

MT22G2

D. C. Servomotors

Technical Data

Parameter	Unit	-19	-10	-5
General				
Voltage Gradient No Load	Volts/1000 RPM *	19	10	5
Max. Terminal Voltage	Volts	95	50	25
Max. Speed	RPM	5000	5000	5000
Continuous Stall Torque TENV ***	Nm	0.7	0.7	0.7
Continuous Stall Torque when fitted to Heatsink (Size 300 x 300 x 12.5 mm) ***	Nm	0.8	0.8	0.8
Continuous Stall Current TENV ***	Amps	3.9	7	14
Armature Polar Moment of Inertia	Kgm ²	0.00028	0.00028	0.00028
Current at Peak Torque **	Amps	22	42	84
Peak Stall Torque **	Nm	4	4	4
Torque Constant K _T **	Nm/Amp *	0.18	0.1	0.05
Voltage Constant K _V **	Volts/Rad/Sec	0.18	0.1	0.05
Theoretical Acceleration at Peak Torque	Rad/Sec ²	14000	14000	14000
Winding				
Armature Resistance Less Brushes **	Ohms *	2.5	0.63	0.16
Armature Inductance	Millihenrys *	8.2	2.1	0.5
Mechanical Time Constant **	Milliseconds	17	17	17
Insulation Class		F	F	F
Max. Ambient Temperature	°C	40	40	40
Thermal Time Constant	Minutes *	25	25	25
Static Friction Torque	Nm	0.055	0.055	0.055
Motor Weight	Kg	3.3	3.3	3.3
Tachometer				
Voltage Gradient	Volts/1000 RPM *	9.5	7	
Ripple	Volts/Rad/Sec *	0.095	0.067	
	Per Cent	1	1	
	Cycles/Rev	33	33	
Armature Resistance **	Ohms	90	65	
Armature Inductance	Millihenrys *	15	8	
Maximum Current	Amps	0.02	0.03	

* Tolerance ± 10%

** At 25°C

*** At 40°C Ambient