

MiniScience Inc.

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SPECIFICATION

Model No.: **RF-370CA-12540**

1. MEASURING CONDITIONS

- 1.1. Rated voltage: 8 V DC
- 1.2. Motor Position: To be measured with motor horizontally held.
- 1.3. Environmental temperature: +5°C~+35°C.
- 1.4. Environmental humidity: 40%~85%RH.
- 1.5. Starting Voltage: ≤ 0.8 V.

2. ELECTRICAL CHARACTERISTICS (At initial stage after 30 seconds run-in):

- 2.1. At No load
 - 2.1.1. Speed: 2400 $\pm 10\%$ rpm
 - 2.1.2. Current: 0.01 A(max 0.02A)
- 2.2. At Max Efficiency
 - 2.2.1. Torque: 13.9 g.cm
 - 2.2.2. Speed: 2039 $\pm 10\%$ rpm
 - 2.2.3. Current: 0.06 A(max 0.09A)
- 2.3. At Stall
 - 2.3.1. Torque: 92.3 g.cm
 - 2.3.2. Current: 0.32 A(max 0.48 A)
- 2.4. Direction of Rotation: CCW (Counter-Clockwise when viewing from the output shaft end with positive voltage applied to positive terminal).

3. MECHANICAL CHARACTERISTICS

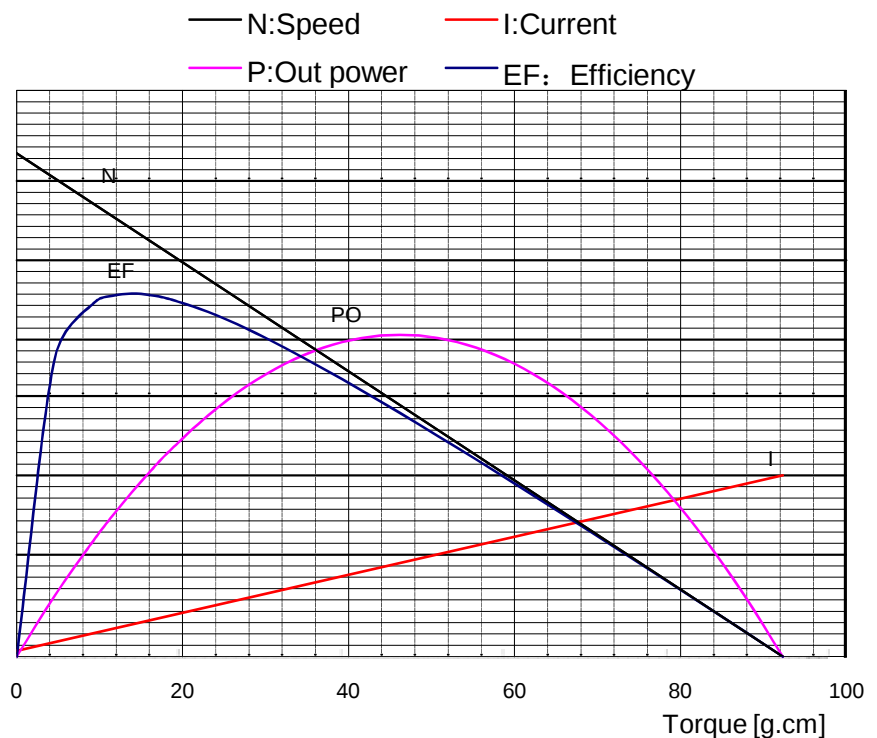
- 3.1. Dimension drawing: See<OUTLINE>.
- 3.2. End Play: 0.05~0.45mm.
- 3.3. Operating Temperature: 0°C ~ +45°C

