

SEM / Servo Dynamics Servo Motor Technical Data: MT22 Series

Parameter	Unit	MT22 D2-19	MT22 D2-10	MT22 D2-5	MT22 G2-19	MT22 G2-10	MT22 G2-5	MT22 R2-24	MT22 R2-19	MT22 R2-12	MT22 R2-10
Voltage gradient no load	volts/krpm	19	10	5	19	10	5	24	19	12	10
Max.terminal voltage	volts	95	50	25	95	50	25	120	95	60	50
Max. Speed	RPM	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Continuous stall torque TENV	Nm	0.5	0.5	0.5	0.7	0.7	0.7	1.2	1.2	1.2	1.2
	lb-in	4.4	4.4	4.4				10.6	10.6	10.6	10.6
Peak Stall Torque	Nm	2	2	2	4	4	4	8	8	8	8
	lb-in	18	18	18	35.4	35.4	35.4	71	71	71	71
Continuous stall current rms	Amps	2.8	5	10	3.9	7	14	5.2	6.7	10.9	12
Rotor Polar Moment of Inertia	Kg.m ²	0.00017	0.00017	0.00017	0.00028	0.00028	0.00028	0.0006	0.0006	0.0006	0.0006
	lb-in Sec ²	0.0015	0.0015	0.0015	0.0024	0.0024	0.0024	0.00531	0.00531	0.00531	0.00531
Voltage constant Kv	1	0.18	0.1	0.05	0.18	0.1	0.05	0.23	0.18	0.11	0.1
Torque constant Kt (line-line)	Nm/Amp	0.18	0.1	0.44	0.18	0.1	0.44	0.23	0.18	0.11	0.1
	lb-in/Amp	1.29	0.88	0.05	1.29	0.88	0.05	2.03	1.59	0.97	0.88
Armature resistance	Ohms	3.5	1	0.28	2.5	0.63	0.16	1.6	0.98	0.34	0.26
Armature inductance	Millihenrys	14.1	4	1.12	8.2	2.1	0.5	4.1	2.6	0.89	0.65
Mechanical time constant	Milliseconds	18	18	18	17	17	17	16	16	16	16
Thermal time constant	Minutes	25	25	25	25	25	25	25	25	25	25
Static friction torque	Nm	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055
	lb-in	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486
Motor weight	Kg	2.7	2.7	2.7				5	5	5	5
	lb	0.9	5.9	5.9				11	11	11	11
Tachometer											
Voltage gradient	volts/krpm	9.5	7	7	9.5	7	7	9.5	9.5	7	7
Ripple	%	1	1	1	1	1	1	1	1	1	1
	cycles/rev	33	33	33	33	33	33	33	33	33	33
Armature resistance	Ohms	90	65	65	90	65	65	90	90	65	65
Armature inductance	Millihenrys	15	8	8	15	8	8	15	15	8	8
Maximum current	Amps	0.02	0.03	0.03	0.02	0.03	0.03	0.02	0.02	0.03	0.03

Call CNCpartsdept.com at 858-922-4967 to confirm specifications, pricing and availability. Page 1 of 1.
 Models and specifications subject to change without notice.
 Servo Dynamics Corp © 2008. All Rights Reserved.