

·GENERAL SPECIFICATIONS

·ELECTRICAL CONNECTION

Item	Specifications
Winding type	Delta
Hall effect angle	120 degree electrical angle
Shaft run out	0.025mm
Radial play	0.025mm@460g
End play	0.025mm@4000g
Max. Radial force	75N @ 20mm from the flange
Max. Axial force	15N
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		GND	GROUND FOR HALL SENSORS
6	Yellow	UL1007 20AWG	PHASE A	
7	Red		PHASE B	
8	Black		PHASE C	

Model	KL23BLS	45	55	75	95	115
Number of poles				8		
Number of phase				3		
Rated voltage	VDC			36		
Rated speed	RPM			4000		
Rated torque	N.m	0.055	0.11	0.22	0.32	0.43
Rotor power	W	23	46	92	133	180
Peak torque	N.m	0.16	0.39	0.7	1	1.27
Peak current	A	3.5	6.8	14.5	17.6	22.3
Line to line resistance	ohms	4.1	1.5	0.7	0.45	0.35
Line to line inductance	mH	10	4.2	2.16	1.4	1
Torque constant	Nm/A	0.053	0.063	0.063	0.063	0.063
Back E.M.F	V/KRPM	5.55	6.6	6.6	6.6	6.6
Rotor inertia	g.cm ²	30	75	119	173	230
Body length	mm	45	55	75	95	115
Mass	Kg	0.25	0.5	0.75	1	1.25

KL23BL Series

