

Brushless DC Gearmotors

Speed (rpm)	Rated Torque (lb-in.)	Rated Current (Amps)		Peak Torque (lb-in.)	Motor HP	Gear Ratio	Radial Load (lbs.)	Product Type ²	Accy Shaft	No Accy Shaft	Accy Shaft	No Accy Shaft
		24V	130V									
									24V	130V		
34B-5N Right Angle Gearmotor												
62	109	—	2.7	174	3/8	40	220	34B6BEBL-5N	—	—	—	N3396
62	79	12	2.0	174	1/4	40	230	34B4BEBL-5N	N3691	N3591	N3491	N3391
62	74	9.6	1.5	174	1/5	40	230	34B3BEBL-5N	—	N3586	—	3386
83	104	—	2.6	166	3/8	30	210	34B6BEBL-5N	—	—	—	N3397
83	75	12	2.0	166	1/4	30	210	34B4BEBL-5N	N3692	N3592	N3492	N3392
83	70	9.6	1.6	166	1/5	30	210	34B3BEBL-5N	—	N3587	—	N3387
125	98	—	2.6	156	3/8	20	180	34B6BEBL-5N	—	—	—	N3398
125	75	12	2.0	156	1/4	20	180	34B4BEBL-5N	N3693	N3593	3493	N3393
125	59	9.6	1.5	156	1/5	20	180	34B3BEBL-5N	—	N3588	—	N3388
250	64	—	2.7	161	3/8	10	140	34B6BEBL-5N	—	—	—	3399
250	42	12	2.0	161	1/4	10	140	34B4BEBL-5N	N3694	N3594	N3494	N3394
250	33	9.6	1.6	140	1/5	10	150	34B3BEBL-5N	—	N3589	—	N3389
500	36	—	2.6	142	3/8	5	120	34B6BEBL-5N	—	—	—	N3378
500	24	12	2.0	94	1/4	5	120	34B4BEBL-5N	N3695	N3595	N3495	N3395
500	18.6	9.6	1.6	74	1/5	5	120	34B3BEBL-5N	—	N3590	—	N3390



Type 34B-5N

INTEGRAmotor BLDC Gearmotors

Speed (rpm)	Rated Torque (lb-in.)	24V Rated Current (Amps)	Peak Torque (lb-in.)	Motor HP	Gear Ratio	Radial Load (lbs.)	Product Type	Model Number ³
63	104	12	—	1/4	40	230	34B4FEBL/FV-5N	N3780
83	95		—		30	210	34B4FEBL/FV-5N	N3781
125	73		—		20	180	34B4FEBL/FV-5N	N3782
250	44		—		10	140	34B4FEBL/FV-5N	3783
500	24		—		5	120	34B4FEBL/FV-5N	N3784



Type 34B/FV-5N INTEGRAmotor

up to 121 lb-in. | Right Angle Gearmotors

5F

- Unvented gearhousing for universal horizontal mounting
- Bronze worm gear for high shock load capability
- Hardened and ground worm for strength and long life
- Models with accessory shafts are ideal for mounting encoders or brakes
- See page 34 for capacitors and terminal boxes
- See page 39 for reference dimensions

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											
19 / 23	121 / 102	1/9	115	50 / 60	1	1.8 / 1.4	75	80	12.5 / 250	34R6BFCI-5F	0524
23 / 28	111 / 93						60				N0523
28 / 34	104 / 87						50				N0522
35 / 43	93 / 78						40				0521
47 / 57	83 / 70						30				N0519
70 / 85	60 / 50						20				0518
93 / 113	49 / 41						15				N0514
140 / 170	35 / 29						10				0513
280 / 340	19 / 16						5				N0511



