

## Amplifier/Motor Performance Specifications

Drive Model	Motor Model	Torque Cont/Peak (lb-in)		Maximum RPM (230VAC Input)	Shunt Fuse (Slo-Blo®)	KT (lb-in/amp)	KE (Vrms/Krpm)	Amplifier Continuous Current (RMS/Continuous) (Amps)	Amplifier Output Current (Continuous) (Amps)	Amplifier Output Current (Peak) (Amps)
FX-208	DXM/E-208	8	16	5000	5A	3.2	28.3	3.0	2.8	5.6
FX-316	DXM/E-316	16	32	4000	5A	4.2	37.6	4.0	4	8
FX-340	DXM-340	40	80	3000	5A	6.4	57.0	6.5	6.5	13
FX-455	DXM/E-455	55	110	3000	5A	6.8	60.0	8.0	8	16
FX-490	DXM/E-490	90	180	3000	5A	6.7	58.9	14.0	14	28
FX-4120	DXM/E-4120	120	240	3000	5A	7.9	71.8	16.0	16	32
FX-6120	DXM-6120	120	240	3000	10A	8.1	70.0	16.0	16	32
FX-6200	DXM-6200	160	400	3000	10A	7.9	70.0	26.0	25	50
FX-6300	DXM-6300	265	600	3000	10A	7.9	70.0	37.5	38	72
FX-8200	DXM-8200	200	300	3000	10A	8.1	68.0	25.0	28	37.3
FX-8300	DXM-8300	300	450	3000	10A	8.1	68.0	37.0	38	50.6
FX-8400	DXM-8400	400	600	3000	10A	8.1	68.0	50.0	50	75

## Amplifier/Motor Weights

Drive Model	Amplifier		DX Motor	
	lb	Kg	lb	Kg
FX-208	10.9	4.9	4.0	1.9
FX-316	10.9	4.9	8.3	3.8
FX-340	10.9	4.9	14.6	6.7
FX-455	10.9	4.9	19.8	9.0
FX-490	22.4	10.2	27.5	11.6
FX-4120	22.4	10.2	38.0	17.2
FX-6120	22.4	10.2	35.0	16.0
FX-6200	38.0	17.3	51.0	23.2
FX-6300	40.0	18.1	67.0	30.4
FX-8200	38.0	17.3	80.0	36.7
FX-8300	40.0	18.1	110.0	50.0
FX-8400	43.0	19.5	140.0	63.7

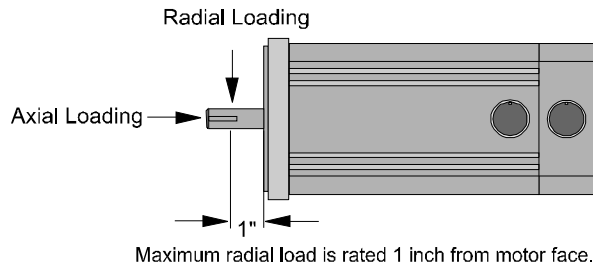


Figure 1: Motor Shaft Information

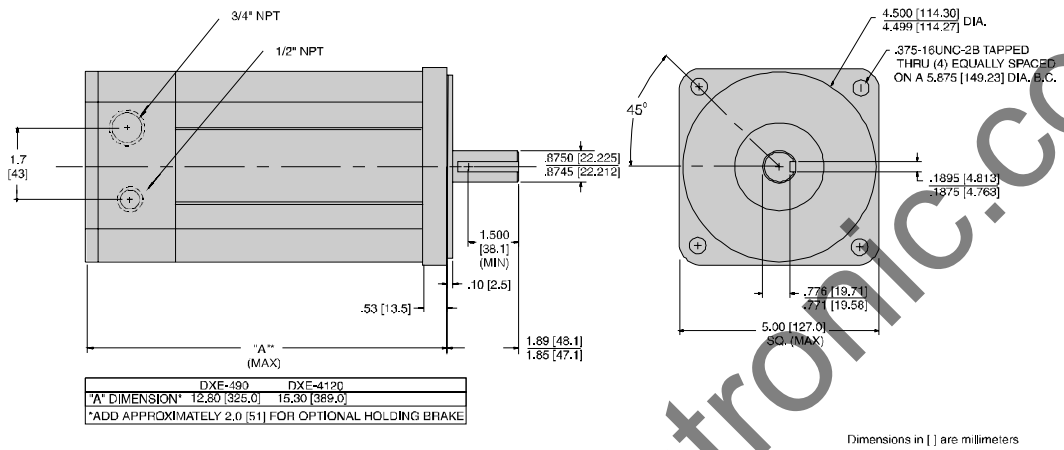
## Motor Shaft Load Specifications

Motor Model	Maximum Radial Load (lbs)	Maximum Axial Load (lbs)
DXM/E-208	20	15
DXM/E-316	40	25
DXM-340	40	25
DXM/E-455	100	50
DXM/E-490	100	50
DXM/E-4120	100	50
DXM-6120	150	50
DXM-6200	150	50
DXM-6300	150	50
DXM-8200	150	50
DXM-8300	150	50
DXM-8400	150	50

