

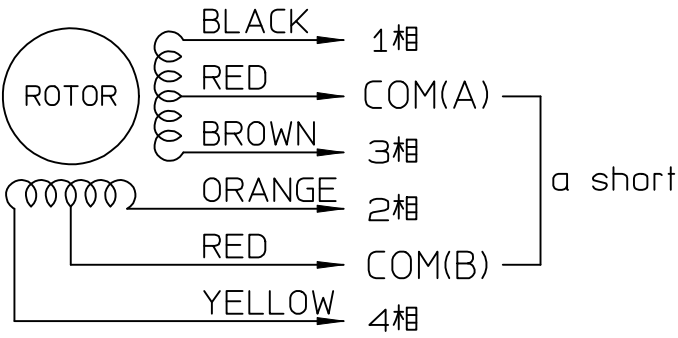
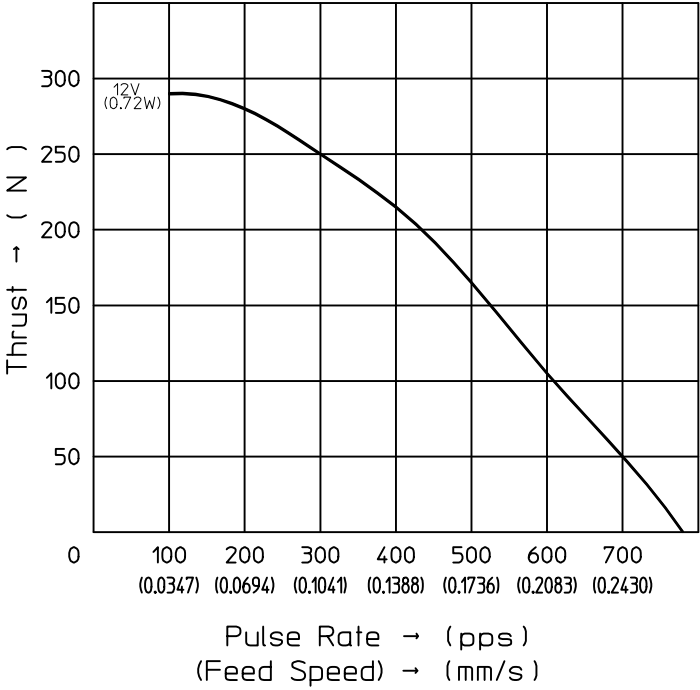
General

1. Number of Phase	2 (PM Type) Geard linear step
2. Excitation Mode	2-2
3. Step Size (Screw Pitch)	0.000347mm/step(0.75mm/rev)
4. Effective Stroke	5.0mm Max. (Remarks No.4)
5. Operating Temp. Range	-10℃~+65℃
6. Dielectric Strength	AC 1000V (1min.)
7. Insulation Res.	100MΩ (DC 500V)
8. Insulation Class	E
9. Max. Operating Temp.	+100℃以下 (At the case)
10. Res. Per Winding	200Ω±7%
11. Ind. Per Winding	57mH (1Vrms, 1kHz)
12. Starting Pulse Rate	550pps (No Load)
13. Slewing Pulse Rate	780pps (No Load)
14. Temp. Rise (Res. Method)	45K (0pps)
15. Mass	125g
16. Ambient Temp. Range	See No.9(Operating)
17. Operating Humidity	RH85% (Non Dewdrop)
18. Ambient Temp. Range	-30℃~+80℃ (Storage)

Remarks

- No. 10 to 13 are tested at the terminal voltage (12.0V±2%) and the environment is normal temp (20℃±5℃), humidity range (65%±20%).
- Dynamic Thrust characteristics are value by using load cell (Strain gauge type).
- The Driver is PS-2LD-5 (for Unipolar,including of 2SD633). It does not include Serge-Killer circuits, (Back-Electromotive-suppress circuits).
- Direction to push out from datum level A.