Type 34R-5F

Permanent Magnet DC Gearmotors

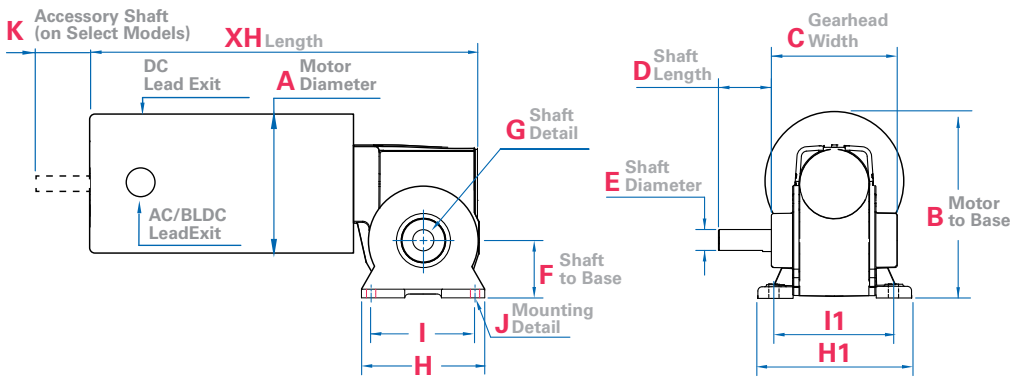
Speed (rpm)	Rated Torque (lb-in.)	Rated Current (Amps)		Peak Torque (lb-in.)	Motor HP	FF	Gear Ratio	Radial Load (lbs.)	Product Type ²	Accy Shaft	No Accy Shaft	Accy Shaft	No Accy Shaft
		24V	130V										
										24V	130V		
62	55	5.3	0.91	118	1/8	1.0	40	80	33A5BEPM-5F	N6824	N6124	N6544	6144
125	38			83			20			N6825	N6115	6542	6142
250	21			44			10			N6822	N6122	N6541	6141
500	11			23			5			N6820	N6121	N6540	6140



Type 33A-5F

These models feature sleeve bearings on driveshaft.

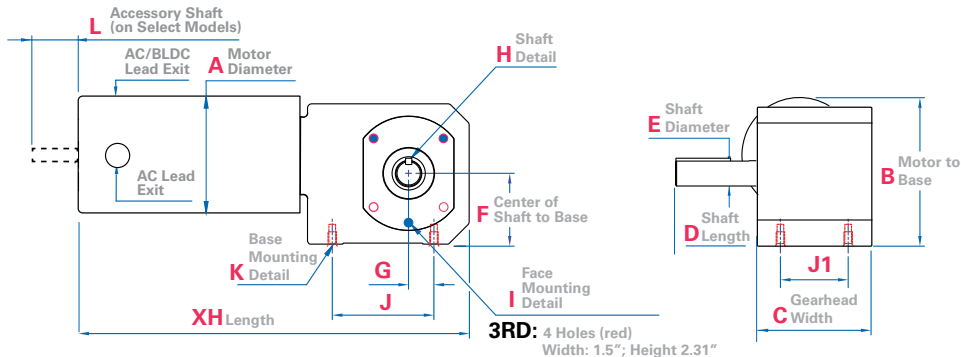
¹ SOA: Contact the factory for detailed speed/torque information (Safe Operating Area). See page 19.
² The fifth character of the product type changes from "B" to "F" for accessory ready models.
³ Type FV INTEGRAmotors require a PWM signal from a motion controller or PLC to operate.
"N" model numbers require lead time and minimum quantities.



Gearmotor Type 5N, 5F, 5H, pages 14-16 (Mounts from Gearhead with Feet)

	Product Type	Wt. (lbs.)	XH Length	A Dia-meter	B Motor to Base	C Gearhead Width	D Shaft Length	E Shaft Diameter	F Shaft to Base	G Shaft Detail	H Base Length	H1 Base Width	I Mounting Hole Length	I1 Mounting Hole Width	J Mounting Detail	K Acc'y Shaft	Cord/Lead Length (in.)										
Type 5N Gearmotor																											
42R-5N	42R5-5N	15.5	10.103	4.73	5.64	3.568	1.50	.625	1.67	Key/Flat	3.56	3.81	3.00	3.25	[4]ø .271/.266 Holes	No	12										
	42R6-5N	17.5	10.540													Yes	24										
42A-5N	42A5-5N	14.3	10.198	4.62	5.40											4.723	2.38	.750	3.000	Key	5.62	6.263	3.875	5.373	[4]ø.41/.44 Holes	No	12
	34B3-5N	9.0	7.723	4.02	5.26																					Yes	12 or 24
	34B4-5N	10.0	8.223																							No	
34B6-5N	12.0	9.233			Yes											24											
Type 5F Gearmotor																											
34R-5F	34R6-5F	12.0	10.206	4.02	5.28	4.723	2.38	.750	3.000	Key/Flat	3.56	3.81	3.00	3.25	[4] ø.271/.266 Holes	No	12										
33A-5F	33A5B-5F	9.9	9.711	3.39	4.96											Yes	24										
	33A5F-5F	9.9	9.701													No											
Type 5H Gearmotor																											
48R-5H	48R6-5H	40.0	12.928	5.90	8.07	4.723	2.38	.750	3.000	Key	5.62	6.263	3.875	5.373	[4]ø.41/.44 Holes	No	12										
42A-5H	42A7-5H	24.4	12.947	4.26	7.25											Yes	24										

