

- Unvented gearhousing
- Flexible mounting and high torque in a compact package
- Face-mount from drive shaft side
- Models with accessory shafts are ideal for mounting encoders or brakes
- See Page 36 for capacitors and terminal boxes
- See page 40 for reference dimensions

Variable Speed—Pacesetter Inverter Duty AC Gearmotors

Fixed Speed Rating					Variable Speed (SOA) Ratings ¹						Radial Load (lbs.)	Product Type	230V Model Number
Speed (rpm)	Torque (lb-in.)	Motor HP	A	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			2247
38	480			45	4-51			373	623	373			2248
63	289			27	7-85			224	368	224			2249



Type 42R-HG Inverter Duty

Fixed Speed—AC Gearmotors

Speed (rpm)	Rated Torque (lb-in.)	Motor HP	V	Hz	Ph	Amps	Gear Ratio	Radial Load (lbs.)	Capacitor (µF/VAC)	Product Type	Model Number	
Permanent Split Capacitor, Non-synchronous (TEFC)												
CAPACITOR IS REQUIRED												
16	599	1/5	115	60	1	2.7	108	350	30.0/250	42R6BFCL-HG	5255	
30	310										56	5257
38	250										45	5258
63	150										27	5259



Type 42R-HG

Permanent Magnet DC Gearmotors

Speed (rpm)	Rated Torque (lb-in.)	Rated Current (Amps)		Motor HP	Gear Ratio	Radial Load (lbs.)	Product Type ²	Accy Shaft		No Accy Shaft	
		24V	90/130V					24V	90/130V		
24V Models With Class F Temperature Rating											
23	680	12	—	1/3	108	350	33A7BEPM-HG	6823	6423	—	—
45	353							6845	6445	—	—
56	284							6856	6456	—	—
93	170							6893	6493	—	—
90/130V Models With Class F Temperature Rating											
16 / 23	481 / 680	—	1.8 / 2.4	1/6 / 1/3	108	350	33A7BEPM-HG	—	—	6323	6023
31 / 45	249 / 353				56			—	6345	6045	
38 / 56	200 / 284				45			—	6356	6056	
64 / 93	120 / 170				27			—	6393	6093	



Type 33A-HG

- Unvented gearhousing for universal horizontal mounting
- Selectively hardened steel gears for quietness and hardened steel spur gearing on subsequent stages for high output torque and long life
- Extra heavy-duty bearings and seals
- Face or base mounting
- Oversize drive shaft
- Models with accessory shafts are ideal for mounting encoders or brakes
- See Page 36 for accessories
- See page 39 for reference dimensions

Variable Speed—Pacesetter Inverter Duty AC Gearmotors

Fixed Speed Rating					Variable Speed (SOA) Ratings ¹						Radial Load (lbs.)	Product Type	230/460V 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	2.7-38	10-90	Constant	1,000	1,000	1,000	250	48R6BFPP-CG	9360
34	850			50	3.2-46			850	850	850			9350
47	650			36	4.4-63			650	650	650			9336
57	540			30	5.3-76			540	540	540			9330
85	360	20	8.0-114	360	360	360	9320						



Type 48R-CG Inverter Duty

Permanent Magnet DC Gearmotors



Type 42A-CG

Speed (rpm)	Rated Torque (lb-in.)	Rated Current (Amps)	Motor HP	Gear Ratio	Radial Load (lbs.)	Product Type ²	Accy Shaft	No Accy Shaft	Accy Shaft	No Accy Shaft
							24V		130V	
24V Models With Class F Temperature Rating										
38	660	18	7/16	60	250	42A7BEPM-CG	4886	4486	—	—
46	550			50			4885	4485	—	—
64	400			36			4884	4484	—	—
77	330			30			4883	4483	—	—
115	220			20			4882	4482	—	—
130V Models with Class F Temperature Rating										
42	580	3.3	7/16	60	250	42A7BEPM-CG	—	—	4786	4086
50	480			50			—	—	4785	4085
69	350			36			—	—	4784	4084
83	290			30			—	—	4783	4083
125	190			20			—	—	4782	4082

A/T Parallel Shaft Gearmotors | up to 120 oz-in.

