



elektrosistem



MP4Q60

4 QUADRANT HIGH FREQUENCY CONTROL UNIT WITH REGENERATIVE BRAKING

MP4Q60 controllers are permanent magnet DC motor speed controllers designed to gradually reach the max speed in battery powered bidirectional applications. The motor max current can be limited according to the needs during acceleration and deceleration. Regenerative braking is active during deceleration.

The current boost increases performance in case of occasional loads like obstacles and ramps.

A microprocessor controls all setting and diagnostics options and inhibits operation in case of anomaly or danger.

The built-in main relay guarantees reverse polarity protection and emergency shutdown.

Fully programmable parameters allow the controller to adapt to many different applications.

Thanks to the CAN Bus interface the controller can be integrated in advanced vehicle control systems.

TECHNICAL FEATURES

- CAN Bus receives controls and transmits operating data
- Current boost adjustable up to 30% of the max current for max 10 seconds
- Reverse polarity protected
- Protected from MOSFET transistors failure
- Protected from potentiometer failure and potentiometer not in the neutral position when the controller is turned on
- Linear limiting of speed and current in case of low battery and overtemperature
- Speed control through 5K potentiometer or other accelerators, with 0-max voltage electrical travel or central tapped configuration
- Programmable for operation with active high or active low signals
- Short circuit protected output, adjustable coil spike protection voltage to avoid overheating of the coil used for electromagnetic brake, reverse buzzer, fault lamp
- Fully programmable by means of the PC and the interface cable. The controller can be supplied pre-programmed according to the customer's needs

TECHNICAL SPECIFICATIONS

- Operating voltage 24V
- Permissible supply voltage variation from 80% to 125%
- Operation frequency 17Khz
- Operation temperature range -20°C / +40°C
- Programmable NPN output (electromagnetic brake, reverse buzzer, fault lamp) MAX 1,5A
- Weight 500g.

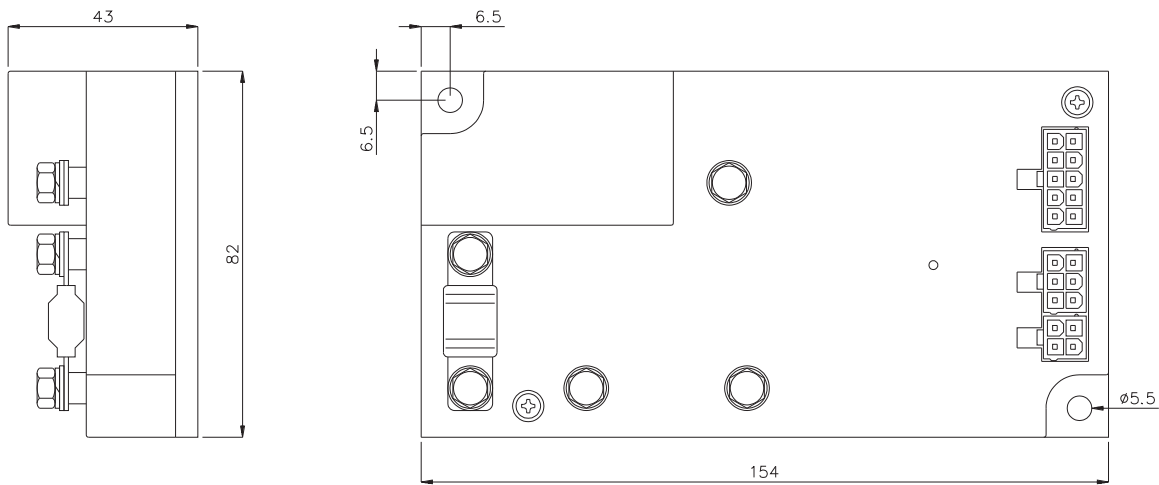


MODELS

Model	Current boost*	Current supplied for 1 min.	Current for 1 hour**
60 A	80 A	60 A	25 A

* Max. 10" - Programmable time and max. current
** without heatsink

DIMENSIONS



TYPICAL WIRING DIAGRAM