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



Gearhead Type 3RD, GB, pages 16-17

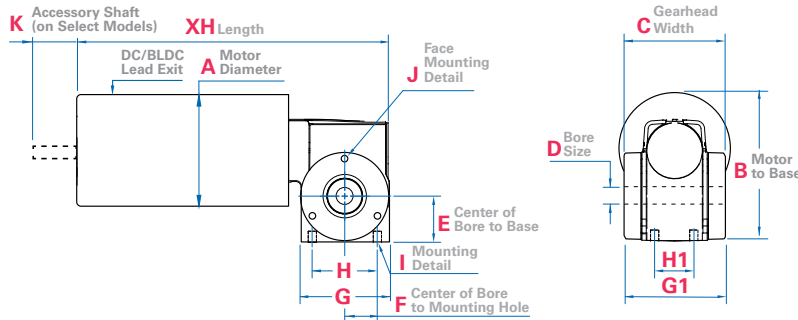
3RD: 4 Holes (red)
Width: 1.5"; Height 2.31"
GB: 3 Holes (blue)

	Product Type	Wt. (lbs.)	XH Length	A Dia-meter	B Motor to Base	C Gear-head Width	D Shaft Length	E Shaft Diameter	F Shaft to Base	G Shaft to Mounting Hole Center	H Shaft Detail	I Face Mounting Detail	J Mounting Hole Length	J1 Mounting Hole Width	K Base Mounting Detail	L Acc'y Shaft	Cord/Lead Length (in.)										
Type 3RD Gearmotor																											
30R-3RD	30R2	9.0	8.140	3.36	4.812	3.60	1.50	.500	1.562	.625	Flat	[4]10-32 UNF-2B x .31 Deep Min.	2.000	2.50	[4]1/4 -20 UNF-2B .31 deep	No	12										
	30R4	10.5	8.640													Yes	24										
24A-3RD	24A2	9.0	8.07	2.42	4.147											4.723	2.38	.750	2.150	.75	Key	[3]5/16 -18 UNF-2B x .50 Deep Max. on 2.913 B.C.	3.00	2.00	[4]1/4 -20 UNF-2B .40 Deep Min.	Yes	12
	24A4	10.5	8.82																							No	24
22B-3RD	22B2	6.5	8.085	2.378	4.377																					2.362	.748
	22B4	6.5	9.045													Yes	24										
Type GB Gearmotor																											
42R-GB	42R5	17.5	11.458	4.73	5.06	3.335	2.38	.750	2.150	.75	Key	[3]5/16 -18 UNF-2B x .50 Deep Max. on 2.913 B.C.	3.00	2.00	[4]1/4 -20 UNF-2B .40 Deep Min.	No	12										
	42R6	19.5	11.893													Yes	12										
33A-GB	33A5	13.6	11.067	3.39	4.38											4.723	2.38	.750	2.150	.750	Key	[3]5/16 -18 UNF-2B x .50 Deep Max. on 2.913 B.C.	3.00	2.00	[4] M6 X 1-6H .45 Deep Max.	No	24
	33A7	14.9	12.268																							Yes	12
42A-GB	42A5	18.0	11.554	4.26	4.82																					4.723	2.38