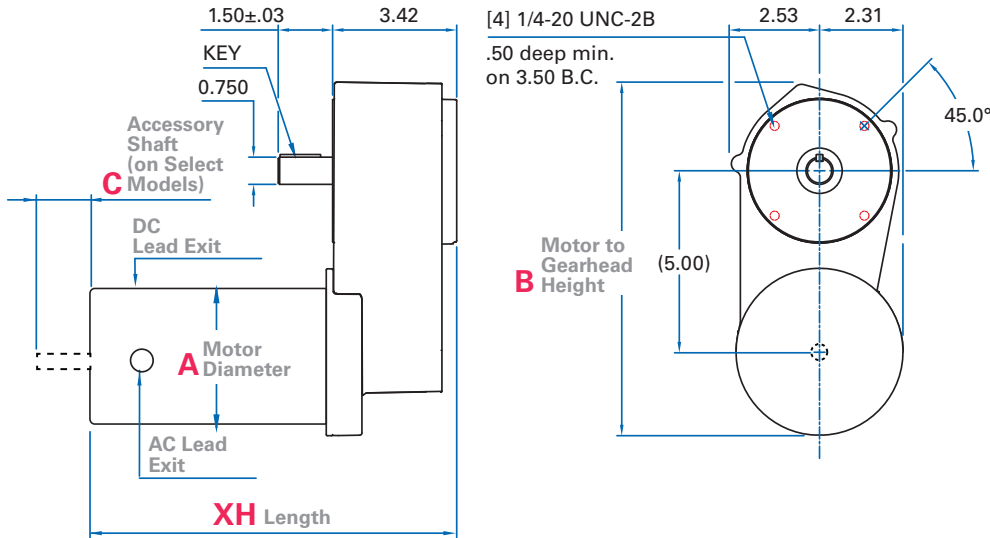
- Totally enclosed, non-ventilated IP-20 rating
- Permanently lubricated, noise tested ball bearings
- Impedance protected to prevent current overload (garmotor should not be stalled when powered up)
- Capacitor is included
- Three-wire winding simplifies reversing
- See page 39 for reference dimensions

