

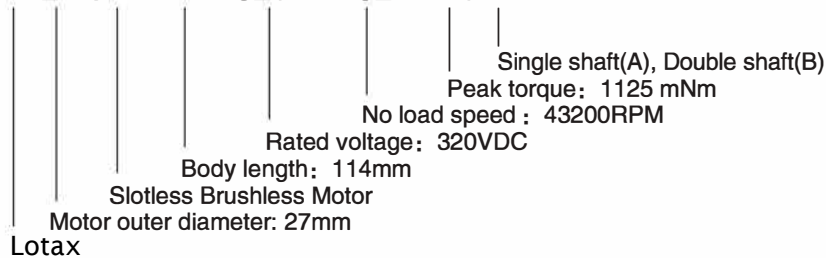


# Slotless Brushless DC Motor

## FL27SBL SERIES

### ● INDICATIONS OF THE MODELS

**FL 27 SBL 114- 320V- 432- 1125 A**



### ● GENERAL SPECIFICATIONS

Winding type	Star
Hall effect angle	120 degree electrical angle
Radial play	0.02mm@450g
End play	0.08mm@450g
Max. radial force	20N@10mm from the flange
Max. axial force	8N
Insulation class	Class H
Dielectric strength	2500VAC.3 seconds, limit of 5mA.
Insulation resistance	100MΩ Min., 500VDC

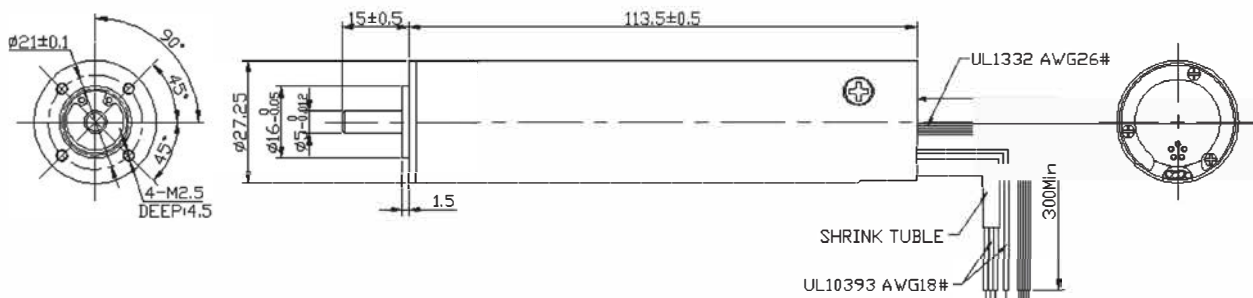
### ● ELECTRIC CONNECTION

Lead No.	Lead Color	Lead Gauge	Function	Description
1	RED	UL1332 AWG26	Vcc	5-24V
2	BRN		Hall A	
3	WHT		Hall B	
4	ORG		Hall C	
5	BLK	UL10393 AWG18	GND	Hall negative
6	YEL		Motor U	
7	BLU		Motor V	
8	GRN		Motor W	
9	YEL/GRN		GND	GROUND

### ● ELECTRICAL SPECIFICATIONS

Model	Unit	FL27SBL114-320V-432-1125A
Number of poles		2
Number of phase		3
Rated voltage	VDC	320
Ldling speed	RPM	43270
Peak torque	mN.m	1125
Peak current	A	17
Line to line resistance	ohms@25°C	9.0
Line to line inductance	mH	3.8
Torque constant	mNm/A	70.6
Back E.M.F constant	Vrms/kRPM	5.23
Rotor inertia	g.cm <sup>2</sup>	10.2
Body length(L)	mm	113.5
Weight	g	320

### ● DIMENSIONS



\*This motor can be designed & manufactured with customized request.