

Matador

DC Servo Motors 3 to 25 A



OVERVIEW

The Matador range of motors was specifically designed to operate alongside the Maestro drives.

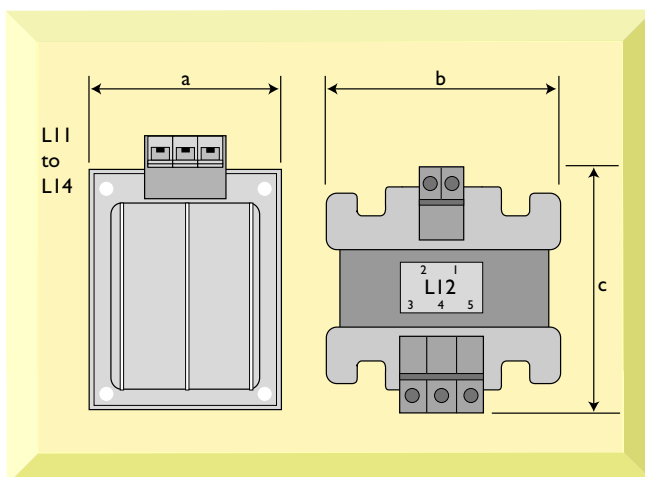
Matador DC servomotors are compact with good dynamic performance and excellent smooth low speed performance. The high commutation power allows the Matador to meet acceleration requirements without limiting the current at upper torque and speed values.

Optimum performance from a servo system is achieved by careful matching of motor and drive.

Peak currents are adjustable from 50% to 100% providing excellent flexibility in varying applications.

Motor Choke (optional)

Frame size	Model	Choke	Choke Rating	Order Code
MiniMaestro	DCD60x3/6	L11	0.7mH, 8A	4371-1108
	DCD60x7/14			
MidiMaestro	DCD60x10/20	L12	1mH, 14A	4371-1214
	DCD60x14/28			
Maxi Maestro	DCD140*8/16	L13	2mH	4371-1314
	DCD140*14/28	L13	2mH	4371-1314
	DCD200*25/50	L14	3mH	4371-1403



Dimension	L11 mm	L12 mm	L13 mm	L14 mm
a	56	75	102	127
b	56	75	83	105
c	64	100	105	132

FEATURES

- High dynamic performance
 - Smooth low speed running
 - Tachometers fitted as standard
 - Long life brushes
 - Low inertia
- Options Include:**
- Failsafe brake
 - Encoder
 - Special flanges
 - Motor Chokes

Brake Specification

Type: Fail safe (for parking or emergency stop)