Fixed Speed—AC Gearmotors



Type K-2A/T

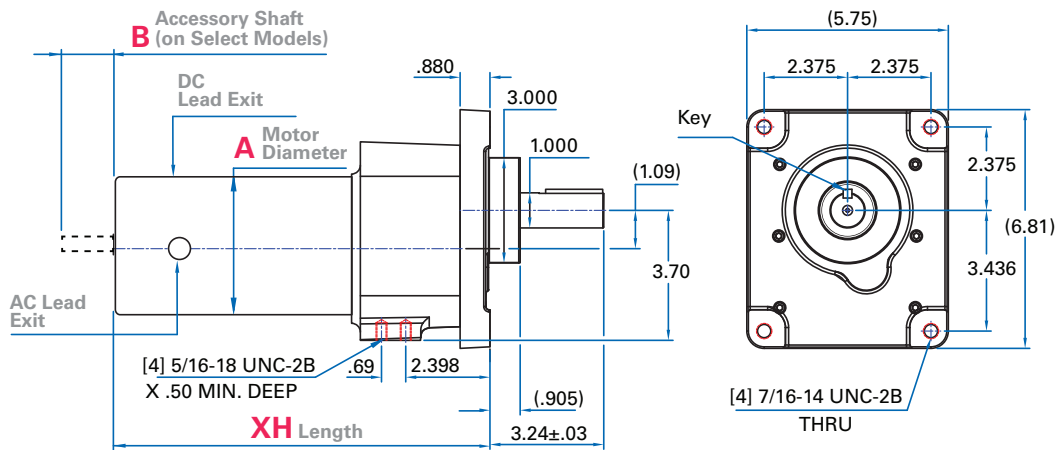
Speed (rpm)	Rated Torque (oz-in.)	Motor HP	V	Hz	Ph	Amps	Gear Ratio	Radial Load (oz.)	Capacitor (µF/VAC)	Product Type	Model Number			
Permanent Split Capacitor Normal Slip, Non-synchronous														
CAPACITOR IS INCLUDED														
0.9	120	1/700	115	60	1	0.07	1800	20	0.9/250	KCI-22T5	0727			
1.9	100	1/700				0.07	900		0.9/250	KCI-22T5	0726			
5.6	95	1/700				0.07	300		0.9/250	KCI-22T4	0724			
9	95	1/700				0.07	180		0.9/250	KCI-22T4	0723			
13	95	1/450				0.083	120		1.0/250	KCI-23T4	0722			
22	95	1/300				0.11	72		1.3/250	KCI-24T4	0733			
26	80	1/300				0.11	60		1.3/250	KCI-24T3	0732			
52	34	1/450				0.083	30		1.0/250	KCI-23A2	0719			
52	59	1/300				0.11	30		1.3/250	KCI-24A2	0731			
86	21	1/450				0.083	18		1.0/250	KCI-23A2	0718			
86	35	1/300				0.11	18		1.3/250	KCI-24A2	0730			
130	24	1/300				0.11	12		1.3/250	KCI-24A2	0729			
260	12	1/300				0.11	6		1.3/250	KCI-24A2	0728			
Permanent Split Capacitor High Slip, Non-synchronous														
CAPACITOR IS INCLUDED														
0.9	120	1/1000	115	60	1	0.072	1800	20	0.9/250	KCI-22T5	0746			
2.3	95	1/1000				0.072	600		0.9/250	KCI-22T5	0744			
4.9	95	1/1000				0.072	300		0.9/250	KCI-22T4	0743			
10	88	1/800				0.083	120		1.0/250	KCI-23T4	0741			
20	80	1/450				0.1	60		1.2/250	KCI-24T3	0750			
40	44	1/450				0.1	30		1.2/250	KCI-24A2	0749			
67	16	1/800				0.083	18		1.0/250	KCI-23A2	0737			
67	27	1/450				0.1	18		1.2/250	KCI-24A2	0748			
200	8.9	1/450				0.1	6		1.2/250	KCI-24A2	0747			
Permanent Split Capacitor, Synchronous														
CAPACITOR IS INCLUDED														
1	120	1/2000	115	60	1	0.069	1800	20	0.9/250	KYC-22T5	0767			
2	100	1/2000				0.069	900		0.9/250	KYC-22T5	0766			
3	88	1/2000				0.069	600		0.9/250	KYC-22T5	0765			
10	72	1/900				0.093	180		1.3/250	KYC-24T4	0776			
15	20	1/2000				0.069	120		.09/250	KYC-22T4	0762			
15	48	1/900				0.093	120		1.3/250	KYC-24T4	0775			
25	29	1/900				0.093	72		1.3/250	KYC-24T4	0774			
60	15	1/900				0.093	30		1.3/250	KYC-24A2	0772			
100	8.9	1/900				0.093	18		1.3/250	KYC-24A2	0771			



Gearhead Type HG, page 11

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

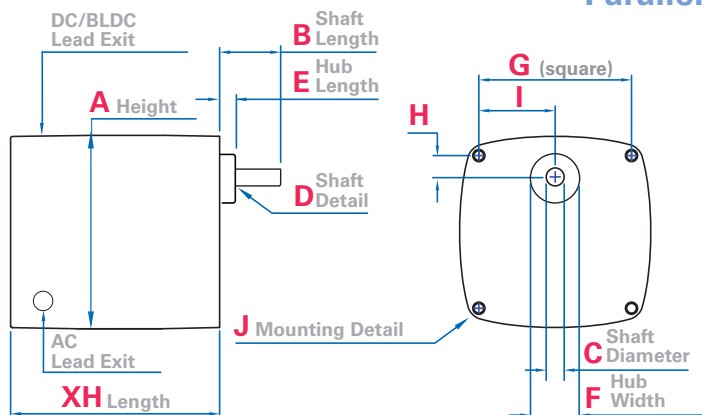
Only the first four characters of the product type are relevant to dimensions



Gearhead Type CG, page 11-12

	Product Type	Weight (lbs.)	XH Length	A Diameter	B Acc'y Shaft	Lead/Cord Length (in.)
48R-CG	48R6-CG	34	12.849	5.917	No	12
42A-CG	42A7-CG	29	12.07	4.262	Yes	24

