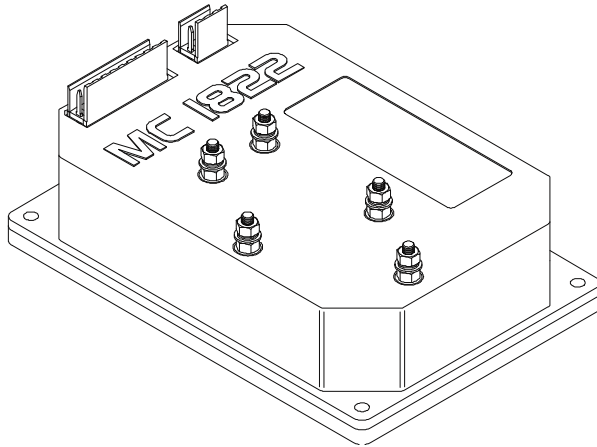




elektrosistem



MC-1822

HIGH FREQUENCY ELECTRONIC CONTROL UNIT

The bidirectional high frequency electronic control unit MC-1822 with automatic pedal release braking represents the newest range of DC-control units manufactured by ELEKTROSISTEM and aided by microprocessor.

This control unit has been designed for series excitation motors with 2, 3, or 4 terminals and built according to the mosfet technology in compliance with the most recent security provisions for the application on EC-vehicles. It is produced in a power range from 100A to 270A in the standard voltages 12, 24, 36 and 48V.

The acceleration adjusting device allows the vehicle to gradually and regularly reach the maximum speed. The current limiter enables the operator to adjust the max. current supplied

to the motor. This control unit is provided with a braking system acting by pedal release or during reverse that may be directly adjusted by foot accelerator. The max. braking value can be set by the operator according to his needs. The operation parameters of the vehicle may be entered and adjusted by connecting the control unit to the display type ITS that is even used for trouble shooting. The MC-1822 control unit is produced with high technology components such as high power and voltage mosfets, high frequency switching diodes, high power and temperature filter capacitors.

MAIN TECHNICAL FEATURES

- Control unit aided by microprocessor.
- Operation parameters adjustable through a programming display.
- Possibility to use the software and a PC interface instead of the display ITS.
- Slow starting through adjustable acceleration slope.
- Settable limiter of the max. current supplied to the motor.
- Proportional action thermal limiter.
- Braking system acting by pedal release and during reverse.
- Settable limiter of max. braking current.
- Control system by a 5K or a 10K potentiometer connected to 3 wires.
- Intervention of the safety block in case of short circuit of the mos units.
- Intervention of the safety block in case of potentiometer breakdown.
- Intervention of the safety block when, turning the key, the potentiometer is not on the value 0.
- Disabling of the safety block by resetting the potentiometer to the value 0.
- Anti-rollback function.
- Driver for the control of an electromagnetic brake or for the connection of a second speed.

TECHNICAL SPECIFICATIONS

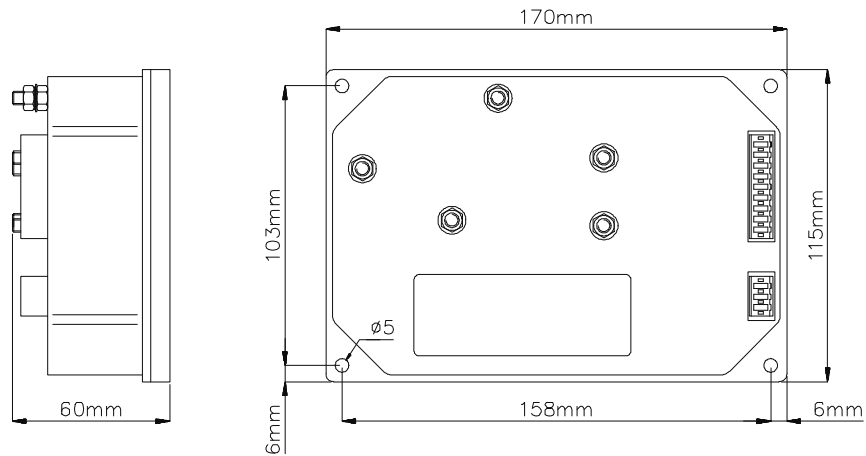
- Voltage rating 12-24-36-48V
- Max. nominal current 100A-270A
- Allowed power supply variation from 85% to 125%
- Operation frequency 17 KHz
- Operation temperature -20°C/+40°C
- Humidity at 25°C 90%
- Thermal limiter action from 70°C to 80°C
- Weight 750 gr.

~~NEWS~~

MODELS

Size	Voltage				Starting Current	Current/Min	Current/Hour
	12 V	24 V	36 V	48 V			
100 A				*	100 A	85 A	40 A
140 A				*	140 A	120 A	55 A
160 A	*	*	*		160 A	135 A	65 A
180 A				*	180 A	155 A	70 A
220 A	*	*	*		220 A	190 A	85 A
270 A	*	*	*		270 A	230 A	100 A

DIMENSIONS



CONNECTION DIAGRAM

