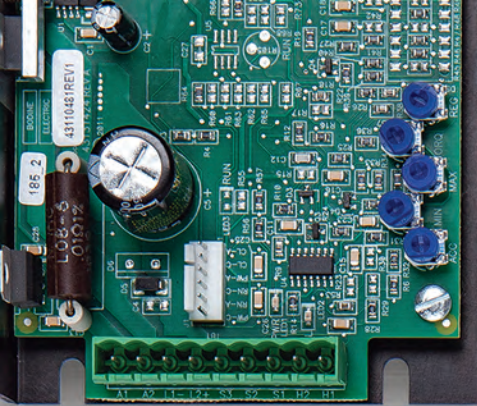
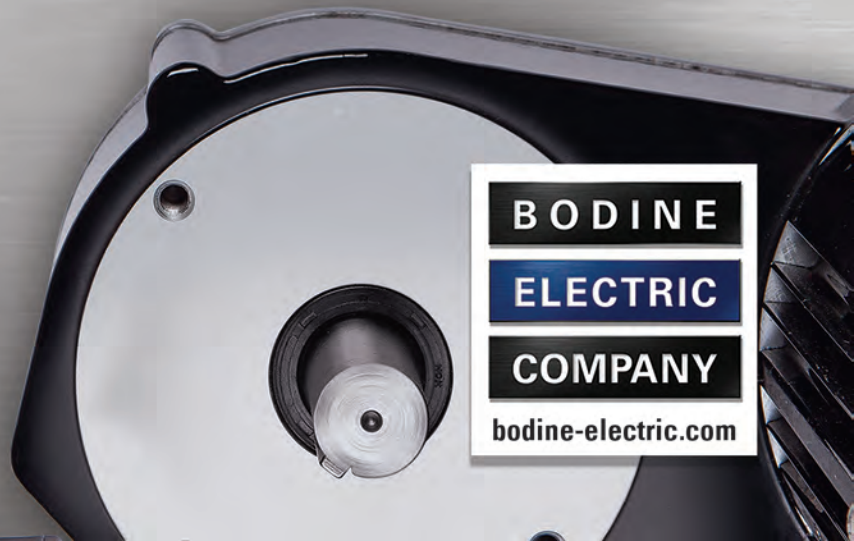
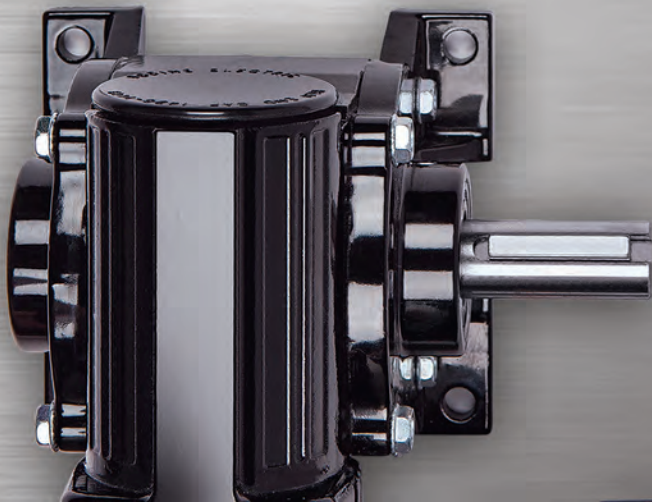
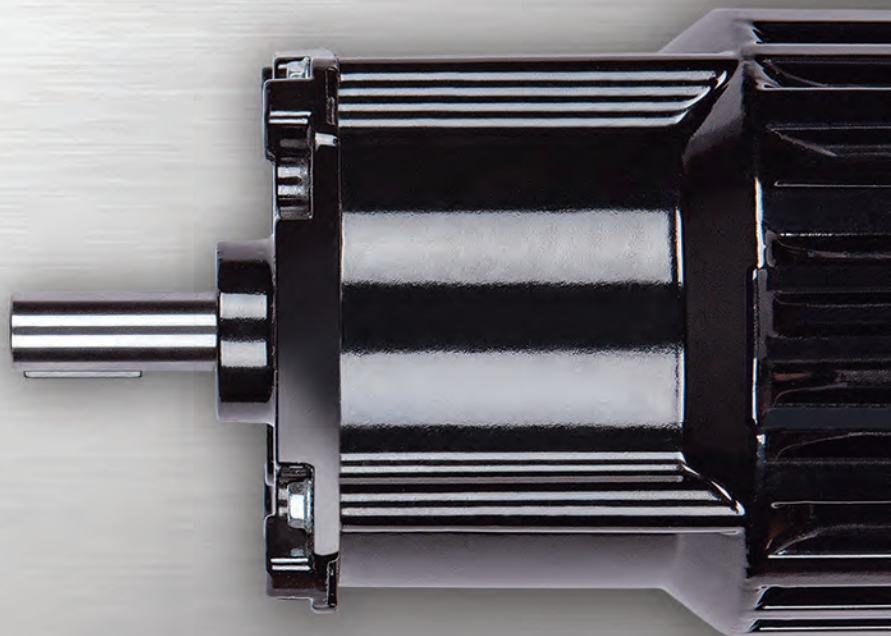




