

Specifications

Parameter	Value																		
Performance	Repeatability Accuracy: ±5 arc-sec (0.00139°) Accuracy: ±30 arc-sec (0.0083°) DRA Series ±45 arc-sec (0.0125°) DRB, DRE Series Max stepping rate: 1,600,000 steps/sec																		
Power	Volts: 115VAC 1-phase, or 230VAC 1-phase, 50/60 #2 Range: +10% to -15% Current: 20 amps max																		
Inputs	Command interface: • Step input: Low going low pulse, 150 nanoseconds minimum pulse width • Direction: Logic high = CW rotation Logic low = CCW rotation Analog input: ±10V command signal																		
Outputs	Encoder output: A/B encoder output 750 kHz max																		
Environmental	<table border="0"> <tr> <td>Weight</td> <td>Driver</td> <td>Motor</td> </tr> <tr> <td>Operating</td> <td>13.2 lb (6 kg)</td> <td>See Table Below</td> </tr> <tr> <td>Storage</td> <td>32° to 122° F (0° to 50°C)</td> <td>32° to 113° F max (0° to 45°C)</td> </tr> <tr> <td>Humidity</td> <td>-4° to 185° F (-20° to 85°C)</td> <td>-4° to 185° F (-20° to 85°C)</td> </tr> <tr> <td></td> <td>20 to 90% noncondensing</td> <td>20 to 85% noncondensing</td> </tr> <tr> <td></td> <td colspan="2">No corrosive gases. Dust free atmosphere. The Dynaserv is not waterproof, oil proof or dust proof.</td> </tr> </table>	Weight	Driver	Motor	Operating	13.2 lb (6 kg)	See Table Below	Storage	32° to 122° F (0° to 50°C)	32° to 113° F max (0° to 45°C)	Humidity	-4° to 185° F (-20° to 85°C)	-4° to 185° F (-20° to 85°C)		20 to 90% noncondensing	20 to 85% noncondensing		No corrosive gases. Dust free atmosphere. The Dynaserv is not waterproof, oil proof or dust proof.	
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DR Series Motor Data

	Model 1008B	Model 1015B	Model 1030B	Model 1045B	Model 1060B	Model 1070E	Model 1100E	Model 1130E	Model 1160E
Peak torque	ft-lbs (Nm): 6 (8)	11 (15)	22 (30)	33 (45)	44 (60)	52 (70)	74 (100)	96 (130)	118 (160)
Rated speed	rps: 2.0/2.0	2.0/2.0	1.5/2.0	1.0/2.0	1.0/1.5	1.5/2.0	1.0/1.5	0.5/1.0	0.5/1.0
Maximum power consumption	115/230VAC KVA: 0.4/0.8	0.6/1.2	1.0/2.0	1.0/2.0	1.0/2.0	1.2/2.4	1.3/2.6	1.4/2.8	1.6/3.2
Rotor inertia	oz-in ² x 10 ² (Kg m ² x 10 ⁻³): 7.9 (15)	11 (21)	13 (24)	14 (26)	18 (33)	46 (85)	55 (100)	68 (125)	77 (140)
Max resolution	507,904	507,904	507,904	507,904	507,904	614,400	614,400	614,400	614,400
Motor weight*	lbs (kg): 13 (6)	20 (9)	24 (11)	29 (13)	35 (16)	49 (22)	57 (26)	70 (32)	79 (36)
Maximum static axial load**	lbs: 6,744	6,744	6,744	6,744	6,744	8,992	8,992	8,992	8,992
• Compression	lbs: 2,248	2,248	2,248	2,248	2,248	4,496	4,496	4,496	4,496
• Tension									
Maximum static overhung load**	ft-lb: 148	148	148	148	148	295	295	295	295

DR Series Motor Data

	Model 1100A	Model 1200A	Model 1300A	Model 1400A
Peak torque	ft-lbs (Nm): 74 (100)	148 (200)	221 (300)	295 (400)
Rated speed, 115/230VAC	rps: 1.0/1.0	0.5/1.0	0.25/0.5	0.25/0.5
Maximum power consumption, 115/230VAC	KVA: 1.4/2.9	1.7/3.5	1.8/3.7	1.8/3.7
Rotor inertia	oz-in ² x 10 ² (Kg m ² x 10 ⁻³): 109 (200)	156 (285)	186 (340)	219 (400)
Maximum resolution	819,200	819,200	819,200	819,200
Motor weight*	lbs (kg): 68 (31)	101 (46)	125 (57)	150 (68)
Maximum static axial load**	lbs: 8,992	8,992	8,992	8,992
• Compression	lbs: 4,496	4,496	4,496	4,496
• Tension				
Maximum Static Overhung Load***	ft-lb: 295	295	295	295

Application	De-rate Factor
Smooth, rotary motion	1/3
Intermittent press loading	1/5
Repetitive shock loading	1/10

* Drive weight is 13.2 lbs (6 kgs)
 ** When designing a system, de-rate the maximum load to the values shown at the right:

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