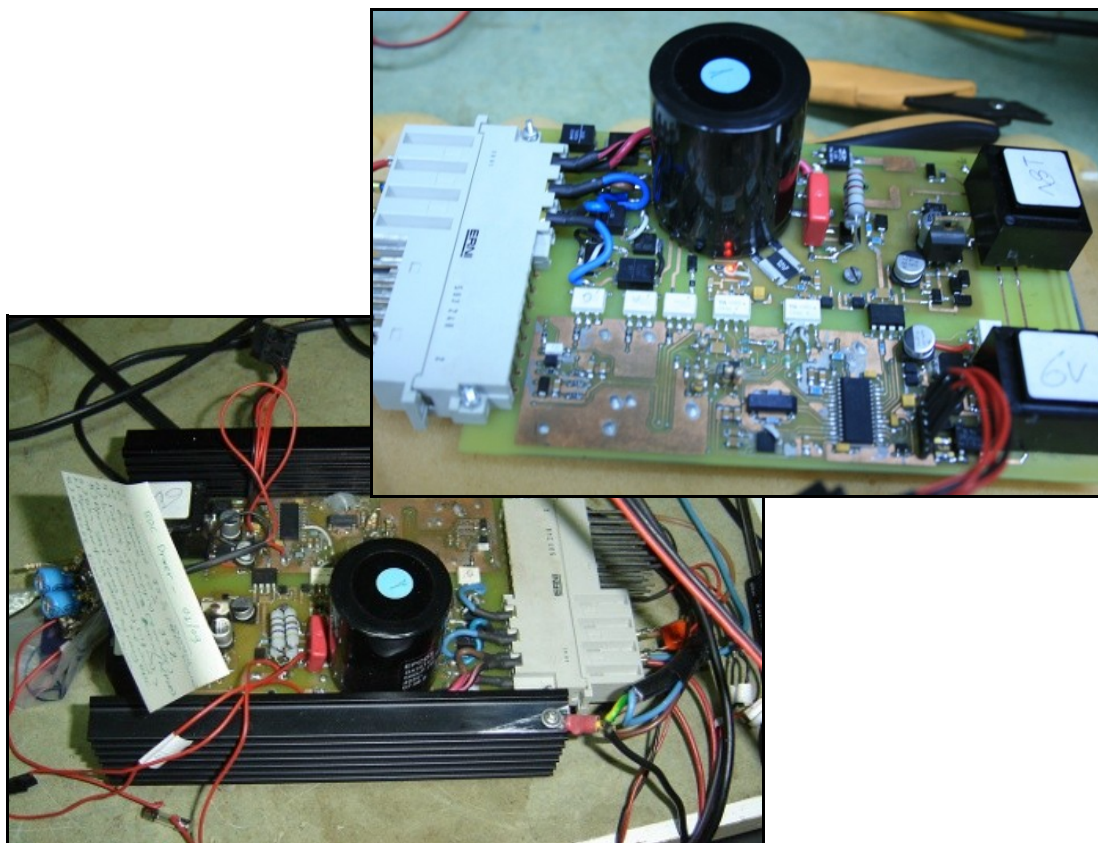


3KW BDC Motor Driver prototype with Hi-Performance DSC FiLD-PROTO-02

- Product Description



Description:

3kW BDC motor driver ready evaluated prototype, designed for robust and reliable operation, extra long-life, and accurate one-way control. High-performance DSC. Fully controlled through serial interface with an external device.

Characteristics:

- High performance BDC motor driver
- Long life, high reliability
- 22KHz PWM frequency (customizable)
- Accurate real-time, one direction speed/torque control
- DSP optimized, Cascaded PID speed-voltage-torque control loops executed at 1msec interval
- Fast, 700KHz motor current sample-rate
- Dynamic braking (power resistor included)
- Electrically isolated power/control circuits
- Serial communication RS232 port for operational control with 3-wires (also RS-485 available)
- Optical encoder input (customizable to hall sensor or back-emf on order)
- Available in a practical heatsink box equipped with one single power/data connector replacing all wires.
- Separate AC motor control (For Treadmill incline) and emergency-stop (n.c) safety key connection
- Fully customizable and upgradeable design
- Low cost optimized

Applications:

- BDC motor treadmills
- Any one-way BDC motor control application

Ratings*:

Description	Value	Unit
Input Voltage	230	V AC
Input Voltage Frequency	50	Hz
Input continuous Current (max)	13	A
Ambient temperature range	-40 to +50	°C

Connections*:

Description	Terminal
230V AC	A / B
Motor positive / negative	C / D
RS232 Rx / Tx	1 2
GNDLOGIC	6
VCCLOGIC	5
Safety key send / return	7 8
Optical encoder drive / read	9 10 - 11 12
AC motor (Incline) up / down	E F / F G

* As this product is a prototype, specifications are not mandatory and can/may change in the final product