency:** Outputs up to 100% of the input voltage.
- **RoHS:** All DC6-4Q and DC20-4Q series models are RoHS compliant.



DC60-12/24-4Q
DC60-36/48-4Q