STANDARD PRODUCTS

RIGHT ANGLE GEARMOTORS

AC
PMDC
BLDC

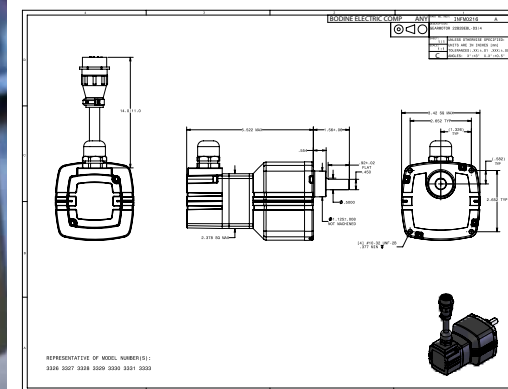
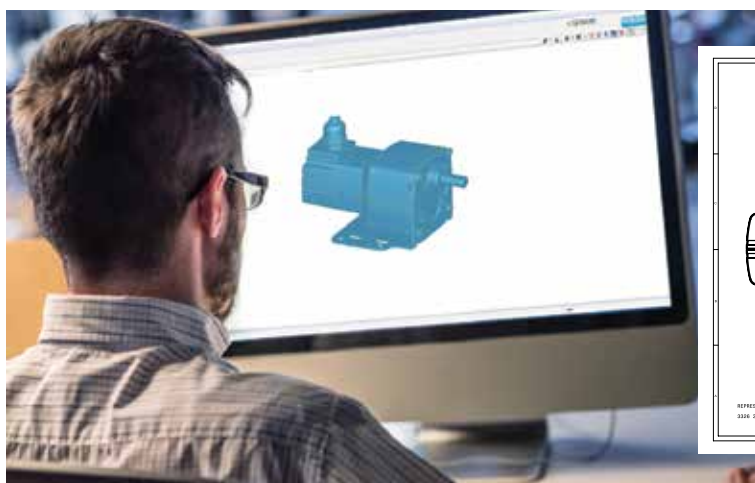


BODINE
ELECTRIC
COMPANY

bodine-electric.com

For 2D/3D CAD drawings and distributor locations, go to www.bodine-electric.com

Our website features the latest product specifications, technical documents, connection diagrams and instruction manuals. Dimension drawings and 3D models can be imported from the website directly into most CAD software programs. You will also find information about Bodine's newest products, our distributor locator, and helpful Tech Tools designed to answer the most commonly asked motion control questions.



UL/CSA Safety Compliance

Products are marked cURus or UR/CSA, and most products meet CE. All products are also



RoHS compliant.

Motors and gearmotors

conform to UL standard 1004 and CSA standard C22.2 No. 100. They are documented in UL file number E47177 and CSA file number LR2797.

Electronic controls conform to UL standard 508 and CSA standard C22.2 No. 14. They are documented in UL file number E44529 and CSA file number LR26397.

Motor Options

For the comparative advantages of AC motors and gearmotors, see page 21.

Variable speed

Pacesetter AC motors

- Voltage ratings are 230 VAC, 60 Hz (3-phase) or 230/460 VAC, 60 Hz (3-phase)

Fixed-speed AC motors

- Voltage ratings are 115 VAC, 60 Hz (single-phase) or 230 VAC, 60 Hz (3-phase)
- Metric voltage ratings are 230 VAC, 50 Hz (1- or 3-phase)

Permanent Magnet DC motors

- Voltage ratings are 12/24 VDC, 24 VDC, 90/130 VDC or 130 VDC
- Metric voltage rating is 180 VDC
- Compatible with 90 V controls (90/130 VDC and 130 VDC only)

