

-GENERAL SPECIFICATIONS

ELECTRICAL CONNECTION

Item	Specifications
Winding type	Delta
Hall effect angle	120 degree electrical angle
Shaft run out	0.025mm
Radial play	0.02mm@450g
End play	0.08mm@450g
Max. Radial force	28N @ 20mm from the flange
Max. Axial force	10N
Insulation class	Class B
Dielectric strength	500VDC for one minute
Insulation resistance	100MΩMin., 500VDC

Lead No.	Lead Color	Lead Gauge	Function	Description
1	Red	UL1007 26AWG	Vcc	SUPPLY VOLTAGE FOR HALL SENSORS
2	Blue		HALL A	
3	Green		HALL B	
4	White		HALL C	
5	Black	UL1007 20AWG	GND	GROUND FOR HALL SENSORS
6	Yellow		PHASE A	
7	Red		PHASE B	
8	Black		PHASE C	

Model	KL17BLS	41	61	81	100
Number of poles				8	
Number of phase				3	
Rated voltage	VDC			24	
Rated speed	RPM			4000	
Continuous stall torque	N.m	0.075	0.15	0.22	0.3
Rated torque	N.m	0.0625	0.125	0.185	0.25
Rotor power	W	26	52.5	77.5	105
Peak torque	N.m	0.19	0.38	0.56	0.75
Peak current	A	5.4	10.6	15.5	20
Line to line resistance	ohms	1.8	0.8	0.55	0.28
Line to line inductance	mH	2.6	1.2	0.8	0.54
Torque constant	Nm/A	0.035	0.0355	0.036	0.0376
Back E.M.F	V/KRPM	3.66	3.72	3.76	3.94
Rotor inertia	g.cm ²	24	48	72	96
Body length	mm	41	61	81	100
Mass	Kg	0.3	0.45	0.65	0.8

