

# U94 series

## Frameless Torque Motor

Model		U9419	U9424	U9437
DC voltage(VDC)		48	48	48
Rated Output (W)		502.6	660	1162
Rated torque(N.m)		1.6	2.1	3.7
Rated Current (A)		12.5	16.5	28
Rated Speed (rpm)		3000	3000	3000
Maximum Speed (rpm)		4500	4500	4500
Instant Max Torque (N.m)		4.8	6.3	9
Instant Max Current(A)		37.5	49.5	70
Coil resistance(ohms@20°C)		0.193	0.113	0.055
Coil Inductance (mH)		0.7	0.5	0.3
Torque constant (Nm/A)		0.128	0.127	0.132
Back EMF coefficient (Vrms/KRPM)		7.5	7.5	8.3
Number of pole-pairs(2P)		11	11	11
Rotor inertia(kg.cm2)		0.71	1.0	1.808
Weight(kg)		0.382	0.522	0.93
Size(mm)	L1(Stator stack height)	10	14.5	27
	L2(Rotor height)	11	15.5	28
	L3(Overall height)	19.9	24.5	37.9

### Specification & drawing