Brushless DC (ECM) motors

- Voltage ratings are 24 or 130 VDC

	Variable Speed Pacesetter Inverter Duty AC				Fixed-Speed AC					Permanent Magnet DC			Brushless DC		INTEGRA BLDC	
	30R	34R	42R	48R	K-2	30R	34R	42R	48R	24A	33A	42A	22B	34B	22B	34B
Power (HP)	1/25-1/17	1/8-1/4	3/8	1/3-3/4	1/1600- 1/200	1/40-1/30	1/15-1/5	1/12-1/4	1/5-1/2	1/50-1/7	1/16-1/3	1/4-1/2	1/16-1/5	1/5-3/8	1/16-1/8	1/4
Torque (oz-in.)	24-35	70-148	222	185-445	0.35-3.2	10-20	38-119	48-148	112-296	8-24	34-134	101-180	20-50	33-151	25-50	100
Rated Speed (rpm)	1700	1700, 1800	1700	1700, 1800	1200, 1550, 1800, 3600	1700, 1800, 3400	1700, 1800, 3400	1700, 3450	1700, 1800	2500, 11,500	2500	2500	2500, 10,000	2500, 10,000	2500	2500

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2 Year
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Right Angle Gearmotors

3N/3F

Right Angle Gearmotors | up to 37 lb-in.

- Unvented gearhousing for universal horizontal mounting
- Permanently lubricated with high-performance lubricant
- Bronze gear for high shock load capability
- Hardened and ground worm for high strength and long life
- Models with accessory shafts are ideal for mounting encoders or brakes
- See page 34 for capacitors and accessories
- See pages 38 and 40 for reference dimensions

Variable Speed—Pacesetter Inverter Duty AC Gearmotors



Type 30R-3N
Pacesetter

Fixed Speed Rating					Variable Speed (SOA) Ratings ¹						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.)		
28	37	1/17	0.48	60	2.2-36	10-90	constant	37	37	37	30R4BEPP-3N	N2290
34	36			50	2.7-43		variable	33	37	37		N2292
43	37			40	3.3-54		constant	37	37	37		N2293
85	25			20	6.6-108		variable	24	36	36		2294
170	14			10	13-216		variable	16	28	22		N2296
340	8			5	27-431		variable	9	15	12		N2297

Three-Phase, Inverter Duty, Non-synchronous Motor (TENV)

Fixed Speed—AC Gearmotors



Type 34R-3F

Speed (rpm)	Rated Torque (lb-in.)	Motor HP	V	Hz	Ph	Amps	Gear Ratio	Radial Load (lbs.)	Capacitor (μF/VAC)	Product Type	Model Number
28	37	1/15	115	60	1	1.0	60	40	10.0/250	34R4BFCI-3F	0492
43	37						40	40			0491
57	30						30	40			0487
85	27						20	40			0490
113	20						15	5			0489
170	16						10	5			0488

Permanent Split Capacitor, Non-synchronous

CAPACITOR IS REQUIRED

Permanent Magnet DC Gearmotors



Type 24A-3F
(Mounting from
base of gearhead)

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	
Mounting From Base Of Gearhead													
42	22	2.6	0.48	46	1/17	1.0	60	40	24A4BEPM-3F	N4899	N4699	N4099	0099
63	19			46			40	40		N4898	N4698	N4098	0098
125	16			32			20	5		N4896	N4696	N4096	0096
250	10			20			10	5		N4894	4694	N4094	0094
500	5.2			10			5	5		N4893	N4693	N4093	0093

Mounting From Base Of Gearhead



Type 24A-3F
(Mounting from
base of motor)

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
42	22	0.48	46	1/17	1.0	60	40	24A4BEPM-3F	—	—	—	N0089
63	19		46			40	40		—	—	—	0088
125	16		32			20	5		—	—	—	0087
250	10		20			10	5		—	—	—	0086
500	5.2		10			5	5		—	—	—	N0084

Mounting From Base Of Motor

Hollow Shaft

24 V Models With Class F Temperature Rating

250	14	3.7	—	20	1/13	—	10	60	24A4BEPM-3F/H	—	N7694	—	—
500	6.8		—	10		—	5	70		N7893	—	—	—

90 V/130 V Models With Class F Temperature Rating

29/42	35 / 37	0.56 / 0.81	—	46	1/23 / 1/11	1.4 / 1.0	60	100	24A4BEPM-3F/H	—	—	—	7099
43/63	29 / 37		—	46			40	90		—	—	—	7098
86/125	18 / 26		—	32			20	80		—	—	—	7096
173/250	10 / 16		—	20			10	70		—	—	—	7094
345/500	5.5 / 8.2		—	10			5	60		—	—	—	7093

Brushless DC Gearmotors



Type 22B-3N

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	
42	37	5.9	1.0	147	1/8	60	100	22B4BEBL-3N	N3665	3565	N3421	N3321
62	37			123		40	90		N3666	N3566	N3422	3322
125	35			74		20	80		3667	N3567	N3423	N3323
250	22			46		10	70		N3668	N3568	3424	N3324
500	11			23		5	60		N3669	N3569	N3425	3325

