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TECHNOLOGY GROUP

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BODINE ELECTRIC COMPANY

33A Series Permanent Magnet DC Motor

Standard Features

- Totally enclosed non-ventilated (IP-40).
- Class "F" insulation, Class "B" rating.
- External brush access for easy inspection and replacement.
- Constant force brush springs for long life and quietness.
- Pre-seated graphite or copper-graphite brushes for optimum performance and quiet operation.
- Skewed armature for smooth low speed operation.
- Oversized magnets resist demagnetization, stabilized to common strength for consistent performance.
- High starting torque and self-braking.
- Noise-tested ball bearings permanently lubricated.
- Locked bearing minimizes endplay.



Application Information

- Performance at 130 VDC is based on use with filtered controls (F.F.=1.0); ratings at 90 VDC are based on operation with an unfiltered control (F.F.=1.4).
- Face mount is standard.

Optional Accessories

- Brake model 0997 (can be used only on models that have an accessory shaft).
- IP-44 achieved with terminal box model 0984 or 1984 (90/130 VDC and 130 VDC models only).
- "L" bracket mount kit model 5968.
- Models with accessory shaft are ideal for mounting external encoders or brakes.

Speed Controls

- We stock speed controls for most of our PMDC gearmotors and motors.

Models

Model numbers that begin with an "N" require lead time and minimum order quantities.

130V, CLASS B TEMPERATURE RATING

Model Number	Speed (rpm)	Rated Torque (oz-in)	Motor HP	Amps	Rated Voltage	Accessory Shaft
6016	2500	34	1/12	0.71	130V	NO
6020	2500	50	1/8	1	130V	NO

24V, CLASS F TEMPERATURE RATING

Model Number	Speed (rpm)	Rated Torque (oz-in)	Motor HP	Amps	Rated Voltage	Accessory Shaft
6021	2500	95	1/4	9.2	24V	NO
6022	2500	134	1/3	12	24V	NO
6024	2500	50	1/8	5.5	24V	NO
N6422	2500	134	1/3	12	24V	YES
N6424	2500	50	1/8	5.5	24V	YES

90V / 130V, CLASS F TEMPERATURE RATING

Model Number	Speed (rpm)	Rated Torque (oz-in)	Motor HP	Amps	Rated Voltage	Accessory Shaft
6034	1725/2500	36/50	1/16 / 1/8	0.78/1.0	90/130V	NO
6035	1725/2500	73/95	1/8 / 1/4	1.4/1.8	90/130V	NO
6037	1725/2500	97/134	1/6 / 1/3	1.8/2.4	90/130V	NO
6434	1725/2500	36/50	1/16 / 1/8	0.78/1.0	90/130V	YES

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6435	1725/2500	73/95	1/8 / 1/4	1.4/1.8	90/130V	YES

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