Dynamic Thrust characteristics



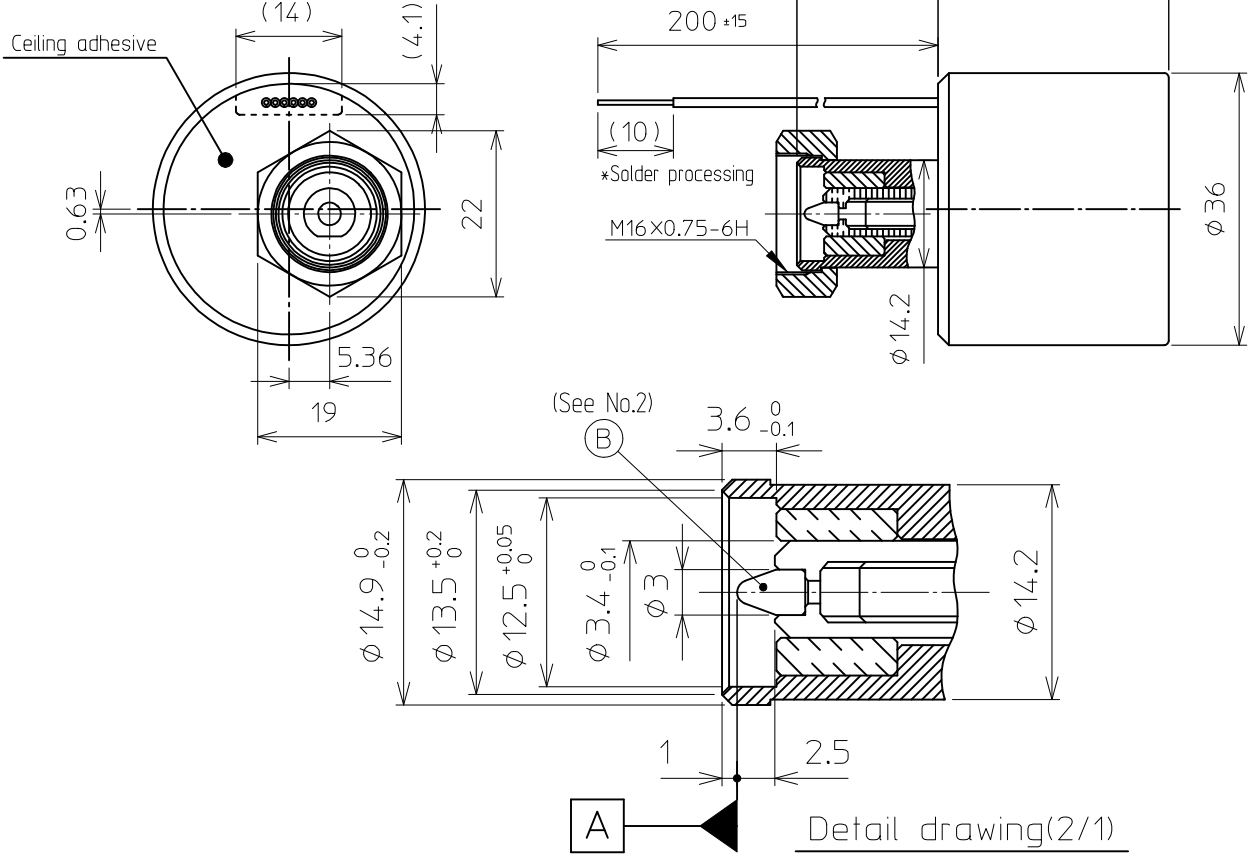
Direction of rotation viewed from shaft End.

No.	BLK	BRN	ORN	YLW	No.
1	O N	OFF	O N	OFF	4
2	OFF	O N	O N	OFF	3
3	OFF	O N	OFF	O N	2
4	O N	OFF	OFF	O N	1

Extend (CCW)

Retract (CW)

For reference



注1. Tolerance : ±0.5, ±5°

- Linear motion of axis. No rotation.
- Lead wire : UL1007,AWG#28 ( Five lead types. )
- Following evaluation test had been conducted on prototype.
  - Endurance test : Reciprocating motion of 600,000 times.  
Supply voltage 12V, 2,000 pulse reciprocating motion.  
( Screw up with 200 pulse. )  
Axial load at 110N.
  - Change of temperature test : 100 cycle  
A low temperature side; -30℃ X 3min. (In a liquid.)  
A high temperature side; +80℃ X 3min. (In a liquid.)
  - Vibration ( sinusoidal ) test & Shock Test.

△			Scale	Third	Name	PFC25-48G1G(1/45)
△			1 / 1	Angle		
△				Projection	Dimensions(mm)	K006848-EL
△						