INTEGRAMotor BLDC Gearmotors

Motor Output				Control Input			Product Type ²	Model Number	
Speed Range (rpm)		Torque (lb-in.)	Gear Ratio	Motor HP	Volts (VDC)	Continuous Amps		Type SR	Type FV
Type SR	Type FV							Analog Interface	Digital Interface
3-42	1.3-42	37	60	1/8	24	5.9	22B4BEBL/**-3N	N3865	N3765
5-62	2-62	37	40					3866	N3766
10-125	4-125	35	20					N3867	N3767
20-250	7.5-250	22	10					3868	N3768
40-500	15-500	11	5					N3869	N3769

Hollow Shaft

3-42	1.3-42	37	60	1/8	24	5.9	22B4BEBL/**-3F/H	N8865	N8765
5-62	2-62	37	40					N8866	N8766
10-125	4-125	35	20					N8867	N8767
20-250	7.5-250	22	10					N8868	N8768
40-500	15-500	11	5					N8869	N8769



Type 22B/SR-3N
INTEGRAMotor



Type 22B/SR-3F/H
INTEGRAMotor
Hollow Shaft

up to 77 lb-in. | Right Angle Gearmotors

5R/5L

- Unvented gearhousing for universal horizontal mounting
- Permanently lubricated with high-performance lubricant
- Bronze gear for high shock load capability
- Hardened and ground worm for high strength and long life
- See page 34 for capacitors and terminal boxes
- See page 38 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
34R-5R Permanent Split Capacitor, Non-synchronous, Class B Temperature Rating (TEFC)										CAPACITOR IS REQUIRED	
28	33	1/15	115	60	1	1.0	60	50	10.0/250	34R4BFC1-5R	0469
43	49						40	50			0468
85	32						20	50			0466
170	18						10	30			0465
42R-5L Permanent Split Capacitor, Non-synchronous, Class B Temperature Rating (TEFC)										CAPACITOR IS REQUIRED	
43	77	1/8	115	60	1	1.7	40	80	12.5/250	42R4BFC1-5L	0627
57	75						30	80			0626
85	54						20	80			0624
170	31						10	10			0623
42R4-5L Split Phase, Non-synchronous, Class B Temperature Rating (TEFC)											
43	77	1/8	115	60	1	3.0	40	80	—	42R4BFS1-5L	0620
57	75						30	80			0619
85	54						20	80			0618
170	31						10	10			0617



Type 34R-5R



Type 42R-5L

Permanent Magnet DC Gearmotors

Speed (rpm)	Rated Torque (lb-in.)	130V Rated Current (Amps)	Peak Torque (lb-in.)	Motor HP	FF	Gear Ratio	Radial Load (lbs.)	Product Type	Model Number
33A-5R 130V Models With Class B Temperature Rating, Grease Lubrication									
50	45	0.71	118	1/12	1.0	40	80	33A3BEPM-5R	6128
67	41		83			30	80		6127
100	29		44			20	80		6126
200	17		23			10	80		6125
33A-5L 130V Models With Class F Temperature Rating, Oil Lubrication									
50	77	1.4	179	1/6	1.0	40	80	33A5BEPM-5L	6119
67	75		169			30	80		6118
100	63		159			20	80		6117
200	37		91			10	80		6116
42A-5L 130V Models With Class F Temperature Rating, Oil Lubrication									
33	117	1.3	185	1/6	1.0	60	80	42A4BEPM-5L	N4120
50	77		177			40	80		4119
67	75		169			30	80		4118
100	63		159			20	80		4117
200	37		91			10	80		4116



Type 33A-5R



Type 42A-5L

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.

** INTEGRAMotor can be ordered with either analog (/SR) or digital (/FV) interface option.

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

- *Type 5N only:* Needle bearings on driveshaft for high radial load capacity and long life
- *Type 5L/H only:* Ball bearings for high radial load and long life

- Unvented gearhousing for universal horizontal mounting
- Bronze worm gear for high shock load capability
- Hardened and ground worm for strength and long life

- See page 34 for capacitors and terminal boxes
- See pages 39 and 40 for reference dimensions