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

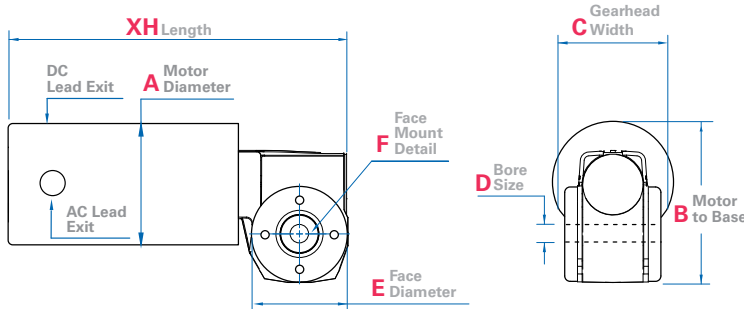
Hollow Shaft Gearmotor Dimensions

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



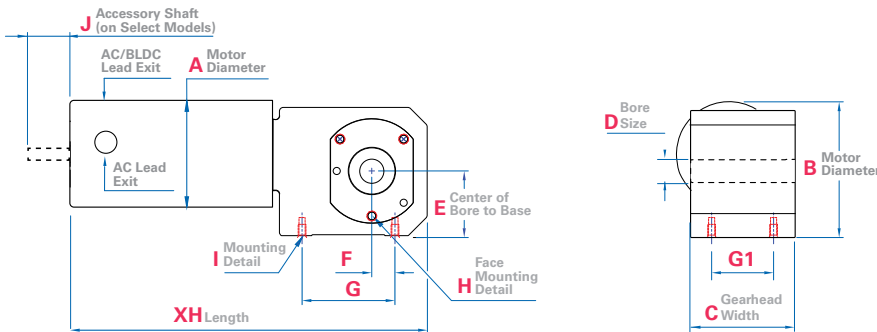
Gearhead Type 3F/H, pages 12-13 (Mounts from Gearhead)

	Wt. (lbs.)	XH Length	A Diameter	B Motor to Base	C Gearhead Width	D Bore Size	E Bore to Base	F Bore to Mtg. Hole	G Base Length	G1 Base Width	H Mounting Hole Length	H1 Mounting Hole Width	I Mounting Detail	J Face Mount Detail	K Acc'y Shaft	Cord/Lead Length (in.)
24A4-3F/H	5.3	7.422	2.42	3.57	3.085	.502	1.280	1.000	2.56	3.085	2.00	1.188	[4] 1/4 -20 UNF-2B .35 Min. Deep Max.	[3] 10-32 UNF-2B .35 Min. Deep on 2.125 B.C.	Yes	24
22B4-3F/H	5.4	7.677	2.378	3.80											No	12 or 24
22B4-3F/H INTEGRA	5.4	8.79	2.93	3.823											No	None



Gearhead Type 5L/H, page 14 (Face Mount)

	Product Type	Weight (lbs.)	XH Length	A Diameter	B Motor to Base	C Gearhead Width	D Bore Size	E Face Diameter	F Face Mount Detail	Lead/Cord Length (in.)
33A-5L/H	33A5		9.711	3.39	5.04	2.740	.627	3.50	[4] 1/4-20 UNF-2B x .44 Min. Deep on 2.375 B.C.	24
42R-5L/H	42R6		10.540	4.73	5.71					None



Type GB/H, page 17 (Face Mount)

	Product Type	Wt. (lbs.)	XH Length	A Diameter	B Motor to Base	C Gearhead Width	D Bore Size	E Bore to Base	F Bore to Base	G Mounting Hole Length	G1 Mounting Hole Width	H Face Mounting Detail	I Mounting Detail	J Acc'y Shaft	Lead/Cord Length (in.)
42R-GB/H	42R5	17.5	11.456	4.73	5.06	3.335	.752	2.150	.75	3.00	2.00	[3] 5/16-18 UNF-2B x .44 Max. Deep on 2.913 B.C.	[4] 1/4-20 UNF-2B x .40 Min. Deep	No	12
	42R6	19.5	11.893											No	24
33A-GB/H	33A5	13.6	11.067	3.39	4.38									No	24
42A-GB/H	42A5	19.5	11.554	4.26	4.82									Yes	24

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