

ITEM : DC MOTOR
MODEL : RS-385S-12V
SPECIFICATION NO. : SL-20-001
REVISION NO. : 2020-1.0
DATE : March. 1 s t , 2020

REMARKS:

- 1) This specification applies to **RS-385S-12V** DC motor to be supplied to you.
- 2) We made this **MOTOR SPECIFICATION** is just for your conference.
- 3) When defective performance is occurred mutual discussions shall be made in accordance with **SPECIFICATION FOR APPROVAL** to resolve matter.
- 4) Please note that it is your responsibility to ensure that the motor can satisfy the requirements of your application.

1. Standard Operating Conditions:

1-1. Rated Voltage	12.0 V DC constant
1-2. Operating Voltage Range	9.0 ~ 15.0V DC at motor terminals
1-3. Rated Load	60g. cm
1-4. Direction of Rotation	CCW when viewed from output shaft side.
1-5. Motor Position	All direction of protruded shaft
1-6. Operating Temperature Range	-5°C ~ +50°C

2. Measuring Conditions:

2-1. Motor Position	Horizontally or Vertical
2-2. Power Supply	Regulated power supply which assures unquestionable measurement
2-3. Environment Temperature and Humidity	The test is made in principle at the Temperature between 10°C and 30°C, and at relative Humidity between 30% and 95%. If the test result is questionable, it shall be judged from the test made at JIS Standard Testing Condition (20±2°C, 65%±5%RH).
2-4. Unless otherwise specified,	rated voltage to be applied.

3. Electrical characteristics

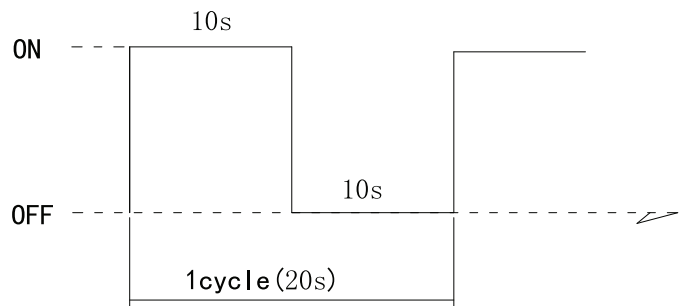
3-1. No-load Speed	14500 \pm 10%	rpm
3-2. No-load Current	0.20 A	Max
3-3. Rated Speed	13800 \pm 10%	rpm
3-4. Rated Current	0.9 A	Max
3-5. Stall Torque	800 g. cm	Min
3-6. Reference Characteristic Curve	See spec No. : RS-385SA-12V	

4. Mechanical Structure and Character :

4-1. Appearance	No remarkable deformation and/or superficial defects.	
4-2. Dimension	As per dimensional drawing No. : RS-385SA-12V	
4-3. Weights	65 g (Approx)	
4-4. Shaft End Play	0.4mm Max	
4-5. Shaft T. I. R	0.02mm (max) at 2/3 of output shaft side and measured by dial gauge.	
4-6. Mechanical Noise	55dB Max	
4-7. Vibration	To be set up with mutual consent.	

5. Motor life test:

- 5-2. Voltage 12.0 V DC
- 5-3. Load 60g. cm
- 5-4. Environment 25°C ± 5°C / 65% ± 20%RH
- 5-5. Duty Cycle As sketched below.



Life end defined as follows:

- 1) When current is over ±30% against the initial figure.
- 2) When speed is beyond ±30% against the initial figure.
- 3) When motor is unquestionable recognized as unusable.

5-6. Life Expectancy: 1000Hrs MIN

6. Storage

- 6-1. Storage Temperature -20°C ~ 70°C.
- 6-2. Storage Relative Humidity 10% ~ 90%.
- 6-3. Keep dry, avoid storing in high temperature、 high humidity or corrosive gas environment.

7. CAUTIONS:

- 7-1. Since the performance of the motor is affected by environmental temperature, condition be give to keep it away from out of range.
- 7-2. It is not allowed to operate in the high temperature with high humidity or in the rust or in the circumstance where the substances generating a harmful gas such as low molecular Siloxane, syan, formalin ,quick-dry glue or the corrosive gas such as H₂S, SO₂, XO₂, Cl, exist.
- 7-3. Do not give direct shock to the motor.

8. REMARK:

- 8-1. Proper performance does not be guaranteed if the used in excess of specified value then indicated in the specifications.
- 8-2. Any revision and addition to the specification shall be made after mutual discussion and agreement.
- 8-3. In case those motors returned to us comply with the characteristics this technical specification, We are not liable to repair the motors free of charge.
- 8-4. When infects are found for the motors duly approved by your incoming inspection, the defective motors shall be returned to us together with descriptions of the faults. We are to accept such motors only if the faults for each motors are clearly mentioned.

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