PERFORMANCE CURVE

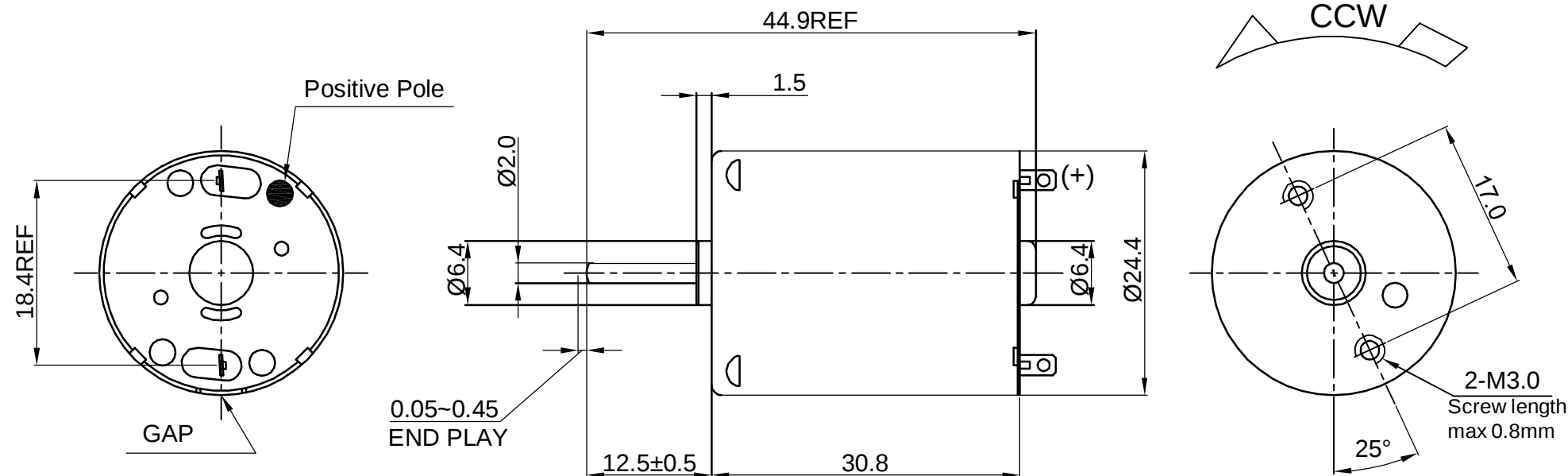
Constant voltage: 8V

Rotation: CCW

P ₀	EF	I	N
1	100	1000	2700
0.5	50	500	1350
[W]	[%]	[mA]	r/min

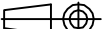


Note: The above performance and characteristics are measured based on limited motor samples only.



General Instructions for Use of Motor:

1. DON'T store motors under environmental conditions of high temperature and extreme humidity or in an atmosphere where corrosive gas may be present, as it may result in malfunction.
Recommended environmental conditions: temperature of +10~+30 degrees C and relative humidity of 30%~95%.
2. DON'T leave motor shaft locked while power is applied, as even a short-time lock-up may cause excess heat build up resulting in burning damage to the motor depending on its specifications.
3. Motor life mainly depends on the operating state (mounted state, load, and environmental temperature etc.)
4. Motor life may be affected adversely by heavy radial load such as produced by rotating eccentric cams, etc., and also by vibration given from outside. DO check over such negative factors by testing the motors to the actual operating conditions in your application products.
5. Make sure the screw length not exceed the Max usable mechanical value.
6. Be careful and prevent any liquid from flowing into the motor. The inflow might cause a failure such as defective starting.
7. If other problems appeared in application, please contact the technical person for help.

REV.	DESCRIPTION				BY	DATE
ALL DIMENSIONS MILLIMETERS					MiniScience, Inc.	
	DWN BY	CHKD BY				
NAME		Tony Guan				
DATE		12/18/2012	SIZE: A4	Model No.		
TOLERANCE			SCALE 2:1	RF-370CA-12540		
X.	X.XX	X.XXX		Angle		
±0.5	±0.05	±NA	±1°		DWG No.	