

## MT22D2

### D. C. Servomotors

#### Technical Data

Parameter	Unit	-19	-10	-5
<b>General</b>				
Voltage Gradient No Load	Volts/1000 RPM *	19	10	5
Max. Terminal Voltage	Volts	95	50	25
Max. Speed	RPM	5000	5000	5000
<b>Continuous Stall Torque TENV ***</b>	<b>Nm</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>
Continuous Stall Torque when fitted to Heatsink (Size 300 x 300 x 12.5 mm) ***	Nm	0.6	0.6	0.6
<b>Continuous Stall Current TENV ***</b>	<b>Amps</b>	<b>2.8</b>	<b>5</b>	<b>10</b>
Armature Polar Moment of Inertia	Kgm <sup>2</sup>	0.00017	0.00017	0.00017
<b>Current at Peak Torque **</b>	<b>Amps</b>	<b>11</b>	<b>21</b>	<b>43</b>
Peak Stall Torque **	Nm	2	2	2
Torque Constant K <sub>T</sub> **	Nm/Amp *	0.18	0.1	0.05
Voltage Constant K <sub>V</sub> **	Volts/Rad/Sec	0.18	0.1	0.05
Theoretical Acceleration at Peak Torque	Rad/Sec <sup>2</sup>	12000	12000	12000
<b>Winding</b>				
Armature Resistance Less Brushes **	Ohms *	3.5	1	0.28
Armature Inductance	Millihenrys *	14.1	4	1.12
Mechanical Time Constant **	Milliseconds	18	18	18
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	2.7	2.7	2.7
<b>Tachometer</b>				
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