AEROSPACE SYSTEMS 71171711919

Electrical Motor Controller

The brushless controller is a discrete analogue controller for brushless fuel pumps with different protection circuits. The controller contains three major parts:

- the electronic commutation and safety circuits
- the power stage with thermal protection
- the solder interface for connection with the motor, the EMC/ EMI filter and the power supply terminals.

The brushless controller serves for the electronic commutation of the three pole brushless motor and includes safety related functions. The main functions are:

- electronic commutation
- speed regulation
- hall sensor supply
- speed reduction for low supply voltage
- DC current limitation
- thermal overheat protection.

- > Brushless controller type Brushless controller for motor with 3 pole pairs and logical hall-sensor outputs > Nominal supply voltage 28 VDC > Output phases 3 > Operation mode Speed control > Output frequency 531Hz (10620 RPM) > Hall sensor output supply 6.25V > DC current limitation ≤10A (PWM frequency changed) > Blocking protection After 30 sec. OFF if set speed is not reached
- > Speed reduction
- > Overheat protection
- - 22-12V approx. 27Hz/V
- max, 110°C