## Holding Brake Specifications

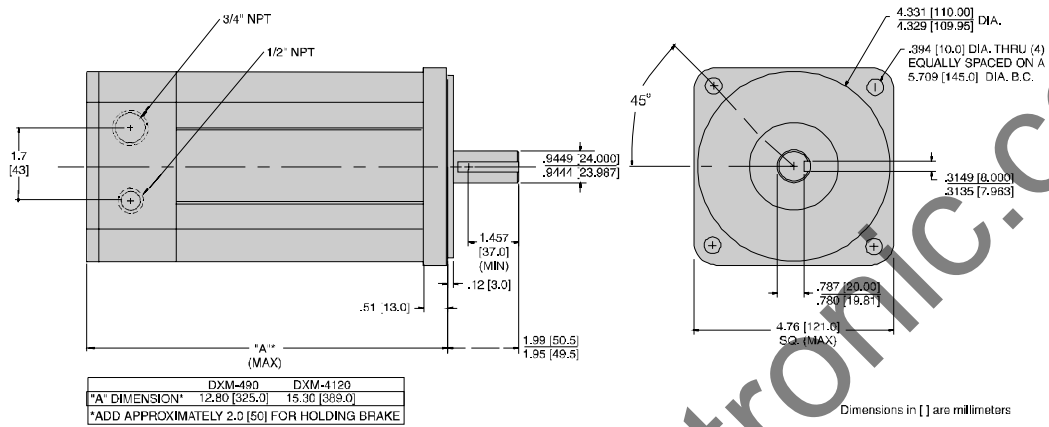
Motor Model	Holding Torque (lb-in)	Voltage (V)	Minimum Current (A)	Mechanical Engagement Time (ms)	Mechanical Disengagement Time (ms)	Rotor Inertia (lb-in-sec <sup>2</sup> )	Feedback Inertia (lb-in-sec <sup>2</sup> )	Brake Inertia (lb-in-sec <sup>2</sup> )	Total Inertia w/Brake (lb-in-sec <sup>2</sup> )	Increased Inertia w/Brake (%)
DXM/E-208	10	24	.34 ±10%	25ms MAX	40ms MAX	0.00016	0.000022	0.000025	0.0002071	13.73
DXM/E-316	60	24	.52 ±10%	100ms MAX	250ms MAX	0.0005	0.000190	0.000150	0.0008403	21.73
DXM-340	60	24	.52 ±10%	100ms MAX	250ms MAX	0.0014	0.000190	0.000150	0.0017403	9.43
DXM/E-455	240	24	.88 ±10%	100ms MAX	250ms MAX	0.0026	0.000190	0.000412	0.0032023	14.77
DXM/E-490	240	24	.88 ±10%	100ms MAX	250ms MAX	0.0051	0.000190	0.000412	0.0057023	7.79
DXM/E-4120	240	24	.88 ±10%	100ms MAX	250ms MAX	0.0074	0.000190	0.000412	0.0080023	5.43
DXM-6120	360	24	1.2 ±10%	50ms MAX	100ms MAX	0.0096	0.000190	0.00227	0.0120603	23.19
DXM-6200	360	24	1.2 ±10%	50ms MAX	100ms MAX	0.0192	0.000190	0.00227	0.0216603	11.71
DXM-6300	360	24	1.2 ±10%	50ms MAX	100ms MAX	0.0288	0.000190	0.00227	0.0312603	7.83
DXM-8200	408	24	1.5 ±10%	110ms MAX	150ms MAX	0.04	0.000190	0.0017	0.0418903	4.23
DXM-8300	408	24	1.5 ±10%	110ms MAX	150ms MAX	0.08	0.000190	0.0017	0.0818903	2.12
DXM-8400	408	24	1.5 ±10%	110ms MAX	150ms MAX	0.12	0.000190	0.0017	0.1218903	1.41

## DXE-490 and DXE-4120 Motor Specifications



		DXE-490	DXE-4120
<b>Rotor Inertia</b>	Kg-cm <sup>2</sup>	5.758	8.355
	lb-in-sec <sup>2</sup>	0.00510	0.00740
<b>Maximum Operating Speed</b>	RPM	3000	3000
<b>Back EMF (Ke)</b>	Vrms/Krpm	58.9	71.8
<b>Torque Constant (Kt)</b>	lb-in/A	6.7	7.9
<b>Maximum Continuous Torque</b>	lb-in	90.0	120
<b>Peak Torque</b>	lb-in	180	240
<b>Rated Power (Continuous)</b>	HP	3.19	4.25
	kW	2.38	3.17

## DXM-490 and DXM-4120 Motor Specifications



		DXM-490	DXM-4120
<b>Rotor Inertia</b>	Kg-cm <sup>2</sup>	5.758	8.355
	lb-in-sec <sup>2</sup>	0.00510	0.00740
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<b>Maximum Continuous Torque</b>	lb-in	90.0	120
<b>Peak Torque</b>	lb-in	180	240
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	kW	2.38	3.17