

U60 series

Frameless Torque Motor

Model		U6017	U6022	U6035	U6075
DC voltage(VDC)		48	48	48	48
Rated Output (W)		141.5	188.5	314	785.4
Rated torque(N.m)		0.45	0.6	1	2.5
Rated Current (A)		5	6.5	8	23
Rated Speed (rpm)		3000	3000	3000	3000
Maximum Speed (rpm)		4500	4500	4500	4500
Instant Max Torque (N.m)		1.35	1.8	3	7.5
Instant Max Current(A)		15	19.5	24	69
Coil resistance(ohms@20°C)		0.54	0.41	0.26	0.07
Coil Inductance (mH)		0.4	0.4	0.26	0.1
Torque constant (Nm/A)		0.09	0.0923	0.125	0.108
Back EMF coefficient (Vrms/KRPM)		6.2	6.7	8.1	6.5
Number of pole-pairs(2P)		10	10	10	10
Rotor inertia(kg.cm2)		0.139	0.198	0.372	0.852
Weight(kg)		0.15	0.2	0.35	0.69
Size(mm)	L1(Stator stack height)	10	14.5	27.5	65
	L2(Rotor height)	10.5	15	28	66
	L3(Overall height)	18	22.5	35.5	75

Specification & drawing