Variable Speed—Pacesetter Inverter Duty AC Gearmotors

Type 42R-5N
Pacesetter

Type 42R-5L/H

Fixed Speed Rating						Variable Speed (SOA) Ratings ¹						Product Type	230V Model No.	230/460V Model No.
Speed (rpm)	Torque (lb-in.)	HP	(230V) A	(230/460V) 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.)			
42R-5N Gearmotor														
Three-Phase, Inverter Duty, Non-synchronous (TEFC)														
23	121	3/8	1.90	1.90/0.95	75	2.4-31	10-90	constant	116	116	116	42R6BFPP-5N	2270	2870
43	113				40	4.4-57		constant	109	109	109		2271	2871
57	109				30	5.9-77		constant	104	104	104		N2275	2875
85	103				20	8.9-115		constant	98	98	98		2272	2872
170	101				10	18-229		variable	66	105	101		2273	2873
340	54				5	35-458		variable	38	68	59		2274	2874
42R-5L/H Hollow Shaft Gearmotor														
Three-Phase, Inverter Duty, Non-Synchronous (TEFC)														
23	121	3/8	1.90	1.90/0.95	75	2.4-31	10-90	variable	121	121	116	42R6BFPP-5L/H	N2470	N2670
43	113				40	4.4-57		constant	109	109	109		N2471	N2671
57	109				30	5.9-77		constant	104	104	104		N2475	N2675
85	103				20	8.9-115		constant	98	98	98		2472	N2676
170	101				10	18-229		variable	66	105	101		N2473	N2673
340	54				5	35-458		variable	38	68	59		N2474	N2674

Fixed Speed—AC Gearmotors



Type 42R-5N

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										CAPACITOR IS REQUIRED	
38	113	1/6	115	60	1	2.1	40	180	15.0/350	42R5BFCI-5N	0678
75	81						20				0677
150	47						10				0672
300	25						5				0670
Split Phase (with centrifugal switch), Non-synchronous											
43	113	1/6	115	60	1	3.6	40	180	—	42R5BFSI-5N	0648
85	75						20		—		0647
170	43						10		—		0646
340	23						5		—		0645
Three-phase, Non-synchronous											
43	113	1/4	230	60	3	1.3	40	180	—	42R5BFPP-5N	0634
85	103						20		—		0633
170	67						10		—		0630
340	36						5		—		0629

Permanent Magnet DC Gearmotors



Type 42A-5N



Type 33A-5L/H Hollow Shaft

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
		12/24V	90/130V										
42A-5N Gearmotor													
12/24V Models With Class F Temperature Rating													
25/62	109	17	—	177	3/16 / 7/16	1.0	40	120	42A5FEP-5N	5838	5738	—	—
33/83	104		—	169			5837			5737	—	—	
50/125	98		—	159			5836			5736	—	—	
100/250	80		—	91			5835			5735	—	—	
200/500	43		—	49			5834			5734	—	—	
90/130V Models With Class F Temperature Rating													
45/62	109	1.9/1.8	—	177	3/16 / 1/4	1.4 / 1.0	40	120	42A5BEP-5N	—	—	4538	4138
60/83	104		—	169			—			—	4537	4137	
90/125	83		—	159			—			—	4536	4136	
180/250	44		—	91			—			—	4535	4135	
360/500	24		—	49			—			—	4534	4134	
33A-5L/H Hollow Shaft Gearmotor													
90/130V Models With Class F Temperature Rating													
43 / 62	84/109	1.4 / 1.8	—	177	1/8 / 1/4	1.4 / 1.0	40	120	33A5BEP-5L/H	—	—	—	N6738
58 / 83	75/100		—	169			—			—	—	N6737	
86/125	54/78		—	159			—			—	—	N6736	
173/250	31/42		—	91			—			—	—	6735	
345/500	17/22		—	49			—			—	—	N6734	

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	34B4BEBL/FV-5N	N3782
250	44		—		10	140	34B4BEBL/FV-5N	3783
500	24		—		5	120	34B4BEBL/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	34R6BFCL-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						N6825	N6115	6542	6142
250	21			44						N6822	N6122	N6541	6141
500	11			23						N6820	N6121	N6540	6140

Type 33A-5F

These models feature sleeve bearings on the 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.

- Unvented gearhousing for universal horizontal mounting
- Hardened worm gears

- Face-mount on the drive-shaft side, or bottom-mount is standard
- 42A-5H only: Single and double shaft configurations available

- See page 34 for capacitors and terminal boxes
- See page 39 for reference dimensions

Variable Speed—Pacesetter Inverter Duty AC Gearmotors

Type 30R-3RD
Pacesetter

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

Fixed Speed—AC Gearmotors



Type 30R-3RD

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											
0.4	95	1/30	115	60	1	0.5	3600	160	5.0/250	30R2BECI-3RD	N8536
1.1	126	1/30				0.5	1400		5.0/250	30R2BECI-3RD	N8514
2.6	148	1/27				0.49	600		9.0/250	30R4BECI-3RD	N8506
5.2	101	1/27				0.49	300		9.0/250	30R4BECI-3RD	N8503
7.8	88	1/27				0.49	200		9.0/250	30R4BECI-3RD	N8502

