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MTI- TORQUE SYSTEMS
MDM 5000
Virtual Program

MDM 5000 Motors (60, 85 & 110 mm) ship in five (5) working days ARO!
MDM 5000 Virtual Program



Need a custom servomotor solution with off-the-shelf lead times? We've got what you need!

We engineered the MDM-5000 high-energy brushless servomotor with advanced design features to deliver the industry's highest available torque density in a compact and versatile platform.

MDM-5000 servomotors are available in models that produce stall torque up to 35 to 40% higher than conventional designs. The high output is made possible by cut-core, segmented stator lamination technology contained in a high efficiency heat transfer capsule, high slot-fill windings, and a high flux neodymium magnet array.

Configurations available through the Virtual Programare:

- Standard IEC or NEMA
- 2000 Line Encoder
- Connectorized or Flying Lead
- IP 65 without seals
- With muitple winding options
- ***Optional resolver feedback available for all frame sizes (longer lead times could apply)***

5 Day Ship Options				
Frame	Mechanical Option	Termination Option	Winding Option	Total # of Options
T0601	3	2	11	66
T0602	3	2	10	60
T0603	3	2	12	72
T0604	3	2	12	72
T0851	3	2	17	102
T0852	3	2	15	90
T0853	3	2	13	78
T0854	3	2	14	84
T1101	3	2	14	84
T1102	3	2	12	72
T1103	3	2	10	60
T1104	3	2	9	54
Vastly exceeds what our competitors keep in stock!				

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Montevideo Technology, Inc. (MTI)®
A Motor And Control Company
TORQUE SYSTEMS

MDM 5000 Ordering Guide

The following guide shows you the options within the MDM 5000 Virtual Program. The blue boxes represent the different categories that make up the motor. This demonstrates an example of a selection to show you how the process works. The options are located in the drop-down boxes and are printed in BLUE. Simply select the options that best fit your need and you are done! Anything labeled as a standard will not have any options. Selection examples are highlighted.

T	60 (Frame Size)	1 (Winding Stack Height)	A0 (Windings)	N (Thermal Protection)	CG (Incremental Encoder)	C (Termination)	B (Shaft & Diameter Size)	A (Ingress Protection)
	060 mm	60 mm frame (1,2,3,4)	60 mm frame (A0, D0, F0, G0)	N (None-standard)	CG (2000 Standard)	C (Circular Rt Angle-Standard)	60 mm motor frame A-.250" shaft w/flat NEMA 23 B-.375" shaft w/flat NEMA 23	A-IP 65 w/o seal-standard
	085 mm	85 mm frame (1,2,3,4)	85 mm frame (B0, E0, J0, K0)			F (Flying Leads-Standard)	85 mm motor frame C-.375" shaft w/flat NEMA 34 D-.500" shaft w/flat NEMA 34	
	110 mm	110 mm frame (1,2,3,4)	110 mm frame (E0, J0, K0)				110 mm motor frame E-.625" shaft w/flat NEMA 42 F-.750" shaft w/flat NEMA 42	
							60 mm motor frame G-14 mm shaft w/keyway IEC75	
							85 mm motor frame H-19 mm shaft w/keyway IEC100	
							110mm motor frame J-24 mm shaft w/keyway IEC130	

Winding Code Option					
Vac	**Vdc**	**T0601**	**T0602**	**T0603**	**T0604**
28	40	N0, X0, T0, U0, P0	X0, T0, U0, P0, A0	X0, T0, U0, P0, A0	T0, U0, P0, A0
56	80	T0, U0, P0, A0, R0, B8, B0	T0, U0, P0, A0, R0, B8, B0, C0	T0, U0, P0, A0, R0, B8, B0, C0	T0, U0, P0, A0, R0, B8, B0, C0
110	160	A0, R0, B8, B0, C0, D0	A0, R0, B8, B0, C0, D0	A0, R0, B8, B0, C0, D0, E0	A0, R0, B0, C0, D0,E0, F0, G0
230	325	D0	D0	D0, F0	D0, F0, G0
400	560	N/A	N/A	F0	F0, G0
460	640	N/A	N/A	N/A	G0
Total Winding options		**11**	**10**	**12**	**12**
Vac	**Vdc**	**T0851**	**T0852**	**T0853**	**T0854**
28	40	X0, T0, U0, P0, A0, R0	U0, P0, A0, R0, B0	A0, R0, B0	R0, B0
56	80	P0, A0, R0, B0, C6, C0, D0	P0, A0, R0, B0, C6, C0, D0, E0	A0, R0, B0, C0, D3, D0, E0	R0, B0, C0, D3, D0, E0
110	160	B0, C6, C0, D0, E0, F5, F0, J0	B0, C6, C0, D0, E0, F5, F0, G0, J0, K0	B0, C6, C0, D0, E0, F5, F0, G0, J0, K0	B0, C6, C0, D0, E0, F5, F0, G0, J0, K0
230	325	E0, F5, F0, J0, K0	E0, F5, F0, G0, J0, K0	E0, F5, F0, G0, J0, K0	E0, F5, F0, G0, J0, K0, L0, M0
400	560	J0, K0	J0, K0	J0, K0	J0, K0, L0, M0
460	640	K0	K0	K0	K0, L0, M0
Total Winding options		**15**	**14**	**12**	**13**
Vac	**Vdc**	**T1101**	**T1102**	**T1103**	**T1104**
28	40	A0, R0	N/A	N/A	N/A
56	80	A0, R0, B0, C6, C0, D3, D0	B0, C0, D0, E0	N/A	N/A
110	160	B0, C6, C0, D3, D0,E0, F0, G0, H0, J0	B0, C0, D0, E0, F5, F0, G0, H0, J0, K0	D0, E0, F0, G5, G0, H0, J0	E0, F0, G5, G0, H0, J0
230	325	E0, F0, G0, H0, J0, K0	E0, F5, F0, G0, H0, J0, K0, L0, M0	E0, F0, G5, G0, H0, J0, K0	E0, F0, G5, G0, H0, J0, K0
400	560	J0, K0	J0, K0, L0, M0	J0, K0, L0, M0	J0, K0, L0, M0
460	640	K0	K0, L0, M0	K0, L0, M0	K0, L0, M0
Total Winding options		**13**	**12**	**10**	**9**

Winding Designators: Back EMF Constant (Vpeak/Krpm)							
N0 = 5	U0 = 12.5	B8 = 22	C6 = 34	D0 = 50	F0 = 70	J0 = 100	L0 = 140
X0 = 7.5	P0 = 15	R0 = 25	C0 = 40	E0 = 40	G0 = 80	S0 = 110	M0 = 160
T0 = 10	A0 = 20	B0 = 30	D3 = 47	F5 = 65	H0 =90	K0 = 120	G5 = 75

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