

Technical Parameters

1. Input voltage: 220V 50Hz/60Hz full-wave rectification;
2. Input rated power: 250W, blocking power is greater than 900W;
3. no-load power: 30W (MAX);
4. no-load speed: 15000 ± 10% RPM;
5. steering (viewing the direction of the shaft): clockwise;
6. insulation grade: Class F;
7. withstand voltage test: AC1500V/1sec/5mA;
8. the spark level is less than 1.5;
9. the noise is less than or equal to 75dB; (30cm from the motor, Ambient noise is less than 50dB)
10. life is greater than or equal to hours (to be determined); (simulated load, keep power about 100W, 1Min ON/10Min OFF)

TEAMWORK GLOBAL GROUP LTD

型号 LRS7812-15130-103L

名称 7812电机总成

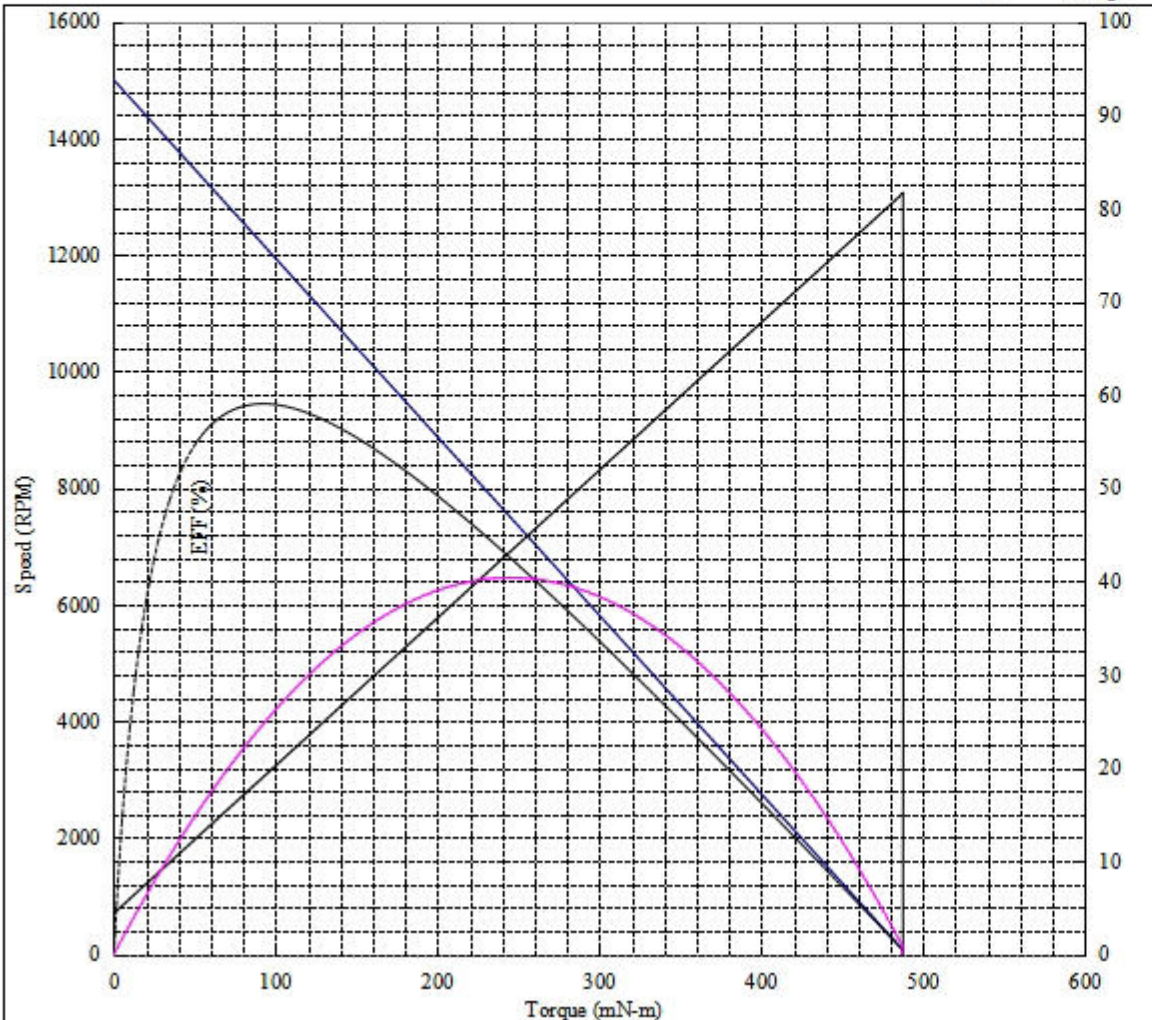
标记	处分	分区	更改文件名	签名	年月日	TEAMWORK GLOBAL GROUP LTD							
设计	龙毅	2021.4.14	绘图	黄桂伟		阶段比例	重量	材料	工艺				
审核			标准化			A	比例	FIT					
工艺			标准			REV: 1	1/1	一位小数	一位小数	角度	倒角圆角		
								0.1	0.01	1°	0.5		