CAPACITOR IS REQUIRED

Permanent Magnet DC Gearmotors



Type 24A-3RD

Speed (rpm)	Rated Torque (lb-in.)	24V Rated Current (A)	130V Rated Current (A)	Motor HP	FF	Gear Ratio	Radial Load (lbs.)	Product Type ²	24V Model Number	130V Model Number
0.7	95	1.8	—	1/25	1.0	3600	160	24A2BEPM-3RD	N4336	—
0.7	95	—	0.3	1/29		3600		24A2BEPM-3RD	—	N4036
1.8	126	1.8	—	1/25		1400		24A2BEPM-3RD	N4314	—
1.8	126	—	0.3	1/29		1400		24A2BEPM-3RD	—	N4014
4.2	147	2.6	0.48	1/17		600		24A4BEPM-3RD	N4306	N4006
8.3	108	2.6	0.48	1/17	1.0	300	160	24A4BEPM-3RD	N4303	4003
12.5	92	2.6	0.48	1/17		200		24A4BEPM-3RD	N4302	N4002

Brushless DC Gearmotors



Type 22B-3RD

Speed (rpm)	Rated Torque (lb-in.)	24V Rated Current	130V Rated Current	Motor HP	Gear Ratio	Radial Load (lbs.)	Product Type ²	24V Model Number	130V Model Number
0.7	95	2.8	0.48	1/16	3600	160	22B2BEPL-3RD	N5336	N5036
1.8	126	2.8	0.48	1/16	1400		22B2BEPL-3RD	5314	N5014
4.2	147	2.8	0.48	1/16	600		22B2BEPL-3RD	N5306	N5006
8.3	144	5.9	0.89	1/8	300		22B4BEPL-3RD	N5303	N5003
12.5	140	5.9	0.89	1/8	200		22B4BEPL-3RD	N5302	N5002

Variable Speed—Pacesetter Inverter Duty AC Gearmotors

Type 48R-5H
Pacesetter

Fixed Speed Rating					Variable Speed (SOA) Ratings ¹					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 (b-in.)
Three-Phase, Inverter Duty, Non-synchronous (TEFC)												
35	296	3/4	2.7/1.3	48	3.3-48	10-90	constant	272	272	272	48R6BFPP-5H	N2280
47	285			36	4.4-63		constant	262	262	262		2281
94	256			18	8.9-127		constant	234	234	234		N2282
170	178			10	16-228		variable	152	210	180		N2283

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

Permanent Magnet DC Gearmotors



Type 42A-5H

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	
Single Shaft Gearmotor													
52	189	12	2.3	340	1/3	1.0	48	150	42A7BEPM-5H	N4829	N4729	N4599	4199
69	151			316			36			N4828	N4728	N4598	4198
139	87			186			18			N4827	N4727	N4596	N4196
250	52			104			10			N4826	N4726	N4594	4194
Double Shaft Gearmotor													
52	264	15	3.3	340	1/2	1.0	48	150*	42A7BEPM-5H	N4833	N4733	N4503	N4103
69	218			340			36	150*		N4832	N4732	N4502	4102
139	129			286			18	150*		N4831	N4731	N4501	4101
250	71			158			10	150*		4830	N4730	N4500	N4100

*only on one of the two shafts

- Unvented gearhousing for universal horizontal mounting
- Hardened helical output gearing
- Bronze worm gear for high shock load capability
- Hardened and ground worm hobbled on the motor shaft for high strength and long life
- Models with accessory shafts are ideal for mounting encoders or brakes
- See page 34 for capacitors and terminal boxes
- See pages 39 and 40 for reference dimensions

Variable Speed—Pacesetter Inverter Duty AC Gearmotors

Fixed Speed Rating						Variable Speed (SOA) Ratings¹						Product Type	230V Model No.	230/460V Model No.
Speed (rpm)	Torque (lb-in.)	HP	(230V) A	(230/460V) 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)														
6	380	3/8	1.9	—	280	0.6-8.2	10-90	constant	380	380	380	42R6BFPP-GB	N2236	—
14	290				120	1.5-19			290	290	290		2237	—
28	230				60	3.0-38			230	230	230		N2238	—
Hollow Shaft														
6	380	3/8	1.9	1.90/0.95	280	0.6-8.2	10-90	constant	380	380	380	42R6BFPP-GB/H	2336	N2636
14	290				120	1.5-19			290	290	290		N2337	N2637
28	230				60	3.0-38			230	230	230		N2338	N2639



Type 42R-GB and 42R-GB/H Hollow Shaft (Pacesetter)

