



AC Inverter Duty, Three-Phase Gearmotors

The **type CG** gearhead produces up to 1000 lb-in torque for heavy-duty applications. The **type HG** gearmotor features an offset drive shaft that makes it ideal for use in applications where space is limited. The unique design of this gearhead allows it to be face-mounted from either side. The **type 3RD** is a double-reduction gearhead is designed for applications that require very slow rotation and very high torque.

TYPE CG

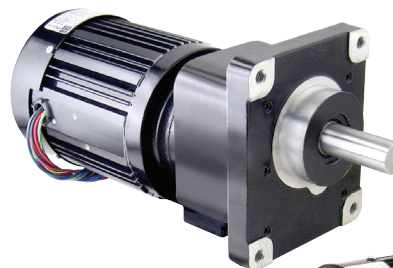
- 28-85 RPM output at 60 Hz
- Up to 1,000 lb-in. continuous torque

TYPE HG

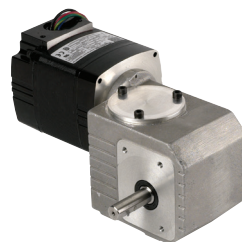
- Offset drive shaft gearhead
- Face-mount from either side
- 16 to 63 RPM output at 60 Hz

TYPE 3RD

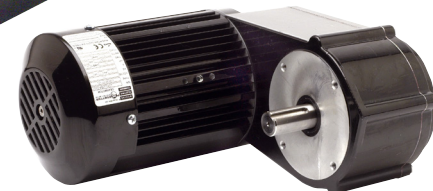
- Double-reduction gearhead produces 0.5 to 8.5 RPM output at 60 Hz
- Up to 148 lb-in. of torque



Type 48R-CG



Type 30R-3RD



Type 42R-HG

TYPICAL APPLICATIONS

These variable speed gearmotors are frequently used to drive conveyor systems, food processing equipment, medical equipment and factory automation.

Type 48R-CG (230/460 VAC)													
Fixed Speed Rating					Variable Speed (SOA) Ratings ¹						Radial Load (lbs.)	Product Type	Bodine Model Number
Speed (rpm)	Torque (lb-in.)	Motor HP	(230/460V) 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)													
28	1000	3/4	2.7/1.3	60:1	2.7-38	10-90	constant	1,000	1,000	1,000	250	48R6BFPP-CG	9360
34	850			50:1	3.2-46			850	850	850			9350
47	650			36:1	4.4-63			650	650	650			9336
57	540			30:1	5.3-76			540	540	540			9330
85	360			20:1	8.0-114			360	360	360			9320

Type 42R-HG (230 VAC)													
Fixed Speed Rating					Variable Speed (SOA) Ratings¹						Radial Load (lbs.)	Product Type	Bodine 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	108:1	2-21	10-90	variable	896	1,000	896	350	42R6BFPP-HG	2245
30	600			56:1	3-41			464	776	464			N2247
38	480			45:1	4-51			373	623	373			N2248
63	289			27:1	7-85			224	368	224			2249

Type 30R-3RD (230 VAC)												
Fixed Speed Rating					Variable Speed (SOA) Ratings¹						Product Type	Bodine 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.)		
0.5	95	1/25	0.38	3600:1	0.1-0.6	10-90	constant	95	95	95	30R2BEPP-3RD	N8036
1.2	126	1/25	0.38	1400:1	0.2-1.5			121	121	121	30R2BEPP-3RD	N8014
2.8	148	1/17	0.48	600:1	0.2-3.6			148	148	148	30R4BEPP-3RD	8006
5.7	146	1/17	0.48	300:1	0.4-7.2			146	146	146	30R4BEPP-3RD	N8003
8.5	141	1/17	0.48	200:1	0.7-0.11			141	141	141	30R4BEPP-3RD	N8002

N-models require minimum order quantities and lead-time. Windings are 60 Hz base frequency. Motor performance will vary below and above 60Hz. Safe operating area (SOA) frequency range: 10-90 Hz.

