

HG Gearmotor Provides High Torque in a Compact Package

Up to 1,000 lb-in.

- Offset gearhead provides flexible mounting and high torque in a small package.
- Totally enclosed IP-20 rating. IP-44 with optional t-box kit installed.
- Unvented gearhousing for universal horizontal mounting. Permanently lubricated with high-performance lubricant.
- Industrial lip type seals on motor and output shafts.
- Needle bearings for increased radial load capacity and long life, large ball bearings on the output shaft.
- Hardened helical and spur gearing for quietness and high output to size ratio.



Variable Speed—Pacesetter Inverter Duty AC Gearmotors (230 VAC, 60 Hz, 3-phase)

Fixed Speed Rating					Variable Speed (SOA) Ratings¹						Radial Load (lbs.)	Product Type	230V Model Number
Speed (rpm)	Torque (lb-in.)	Motor HP	Amps	Gear Ratio	Speed Range (rpm)	Frequency Range (Hz)	Torque Type	Torque @ 10 Hz (lb-in.)	Torque @ 60 Hz (lb-in.)	Torque @ 90 Hz (lb-in.)			
Three -Phase, Inverter duty, Non-synchronous (TEFC)													
16	1,000	3/8	1.9	108	2-21	10-90	variable	896	1,000	896	350	42R6BFPP-HG	2245
30	600			56	3-41			464	776	464			N2247
38	480			45	4-51			373	623	373			N2248
63	289			27	7-85			224	368	224			2249

Three-Phase, Inverter duty, Non-synchronous (TEFC)

Fixed Speed—AC Gearmotors (115 VAC, 60 Hz, single-phase)

Speed (rpm)	Rated Torque (lb-in.)	Motor HP	V	Hz	Ph	Amps	Gear Ratio	Radial Load (lbs.)	Capacitor (μF/VAC)	Product Type	Model Number
16	599	1/5	115	60	1	2.7	108	350	30.0/250 (Bodine Part No. 49401090)	42R6BFCL-HG	N5255
30	310						56				5257
38	250						45				N5258
63	150						27				N5259

Permanent Split Capacitor, Non-synchronous (TEFC)

CAPACITOR IS REQUIRED

Permanent Magnet DC Gearmotors (24 VDC or 90/130 VDC)

Speed (rpm)	Rated Torque (lb-in.)	Rated Current (Amps)		Motor HP	Form Factor	Gear Ratio	Radial Load (lbs.)	Product Type ²	Model Number			
		24V	90/130V						Accy Shaft	No Accy Shaft	Accy Shaft	No Accy Shaft
									24V		90/130V	

24V Models With Class F Temperature Rating

23	680	12	—	1/3	1.0	108	350	33A7BEPH-HG	N6823	N6423	—	—
45	353					56			6845	N6445	—	—
56	284					45			N6856	6456	—	—
93	170					27			N6893	N6493	—	—

90/130V Models With Class F Temperature Rating

16 / 23	481 / 680	—	1.8 / 2.4	1/6 / 1/3	1.4 / 1.0	108	350	33A7BEPH-HG	—	—	N6323	6023
31 / 45	249 / 353					56			—	—	6345	N6045
38 / 56	200 / 284					45			—	—	N6356	N6056
64 / 93	120 / 170					27			—	—	N6393	6093

¹ SOA: Contact the factory for detailed speed/torque information (Safe Operating Area).

² PMDC PRODUCTS: The fifth digit of the product type changes from "B" to "F" for accessory ready models.

"N" model numbers require lead time and minimum quantities.

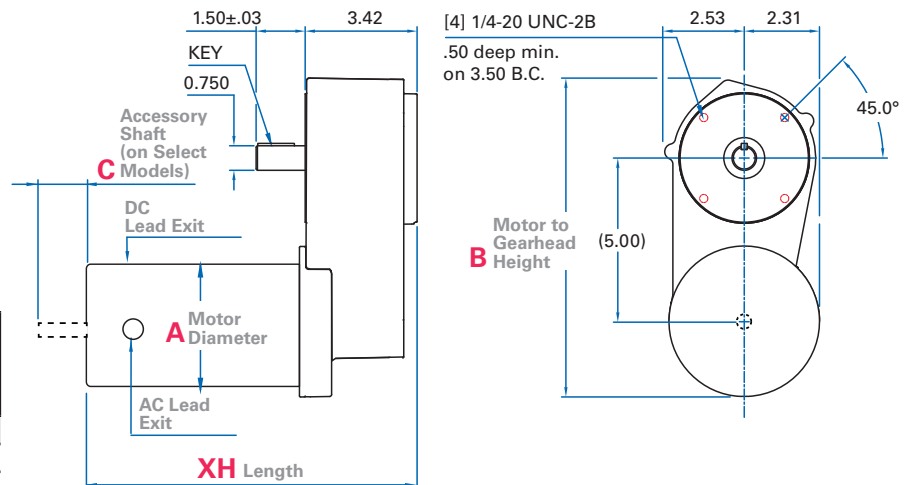
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Reference Dimensions

Dimensions (in inches) are for reference only. For CAD drawings and up-to-date specifications, please visit www.bodine-electric.com.

	Weight (lbs.)	XH Length	A Diameter	B Height	C Accessory Shaft	Lead/ Cord Length (in.)
42R6-HG	9.5	9.855	4.73	9.85	No	12
33A7-HG	10.5	10.547	3.39	9.80	Yes	24



Matched Speed Controls

Bodine motion controls are precisely engineered to provide maximum performance from our motors and gearmotors. When you purchase a Bodine gearmotor and speed control together you get our extended 2-year system warranty.

Our DC controls are available for PMDC motors rated at 90 or 130 VDC, and brushless DC motors rated at 24 or 130 VDC. We also carry a complete line of 3-phase AC inverter controls for variable-speed AC motor applications.

We bring system-matched performance to the next level with our INTEGRAMotor™, which combines a 24 VDC brushless DC motor or gearmotor, a PWM control, and an encoder in one compact high-performance drive package.



2 Year
system warranty