

APBLS86 Series Brushless DC Motor

General Specification

Item	Specification
Winding	Star
Hall effect angle	120° (electrical angle)
Shaft run out	0.025mm
Radial play	0.06mm@450g
End play	0.08mm@450g
Max. radial force	220N@10mm from the flange
Max. axial force	60N
Insulation class	Class B
Dielectric Strength	500VDC for one minute
Insulation resistance	100MΩ Min. 500VDC



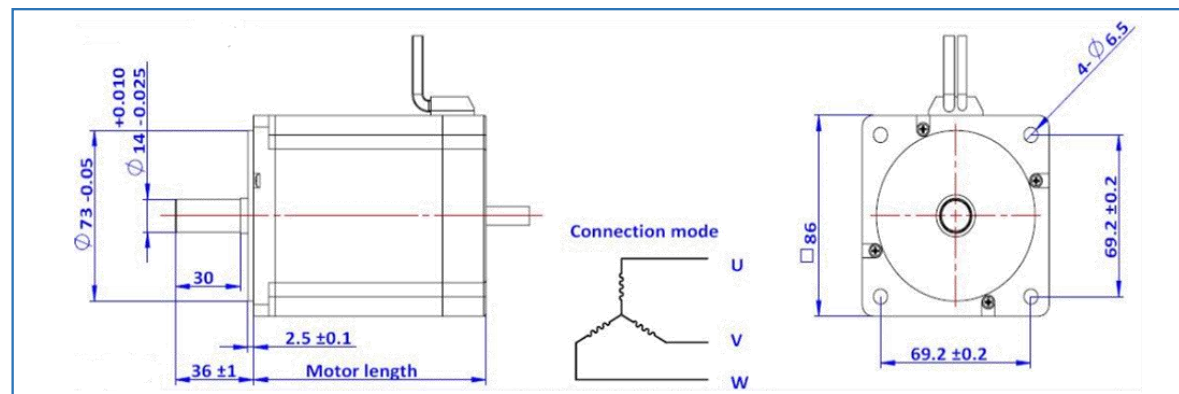
Electric Interface

No.	Color	Wire	Function	DESCRIPTION
1	Red	UL1007 26AWG	VCC	SUPPLY VOLTAGE FOR HALL SENSORS
2	Black		GND	GROUND FOR HALL SENSORS
3	Blue		HALL A	
4	Green		HALL B	
5	White		HALL C	
6	Red	UL1007 14AWG	PHASE U	
7	Yellow		PHASE V	
8	Black		PHASE W	

Technical Data

Model		APBLS86x80	APBLS86x105	APBLS86x130
Number of phase		3		
Number of pole		8		
Voltage	V	48V (Option for 12V up to 230VDC)		
No load speed	rpm	3600	3600	3600
Rated torque	Nm	1	1.8	2.5
Rated Speed	rpm	3000	3000	3000
Rated Current	A	8.6	14.8	20
Rated Power	W	314	565	785
Weight	Kg	2.2	3.2	4.2
Length	mm	80	105	130

Dimensions



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