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								CAPACITOR IS REQUIRED			
5.9	380	1/6	115	60	1	2.0	280	200	25.0/370	42R5BFCI-GB	5266
8.9	375						190				N5264
14	290						120				5262
21	278						80				N5261
28	209						60				5260
Three-phase, Non-synchronous											
5.9	380	1/4	230/460	60	3	1.2/0.6	280	200	—	42R5BFPP-GB	N5276
8.9	375						190				N5274
14	290						120				N5272
21	307						80				N5271
28	230						60				N5270
Permanent Split Capacitor, Non-synchronous Hollow Shaft								CAPACITOR IS REQUIRED			
5.9	380	1/6	115	60	1	2.0	280	200	25.0/370	42R5BFCI-GB/H	N8266
8.9	375						190				N8264
14	290						120				N8262



Type 42R-GB and 42R-GB/H Hollow Shaft

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	90/130V							24V		90/130V	
33A-GB 90/130V Models With Class F Temperature Rating													
6.2 / 8.9	380 / 380	—	1.4 / 1.8	600	1/8 / 1/4	1.4 / 1.0	280	200	33A5BEP-GB	—	—	—	6066
9.1 / 13	358 / 375			600			190						6064
14 / 21	251 / 290			464			120						6062
29 / 42	151 / 200			368			60						6060
90/130V Hollow Shaft													
6.2 / 8.9	380 / 380	—	1.4 / 1.8	600	1/8 / 1/4	1.4 / 1.0	280	200	33A5BEP-GB/H	—	—	—	7066
9.1 / 13	358 / 375			600			190						7064
14 / 21	251 / 290			464			120						7062
29 / 42	151 / 200			368			60						7060
42A-GB 130 V Models With Class B Temperature Rating													
8.9	380	8.8	1.8	600	1/4	1.0	280	200	42A5BEP-GB	N4866	N4766	N4466	4066
13	375			600			190			N4864	N4764	N4464	4064
21	290			464			120			N4862	N4762	N4462	4062
42	213			368			60			N4860	N4760	N4460	4060



Type 33A-GB



Type 33A-GB/H Hollow Shaft



Type 42A-GB

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.

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

Save Time, Space and Money with Hollow Shaft Gearmotors

Hollow shaft gearmotors connect directly to the driven load, reducing the overall space required by the gearmotor and eliminating expensive shaft couplings, mounting hardware, chains and sprockets. Hollow shaft flange mounting can also eliminate the need for a support bearing on one side of a conveyor roller.

"L" Brackets



Model No.	Description
A 0969	Kit for E, F and FX gearmotors (will not fit 48R-F or 48R-FX)
B 0970	Kit for WX gearmotors
C 0979	Kit for 34R and 34B motors
D 0980	Kit for 34R-Z gearmotors
E 0990	Kit for 24A motors
F 5968	Kit for 30R and 33A motors; 30R-D, 24A-D, 22B-D, 24A-Z, 33A-Z and 22B-Z gearmotors

AC | DC Motor and Gearmotor Accessory Kits



Model No.	Description
A 0967	Base plate kit for 3F gearmotors
B 0977	IP-44 protection kit for 33A gearmotors and motors
C 0978	IP-44 protection kit for 42A gearmotors and motors
D 0984	Die cast terminal box kit for 34R, 42R, 48R, and 33A, 42A motors and gearmotors (<i>DC: does not fit on 12 or 24VDC models</i>)
E 0985	Oversized die cast t-box kit. Fits capacitor for use with 42R-FX gearmotors. Also fits 42R, 48R, 33A and 42A motors/gearmotors.
— 1982	Die cast terminal box with terminal block for 30R motors and gearmotors
— 1984	Die cast terminal box kit with terminal block for 34R, 42R, 48R, 33A and 42A motors/gmtrs. <i>90/130, 130V and 180VDC models only.</i>
— 5982	Die cast terminal box for 30R motors and gearmotors
F 0992	Adaptor plate for mounting brakes or encoders for 33A/42A gearmotors/motors with accy. ready shaft extensions
G 0993	Adaptor plate for mounting brakes or encoders for 22B/34B gearmotors/motors with accy. ready shaft extensions
H 0995	3-hole adaptor plate for E, F, WX and FX gearmotors. Provides drop-in replacement for competitive gearmotors.
I 0996	Base kit for 34R motors and gearmotors
J 0960	Mounting Flange for 60P planetary gearmotors (U.S.)
K 0961	Mounting Flange for 60P planetary gearmotors (Metric)
L 0962	IP-66 Seal Kit for 60P planetary gearmotors (U.S.)
M 0963	IP-66 Seal Kit for 60P planetary gearmotors (Metric)

AC Capacitors



Box-Type Capacitor



Metal Can-Type Capacitor



A, B

Select a run capacitor based on the specifications found on pages 4-21 (29-33 for metric models) and in the tables below. The AC gearmotor or motor nameplate states the required capacitance of the run capacitor, but it is also critical to specify a capacitor that has the voltage ratings as shown in these tables. When using a run capacitor that is not supplied by Bodine Electric, please make sure the voltage rating is equal to or higher than the voltage rating specified on this page. Different motor sizes might require a different minimum voltage rating for the run capacitor.