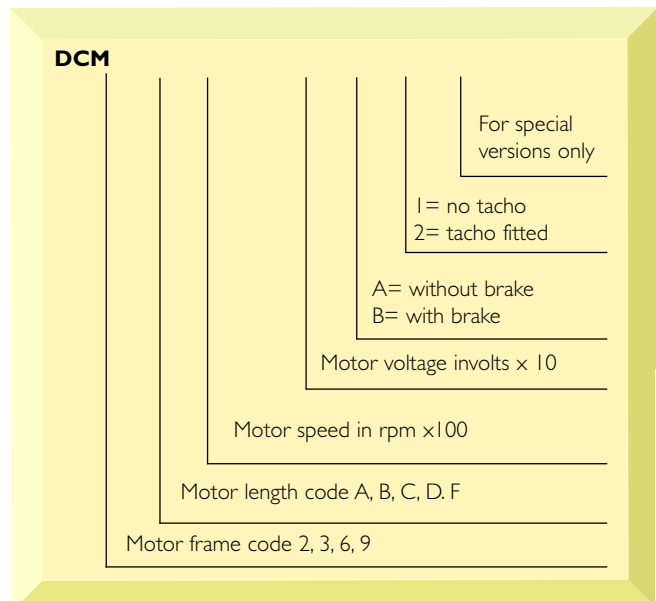
Supply voltage 24 Vdc

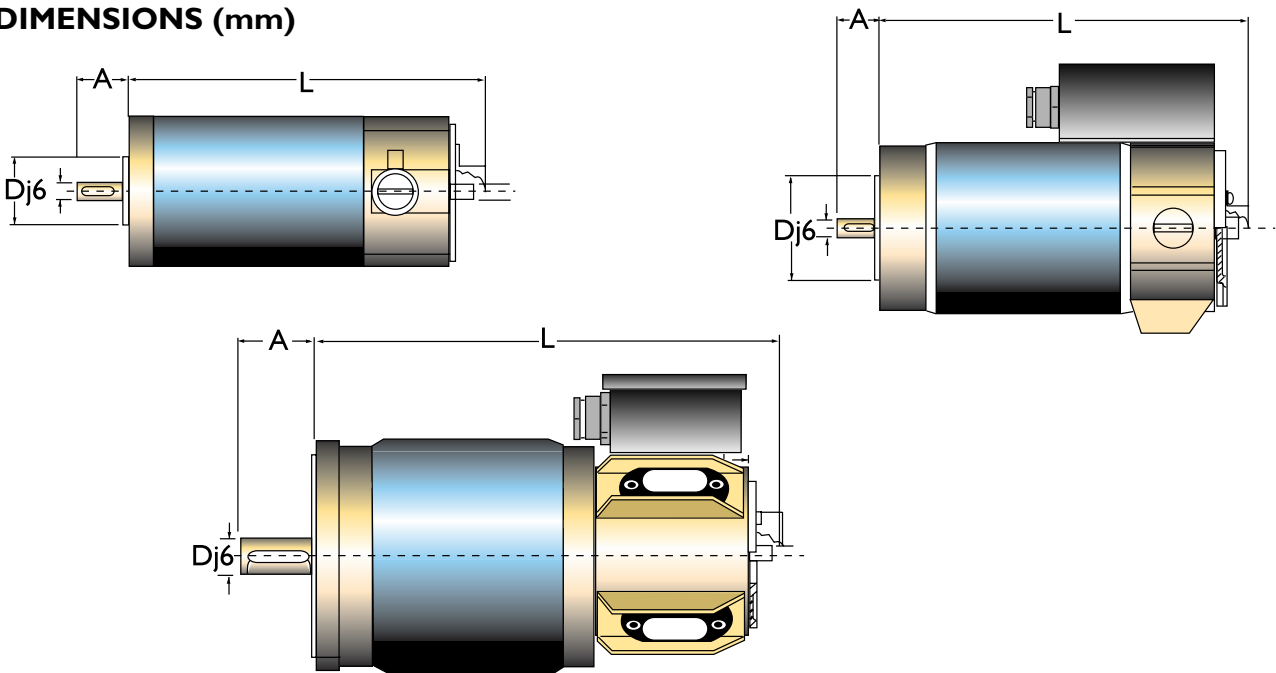
Motor	Holding Torque (Nm)	Motor Length Increase (mm)
DCM 2	0.5	44
DCM 3	3	44
DCM 6	12	44
DCM 9	16	44

Tachogenerator specification

	Unit	DCM
voltage constant	V/rpm	0.01
peak to peak ripple	%	1.6
rms ripple	%	0.7
linearity error	%	0.1
voltage tolerance	%	± 5.0
voltage variation	% per °C	-0.02
nr. of comm. segments		25
nr. of poles		4

Type Definition



DIMENSIONS (mm)


TYPE	2B	2C	3B	3D	3F	6C	6D	6F	9B	9C
A	20	25	23	30	30	40	40	40	50	50
L	136.5	184	212	267	322	338	338	410	350	472
D(j6)	7	9	11	14	14	19	19	19	24	24
L with brake and tach	222.5	270	297	352	407	424	424	496	438	560
L with brake	180.5	228	256	311	366	382	382	454	394	516
L with tach	178.5	226	253	308	363	380	380	452	394	516

MAESTRO AND MATADOR SELECTION TABLE

Maestro Drive	Matador Motors Preferred Types	Rated Stall Torque (Nm)	Rated Stall Current (A)	Max. Peak Current (A)	Rotor Inductive (mH)	Volt Constant (V/krpm)	Rotor Inertia 10 ⁻³ Kg m ²	Choke Reference
DCD 60* 7/14	DCM 2B 30/03	0.32	4.6	23	1.34	7.3	0.0324	N/A
DCD 60* 7/14	DCM 2C 30/03	0.47	4.6	23	1.65	10.7	0.0607	N/A
DCD 60* 7/14	DCM 3B 35/06	0.93	7	35	1.11	13.8	0.6	N/A
DCD 60* 10/20	DCM 3D 30/06	1.6	10	50	1.1	16.5	0.8	N/A
DCD 60* 14/28	DCM 3F 30/06	2	12.5	62.5	3.04	16.5	1	L12
DCD 140* 8/16	DCM 6C 30/14	3.5	9	45	3.4	40	1.8	N/A
DCD 140* 14/28	DCM 6D 30/14	5.5	14	70	1.65	40	2.8	L13
DCD 200* 25/50	DCM 6F 30/14	7.5	21	105	0.85	37.5	5.1	L13
DCD 200* 25/50	DCM 9B 30/20	11	20	90	2.3	57	10	N/A
DCD 200* 25/20	DCM 9C 30/20	15	27.5	124	1.39	57	14	L14

Consult Drive Centre/Distributor for complete range of Matador motors

SPEED TORQUE CURVES