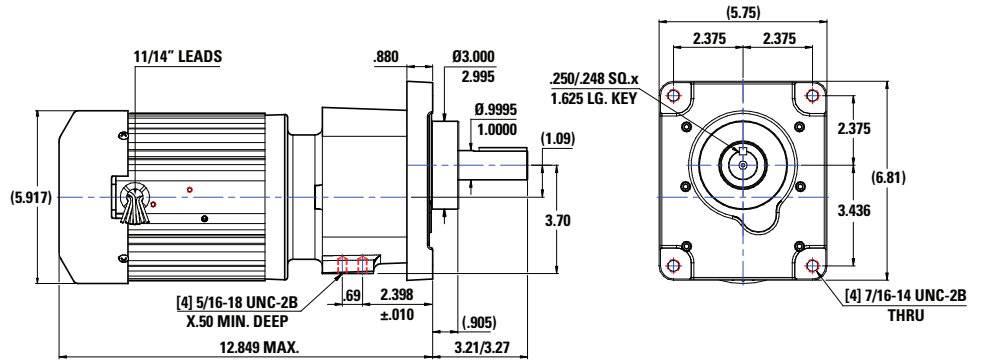
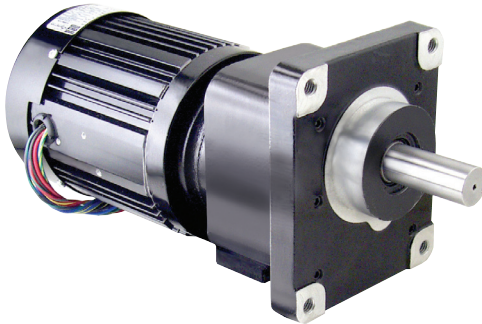
1. SOA: Contact the factory for detailed speed/torque information (Safe Operating Area).



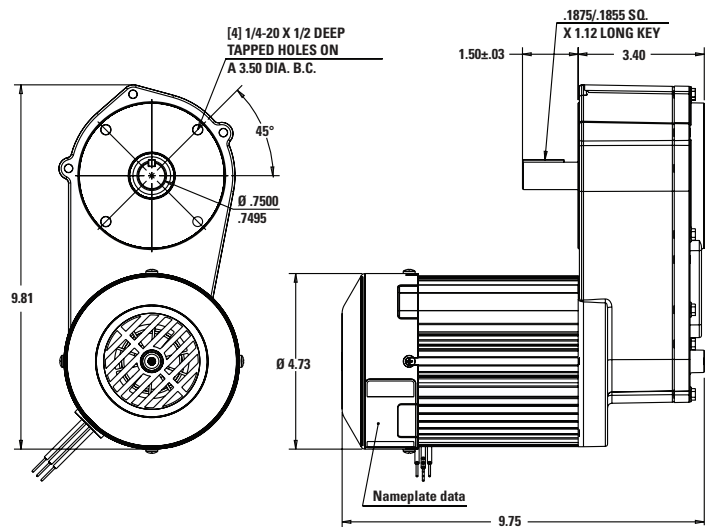
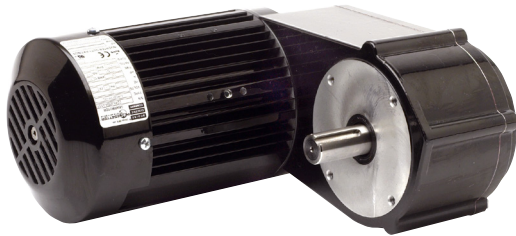
AC Inverter Duty, Three-Phase Gearmotors – Variable Speed

(Dimensions in Inches)

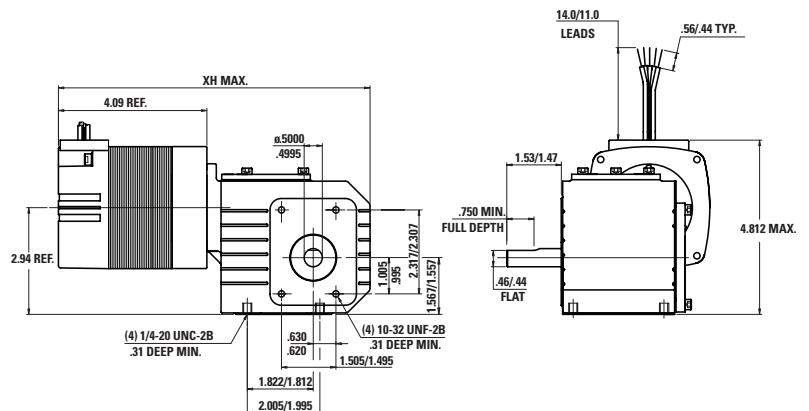
Type 48R-CG Dimensions



Type 42R-HG Dimensions



Type 30R-3RD Dimensions



Type	XH (in.)
30R2-3RD	8.16
30R4-3RD	8.66

