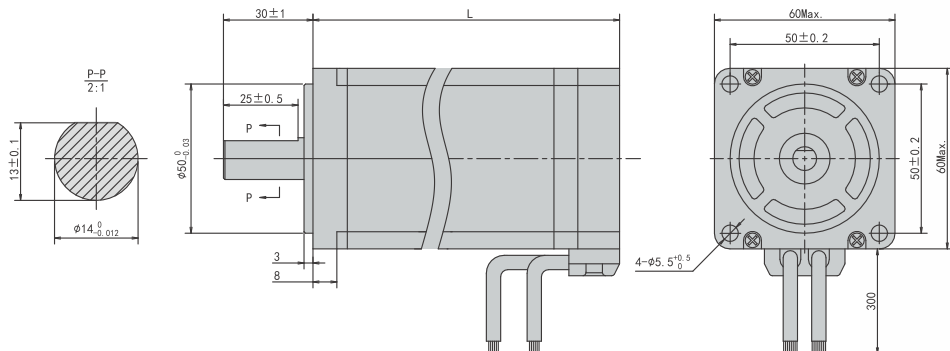


PBLS60HES Series

Inner Rotor BLDC Motor



Options



General Specifications

Winding Type	Star/Delta
Hall Effect Angle	Electrical Angle of 120 degree
Radial Play	0.02mm@450g
Axial Play	0.08mm@450g
Max radial force	115N,10mm From the flange
Max axial force	45N
Dielectric Strength	600VAC/1S
Insulation Resistance	100MΩ,500VDC
Ambient Temperature	-20°C~+50°C
Insulation Class	Class B

Wiring Connection

Type	Color	Function
UL1007 AWG26	Red	Vcc
	Yellow	Hu
	Green	Hv
	Blue	Hw
	Black	GND
UL1007 AWG20	Yellow	Phase U
	Green	Phase V
	Blue	Phase W

Motor Specifications

Motor Model	Unit	PBLS60HES487830	PBLS60HES481530	PBLS60HES482330
Number of Phase		3		
Number of Poles		8		
Rated Voltage	VDC	48		
Rated Speed	Rpm	3000		
Rated Torque	N.m	0.25	0.5	0.75
Rated Power	W	78	156	234
Rated Current	A	2.2	4.4	6.6
Peak Current	A	6.6	13.2	19.8
Peak Torque	N.m	0.75	1.5	2.25
Rotor Inertia	kg.cm ²	0.5	0.9	1.3
Torque Constant	N.m/A	0.11	0.11	0.11
Torque Constant	V/krpm	10.5	10.5	10.5
Line-Line Resistance	Ω	1.5	0.6	0.5
Line-Line Inductance	mH	1.3	0.65	0.4
Length	mm	66	87	108
Weight	kg	0.9	1.25	1.0