

Allied Motion Brushless Motor Series

Series	HeiMotion	Quantum NEMA	Globe Line	ResMax	PerformeX	EnduraMax	Megaflux	CM	KinetiMax	Quantum X	HT	Megaflux Frameless	KinetiMax HPD
Frame Size (mm)	40, 60, 80, 100, 130, 150, 190	NEMA 17, 23, 34, 56	20, 38	28	12.7, 16.5, 22.2	75, 95	170 (OD), 64 (ID)	66.3 (OD), 12.7, 19 (ID)	24, 31.7, 42, 54, 68	36, 56, 82, 127	19 - 127 (OD) 5 - 64 (ID)	60 - 792 (OD) 36 - 582 (ID)	62 - 125
Length (mm)	89 - 571	54 - 199	55	40	44.0 - 99	85 - 170	97, 113, 138	55	26.3 - 62.1	25-174	11 - 62	8 - 101	21 - 66
Voltage (Vdc)	48, 320, 560	24, 40, 130, 300	24, 27	24	24, 48	12, 24, 48	48	24	6, 12, 24	24, 40, 130, 300	24 - 100	48, 150, 300	6 - 75
Rated Torque (Nm)	0.12 - 66.0	0.1 - 11.1	.007 - .07	0.005	0.007 - 2.71	0.2 - 1.9	2.2 - 8.5	0.2	.005 - 0.17	0.1-15	0.008 - 9	0.3 - 1,875	0.24 - 6.7
Rated Speed (rpm)	2,000 - 9,000	878 - 13,800	7,500 - 24,000	20,000 - 90,000	98 - 96,000	1,300 - 5,150	75-1,000	1,125	3,450 - 4,750	1,116 - 30,746	419 - 18,298	17 - 7,098	1,658 - 4,320
Rated Power (W)	50 - 14,000	68 - 2,551	18 - 70.1	46	19.6 - 62	85 - 470	227 - 670	22.3	2 - 50	App. Dependent	App. Dependent	App. Dependent	108 - 1,171
Key Characteristics	Housed (Metric)	Housed	Housed	Housed	Housed	Housed	Housed	Housed	Housed	Frameless	Frameless	Frameless	Frameless
	Inner rotor	Inner rotor	Inner rotor	Inner rotor	Inner rotor	Inner rotor	Inner rotor	Inner rotor	Outer rotor	Inner rotor	Inner rotor	Inner rotor	Outer rotor
	Synchronous AC servo	Brushless servo	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC
							Direct drive	Direct drive		Direct drive	Direct drive	Direct drive	Direct drive
	Integrated drive electronics					Integrated drive electronics	Integrated drive electronics		Integrated drive electronics				
	Integrated encoder					Integrated encoder	Integrated encoder						
Low inertia & high inertia series			MIL-spec models	High speed (90,000 rpm)	Slotless								
Available Customizations	Gearhead	Gearhead	Gearhead		Gearhead	Gearhead		Gearhead	Gearhead				
	Encoder/resolver	Encoder	Encoder		Encoder	Internal Brake				Halls / No Halls	Halls / No Halls	Halls / No Halls	
	Mating drive	Mating drive								Mating drive	Mating drive	Mating drive	Mating drive

Examples of Available Customizations



Hollow Shaft Modular Optical Encoders



Mated Motor Drives



Optional Gearheads