

Dynamo® Motors

NT DYNAMO® Brushless DC (BLDC) Motors



- Torque Range (Continuous):** 10 – 50 oz-in
- Speed Range:** Up to 6000 RPM at 48V
- Mounting:** Size 17 and NEMA 23
- Rated Voltages:** 12Vdc – 48Vdc
- Encoder Options:** 100 – 1000 line available
- Power:** Up to 200 Watts (Higher ratings available upon request)
- Warranty:** One year limited warranty*



Product Features

- Integral Motor Controls Matched to Motor Winding
- 2 or 4 Quadrant Operation
- Ultra Smooth Precision Motion Quality
- Neodymium Ring Magnets (not arcs)
- Stainless Steel Shaft
- Over 20,000 Hours of Design Life @ Rated Torque
- Long Life Ball Bearing System
- Small Package Size with Low Rotor Inertia

Product Overview and Options

The NT DYNAMO® is designed to provide:

- Maximum application flexibility
- Increased reliability
- Compact integrated encoder option
- 4 quadrant closed loop or 2 quadrant open loop
- Operates in speed or torque mode
- Matched motor and drive performance
- Affordable Servo Control

Typical Applications:

- High speed copiers and printers
- AGV applications
- Robotics
- Medical analyzers
- Indexing and positioning
- Mail processing and sorter
- General purpose equipment



