

# TATTCOM

## Eccentric Devices Simplicity MP0012-AA MOTOR PROTECTION MODULE DATASHEET

Operating Parameters	
Input Vmax:	18.0 VDC
Motor Imax:	0.4 A
Motor Vmax:	8.5 VDC
Motor Vmin:	3.5 VDC
Motor Stall:	10 Hz
Motor:	FAULHABER SR-Flat Series 2607



Over Voltage



Under Voltage



Over Current



Motor Stall



Short Circuit



Open Circuit



LED Diagnostics



Jumpstart Voltage Clamping



Error Codes			
LED Blinks	Condition	Cause	Correction
1	Over Current	Max current limit exceeded, possible causes are mechanical binding, too large of a needle grouping	Correct excessive load on machine and restart
2	Stall	The motor speed had dropped below 10 Hz and a stall condition is imminent	Increase the motor speed and restart
3	Over Voltage	The input voltage has exceeded the maximum allowed value of 8.5 VDC	Reduce voltage and restart
4	Under Voltage	The input voltage has dropped below the minimum allowed value of 3.5 VDC	Increase voltage and restart
5	Output Open Circuit	The motor connection is indicating open circuit	Motor output is open contact support
6	Output Short Circuit	The motor connection is indicating short circuit	Motor output is shorted contact support
7	Jumpstart Over Current	The current limit was exceeded during a jumpstart	Check for proper grip adjustment and remove any load preventing machine from starting

### Notes:

- 1) If no response is observed when power is applied (motor doesn't turn, no LEDs), check the polarity of your power source. RCA center pin is (+)
- 2) If no cartridge is present an over voltage condition may occur after jumpstart, insert a cartridge and try again if this happens.

Support Email: [cs@needlejig.com](mailto:cs@needlejig.com)

More info: [www.tattcom.us/protection](http://www.tattcom.us/protection)

r1.0 - Mar 2023