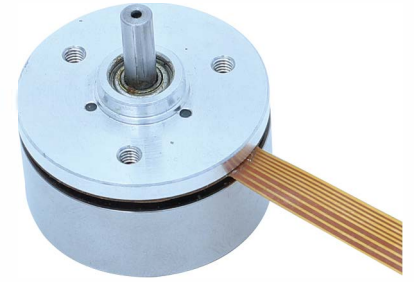


## 32mm Outer Rotor Brushless DC Motor



### GENERAL SPECIFICATION

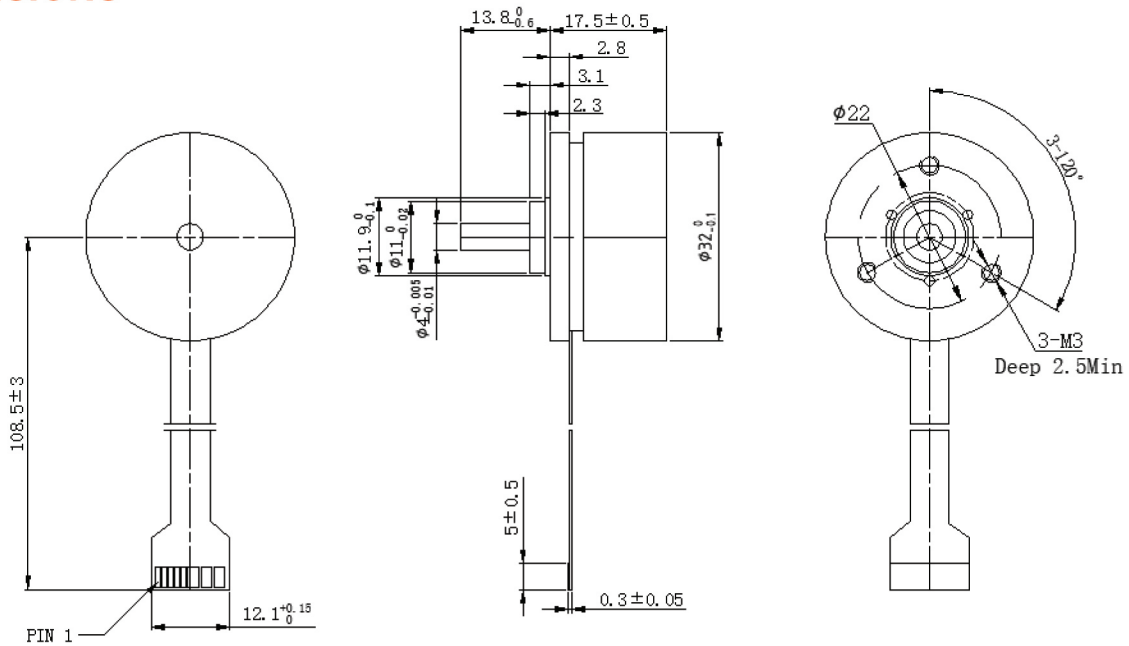
Winding type	Star	Insulation Resistance	100MΩMin. ,500VDC
Hall effect angle	120 degree electrical angle	Dielectric Strength	500VAC for one minute
Resistance Accuracy	±10% @20°C	Shaft Radial Play	0.02Max. (450 g-load)
Inductance Accuracy	±20% @1kHz	Shaft Axial Play	0.15Max. (450 g-load)
Ambient Temperature	-20°C~+50°C	Insulation class	Class B

### ELECTRICAL SPECIFICATION

Model		32DMWO18-0920	32DMWO18-1228	32DMWO18-2427	32DMWO18-4829
Number of poles		8			
Number of phase		3			
Rated voltage	VDC	9	12	24	48
Rated speed	RPM	2090	2810	2760	2940
No-load speed	RPM	3720	4610	4530	4780
No-load current	A	0.3	0.3	0.3	0.3
Rated power	W	6	7	7	8
Rated torque	mN.m	24.6	25.1	25.5	24.7
Rated current	A	1.06	1	0.5	0.257
Peak torque	mN.m	73.8	75.3	76.5	74.1
Peak current	A	3.18	3	1.5	0.78
Maximum efficiency	%	72	73	73	73
Line to line resistance	ohms	2.87	3.43	13.7	53
Line to line inductance	mH	1.61	1.87	7.73	27.8
Torque constant	mN.m/A	23	24.5	50	95
Back E.M.F	Vrms/KRPM	1.7	1.84	3.75	7.1
Rotor inertia	g.cm <sup>2</sup>	35			
Weight	Kg	0.05			
Length	mm	18			

# 32mm Outer Rotor Brushless DC Motor

## DIMENSIONS



## WIRE DIAGRAM

Connector No.	PIN No.	Function	Instructions
FPC	1	Vcc	Hall positive: +5V~+24V DC
	2	HALL C	
	3	HALL A	
	4	HALL B	
	5	GND	HALL negative
	6	PHASE W	
	7	PHASE V	
	8	PHASE U	