

APBLS80 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	200N@10mm from the flange
Max. axial force	60N
Insulation class	Class B
Dielectric Strength	500VDC for one minute
Insulation resistance	100MΩ Min. 500VDC



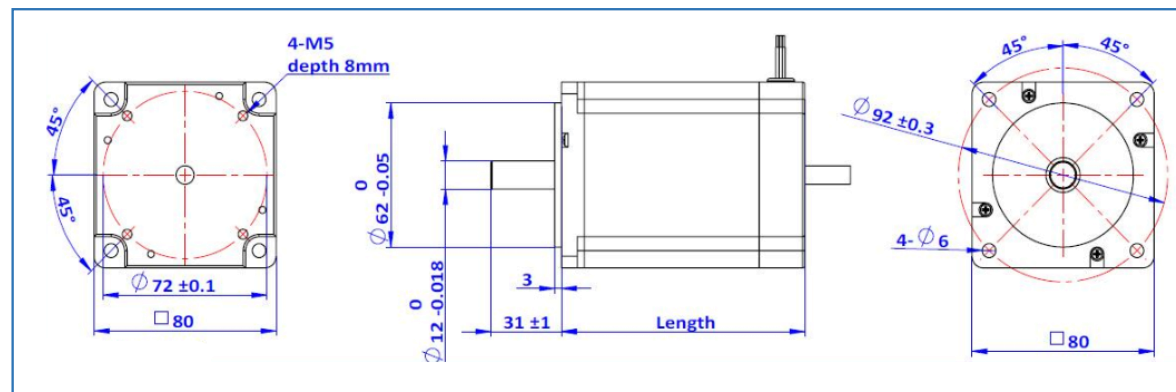
Electric Interface

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		APBLS80x85	APBLS80x105	APBLS80x115	APBLS80x145
Number of phase		3			
Number of pole		8			
Voltage	V	24V (Option for 12V up to 230VDC)			
No load speed	rpm	4200	4200	4200	4200
Rated torque	Nm	0.3	0.65	1	1.3
Rated Speed	rpm	3000	3000	3000	3000
Rated Current	A	6.5	12.5	18	20.5
Rated Power	W	94	200	315	410
Weight	Kg	1.6	2.2	3	3.8
Length	mm	85	105	115	145

Dimensions



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