



FI-220 series DD Motor

MAIN PARAMETERS	FI-220123	FI-220168	FI-220208
Voltage(VAC)	220	220	220
Rated torque (Nm)	50.6	86.6	115
Instant Max Torque (Nm)	152	266	350
Torque constant (Nm/Arms)	9.2	15.2	14.4
Rated Current (Arms)	5.5	5.7	5.75
Instant Max Current (Arms)	16.5	35	17.5
Resistance (Ω)	3.2	4.2	4.2
Inductance (mH)	8.5	11.6	14
Pole-pairs number (2P)	20	20	26
Back EMF coefficient (Vrims/rad/s)	8.3	12.4	7.9
Rated Output (W)	530.3	726.1	1446.2
Rotor inertia 10 ⁻⁴ kg.m ²	340	360	560
Rated Speed (rpm)	100	80	120
Max Speed (rpm)	200	150	240
Positioning accuracy(arc_sec)	± 20	± 20	± 20
Repeat positioning accuracy (arc_sec)	± 1.5	± 1.5	± 1.5
Encoder resolution (sin/cos)	11740	11740	11740
Axial load (N)	8000	8000	20000
Radial load (N.m)	120	120	500
Axial runout (mm)	≤0.005	≤0.005	≤0.005
Radial runout (mm)	≤0.005	≤0.005	≤0.005
Weight (kg)	20	24.7	34
Motor height L(mm)	123	168	208

Specification & drawing