天沃环球集团有限公司

Teamwork Global Group Ltd

Project No.: Motor characteristics curve
 No. : A01
 Model : RS7812-15130-103L

Date : 11/22/22
 Full scale : ——— 100 % Eff
 - - - - - 500.0 Watts
 - - - - - 5.0 Amp.



Performance (in an ambient temperature of 25-30 ° C)
 Motor tested rapidly to prevent significant temperature rise.

At a constant voltage of: 220.00 Volts
 Direction CW

At No Load
 Speed : 15000 RPM
 Current : 0.22 AMPS

At stall (Extrapolated)
 Torque : 490.00 mN-m
 Current : 4.100 AMPS

At maximum efficiency
 Efficiency: 59.0 %
 Torque : 92.158 mN-m
 Speed : 12179 RPM
 Current : 0.950 AMPS
 Output : 123.35 Watts

At maximum Power output
 Output : 201.949 Watts
 Torque : 245.002 mN-m
 Speed : 8351 RPM
 Current : 1.94 AMPS

Characteristics
 Torque constant : 126.290 mN-m/AMP
 E.M.F. constant : 126.290 mV/rad/sec
 Dynamic resistance: 53.6585 Ohms
 Motor regulation : 30.61 RPM/mN-m

Issued by QA Reliability Testing Center

Model No.(马达型号): RS7812-15130-103L

1. Standard Operating Conditions(马达使用条件):

- 1-1 Rated Voltage (额定电压): 220 VDC constant between motor terminals (马达端子电压)
 1-2 Operating Voltage Range (电压范围): 220-240 VDC
 1-3 Direction of Rotation (马达转向) CW when viewed from output shaft side (马达机壳轴出端视之)

2. Measuring Conditions(测试条件):

- 2-1 Motor position(测试马达摆放位置): To be placed horizontally when measuring (将马达水平放置测试)
 2-2 Environmental Temperature and Humidity (环境温度及湿度):
 Temperature range of 15°C to 30 °C (环境温度范围在 15-30°C)
 Relative humidity 30% to 70% (环境湿度范围在 30%-70%)
 2-3 Power Supply (测试电源): Regulated DC power supply (稳压直流电源)

3. Electrical Characteristics (at initial stage after 30 seconds run-in):

马达电气特性 (马达运转 30 秒后计数) www.tw-motor.com

- 3-1 No Load Current (空载电流): 0.22 A Max
 3-2 No Load Speed (空载转速): 15000 ± 10% rpm
 3-3 Starting Voltage (始动电压): 30 V Max
 3-4 Rated Load (马达测试负载): 40*89*2 MM (Fan Blade)
 3-5 Rated Load Current (负载电流): 1.1 A Max
 3-6 Rated Load Speed (负载转速): 9500 ± 10% rpm
 3-7 Motor Performance Curve (马达曲线) See DWG No. RS7812-15130-103L (Reference only)
 3-8 Insulation Resistance (绝缘耐压): min at 1000 VDC between terminal and housing
 在单体马达端子与铁壳间 1500VDC 1MΩ 耐压测试通过

4. Mechanical Characteristics (机械特性):

- 4-1 External Appearance (马达外形图): Attached Outline Drawing (详见外形图纸)
 4-2 Shaft End Play (马达轴向间隙): 0.3~0.11 mm