Only the first four characters of the product type are relevant to dimensions

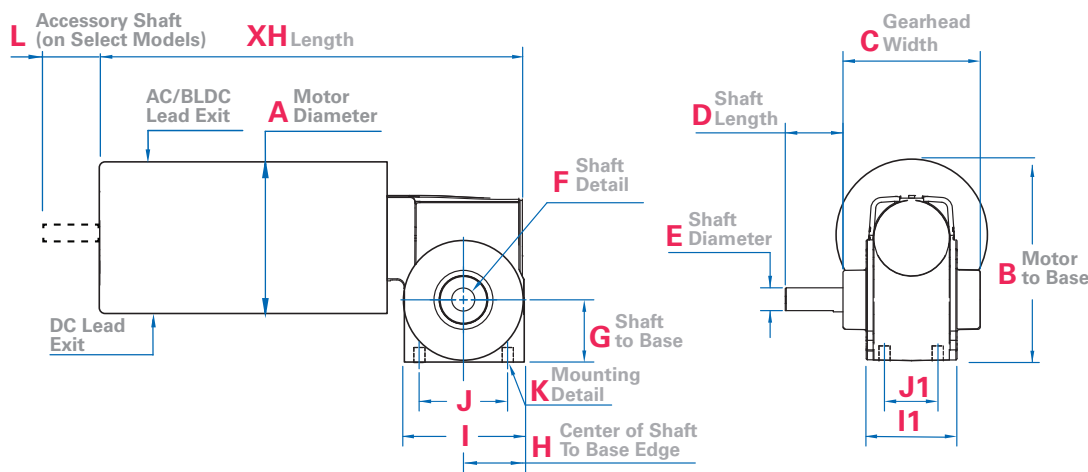


Gearhead Type 30R-D, K-2A/T, pages 5, 12

	Product Type	Wt. (lbs.)	XH Length (square)	A Height (square)	B Shaft Length	C Shaft Diameter	D Shaft Detail	E Hub Length	F Hub Width	G Mounting Pattern Width	H Shaft Center to Mounting Hole	I Shaft Center to Mounting Hole	J Mounting Detail	Lead/Cord Length (in.)
Type K-2 Gearmotor														
K-2T	22	2.2	2.539	2.38	1.00	.250	Flat	.255	.52	1.900	.356	.950	[2]8-32 UNC-2A	12
	23	2.4	2.664											
	24	2.7	3.023											
K-2A	23	2.3	2.507	2.38	1.00	.250	Flat	.255	.52	1.900	.356	.950	[2]8-32 UNC-2A	12
	24	2.6	2.866											
Type 30R-D Gearmotor														
30R-D	30R1	5.8	5.242	3.45	1.56	.500	Flat	.554	1.125	2.652	.582	1.326	[4]10-32 UNF-2B x .38 deep Max.	12
	30R2	6.3	5.492											
	30R4	7.5	6.000											

Right Angle Gearmotor Dimensions **3N | 3F**

Dimensions (in inches) are for reference only. For CAD drawings and specs, visit bodine-electric.com.



Gearhead Type 3N/3F, pages 13-14 (Mounts from Gearhead)

	Weight (lbs.)	XH Length	A Dia-meter	B Motor to Base	C Gearhead Width	D Shaft Length	E Shaft Diameter	F Shaft Detail	G Shaft to Base	H Center of Shaft to Base	I Base Length	I1 Base Width	J Mounting Hole Length	J1 Mounting Hole Width	K Mounting Detail	L Acc'y Shaft	Cord/Lead Length (in.)
30R4-3N	7.5	7.192	3.34	4.30	2.871	1.00	.500	Flat	1.28	1.28	2.56	2.111	2.00	1.188	[4]1/4 -20 UNF-2B x .50 deep	No	12
34R4-3F	9.3	8.61	4.02	4.37												No	12
24A4-3F	5.3	7.422	2.42	3.57												Yes	24
22B4-3N	5.4	7.677	2.378	3.80												No	12 or 24
22B4-3N INTEGRA	5.4	8.79	2.93	3.82												No	None

Only the first four characters of the product type are relevant to dimensions