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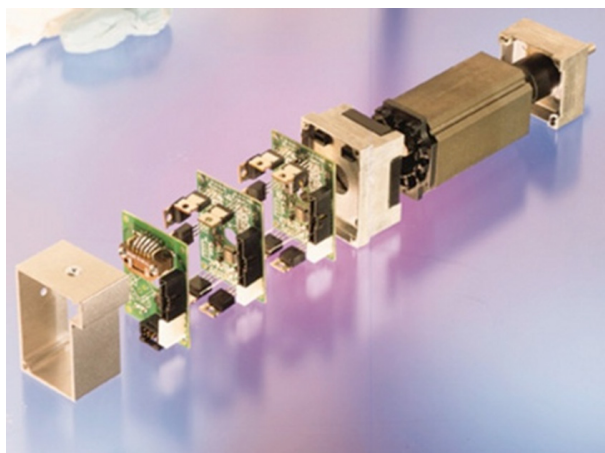
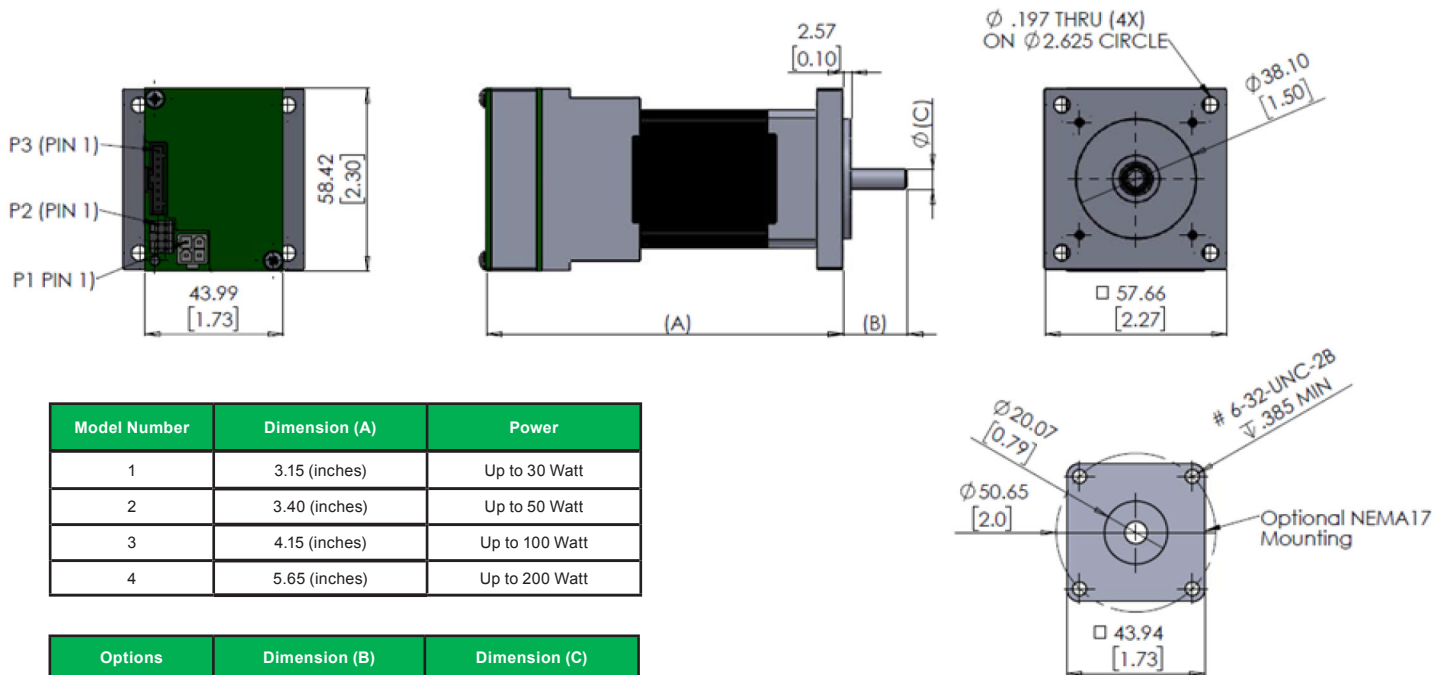
Part Number	Rated Torque (oz-in)	Rated Torque (m N-m)	Controller Type	Mounting Type	Nominal Voltage (Vdc)	Typical Peak Torque (oz-in)	Typical Peak Torque (m N-m)	Typical No Load Current (A)	Typical Full Load Current (A)	Typical No Load Speed (RPM)	Typical Full Load Speed (RPM)	Output Power (watts)	Winding Res. (ohms)	Rated Ind. (mH)	Weight (oz)	Weight (grams)
DMA0102024A2010	10	70.6	Feedback	NEMA 23	24	41.3	291.6	0.54	2.2	6262	4500	33.3	1.1	1	15.2	431
DMA0102024C2010	10	70.6	Feedback	NEMA 23	24	33.4	235.9	0.2	1	3083	2000	14.8	5.3	4.2	15.2	431
DMA0102024D2010	10	70.6	Feedback	NEMA 23	24	24.2	170.9	0.11	1.7	1987	1100	8.1	12.6	10.1	15.2	431
DMA0103024A2010	20	141.2	Feedback	NEMA 23	24	69.2	488.7	0.52	4	5589	4300	63.6	0.45	0.5	19.2	544
DMA0103024B2010	20	141.2	Feedback	NEMA 23	24	91.7	647.5	0.3	2.5	3731	2800	41.4	1.16	1.18	19.2	544
DMA0104024B2010	30	211.8	Feedback	NEMA 17	24	92.3	651.8	0.45	3.4	3511	2700	59.9	0.57	0.64	22.4	635
DMB2103024E2010	20	141.2	Analog Open	NEMA 23	24	42.8	302.2	0.11	0.9	1233	650	9.6	10.5	10.2	19.2	544
DMB2105024D2010	40	282.5	Analog Open	NEMA 23	24	88.5	624.9	0.26	2.6	2036	1350	39.9	1.8	1.9	22.4	635
DMB4102024C2010	10	70.6	PWM Open	NEMA 23	24	33.4	235.9	0.2	1	3083	2000	14.8	5.3	4.2	15.2	431
DMC2102024D2010	10	70.6	Analog Closed	NEMA 23	24	24.2	170.9	0.11	1.7	1987	1100	8.1	12.6	10.1	15.2	431
DMC2104024B2010	30	211.8	Analog Closed	NEMA 23	24	92.3	651.8	0.45	3.4	3511	2700	59.9	0.57	0.64	22.4	635
DMC2105024B2010	40	282.5	Analog Closed	NEMA 23	24	92.3	651.8	0.45	4.5	3496	2600	76.9	0.57	0.64	22.4	635
DMC4103024B2010	20	141.2	PWM Closed	NEMA 23	24	91.7	647.5	0.3	2.5	3731	2800	41.4	1.16	1.18	19.2	544

*Typical Values - Contact Factory for Full List of Offerings

Options

Ask your Nidec Motor Corporation sales representative for integral control, encoder, and gearbox options.

Dynamo with Feedback Dimensions



Modular Product Platform

Spur Gearing Available

- Up to 600:1 Gear Ratio
- Up to 200 oz-in [1412 mN-m] of Torque
- AGMA 7 Gear Quality



Planetary Gearing Available

- Wide Selection of Gear Ratios and Features
- Inline and Metric
- High Torque and Low Backlash



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