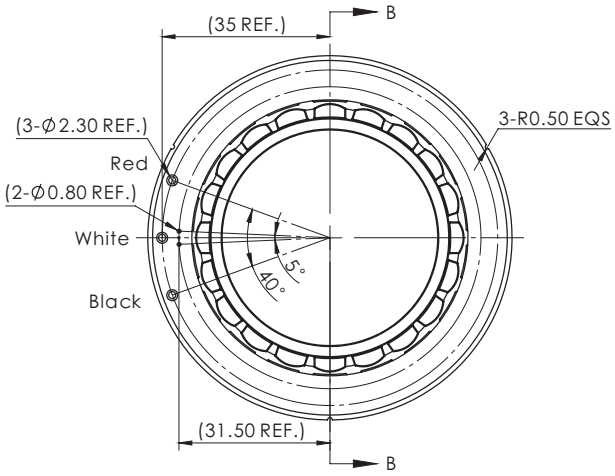
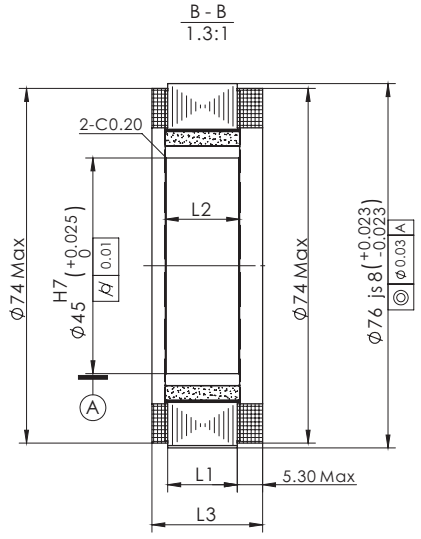
U76 series

Frameless Torque Motor

Model		U7618	U7623	U7636
DC voltage(VDC)		48	48	48
Rated Output (W)		282.7	392.7	660
Rated torque(N.m)		0.9	1.25	2.1
Rated Current (A)		8.2	10.5	16
Rated Speed (rpm)		3000	3000	3000
Maximum Speed (rpm)		4500	4500	4500
Instant Max Torque (N.m)		2.7	3.75	6.3
Instant Max Current(A)		24.5	31.5	48
Coil resistance(ohms@20℃)		0.36	0.22	0.11
Coil Inductance (mH)		0.3	0.24	0.12
Torque constant (Nm/A)		0.110	0.119	0.115
Back EMF coefficient (Vrms/KRPM)		7	7.5	8.5
Number of pole-pairs(2P)		10	10	10
Rotor inertia(kg.cm2)		0.4	0.675	1.037
Weight(kg)		0.265	0.35	0.58
Size(mm)	L1(Stator stack height)	10	14.5	27.5
	L2(Rotor height)	11	15.5	28.5
	L3(Overall height)	18.6	23.10	36.7

Specification & drawing





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