Capacitors					
Part No.	µF /VAC	Part No.	µF /VAC	Part No.	µF /VAC
Box-Type Metalized Film Capacitor (Plastic Case)					
49400045 ¹	0.9/250	49426812 ¹	4.0/250	49401123 ¹	3.75/370
49400046 ¹	1.0/250	49401015	5.0/250	49401068 ¹	5.0/400
49400047 ¹	1.2/250	49401154 ^{1,3}	7.5/370	49401107 ¹	12.5/370
49400048 ¹	1.3/250	49401054	10.0/250	49401075 ¹	15.0/350
49400050 ¹	1.5/250	49401115 ¹	6.0/450	49401057	20.0/350
49400051 ¹	1.6/250	49401106	9.0/250	Round Metal Can-Type Capacitor	
49401049	0.4/440	49401006	12.5/250	49401124	25.0/370
49400091	1.3/440	49401156 ³	15.0/250	49401145 ²	45.0/250
49401047	2.3/250	49401113 ¹	20.0/250	49401147 ²	40.0/250
		49401112 ¹	27.5/250	49401148 ²	10.0/450
		49401090 ¹	30.0/250		

¹ Capacitor fits inside terminal box kit model 0984. ² Capacitor fits inside oversized terminal box model number 0985. ³ New capacitor part number effective 06/2016.

Capacitor Mounting Clamps

Model No.	Description
A 54701013	Mounting clamp for round, metal can type capacitor model 49401124
B 54701029	Mounting clamp for round, metal can type capacitors: models 49401145, 49401147, and 49401148

For mounting details and dimensions, visit www.bodine-electric.com

Shaft kits for type 3F/H, 5L/H and GB/H gearmotors



Cover kits type 3F/H (left), types 5L/H and GB/H (right)



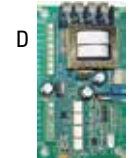
Flange mount kits type 3F/H (left), types 5L/H and GB/H (right)

Item	Model No.	Description
—	0910	Shaft kit for type 3F/H gearmotors, 1/2 inch diameter, single shaft
—	0920	Shaft kit for type 3F/H gearmotors, 1/2 inch diameter, double shaft
—	0912	Shaft kit for type 5L/H gearmotors, 5/8 inch diameter, single shaft
—	0922	Shaft kit for type 5L/H gearmotors, 5/8 inch diameter, double shaft
—	0917	Shaft kit for type GB/H gearmotors, 3/4 inch diameter, single shaft
—	0927	Shaft kit for type GB/H gearmotors, 3/4 inch diameter, double shaft
—	0950	Cover kit for type 3F/H gearmotors
—	0951	Cover kit for type 5L/H and GB/H gearmotors
—	0955	Flange mount kit for 3F/H gearmotors
—	0956	Flange mount kit for 5L/H and GB/H gearmotors

Control Accessories

BLDC
PMDC

Item	Model No.	Description
—	0888	Analog Interface Board for use with model 0810, 0830, and 0850 controls. Allows control to accept a variable voltage or current signal from user's host controller to automatically control motor speed. Inputs are optically isolated.
—	0890	Electronic Direction and Braking Board, F-B-R Kit , for use with model 0810, 0830, and 0850 controls. Allows user to change motor direction and to dynamically brake motor to a quick stop. Inputs are not optically isolated. This kit includes one F-B-R board, one cable and connector, mounting hardware, and two additional braking resistors.
—	0893	Local/Remote Switch for use with model 0810, 0830, and 0850 controls when used with accessory model 0888. Allows user to switch between automatic and manual operation.
—	0895	Switch Sealing Kit upgrades NEMA-12 brushless DC and PMDC enclosed controls to IP-44 rating.
A	3981	Cable Kit for stock 34B/FV INTEGRAMotors. Length: six feet (3 cables: power, logic and encoder).
B	3982	Extension Cable for model 3910, 3911, 3921 and 3912 controls. Extends the cable between the motor and control by six feet. Both ends are equipped with circular connections for easy connection between model 3983 cable assembly or encased control and the motor. Length: six feet.
C	3983	Connection Cable Assembly for connecting model 3910, 3921 and 3911 chassis controls to stock 130 V motors. One end of the cable is equipped with a circular connector, the other end is equipped with quick disconnects for phase leads, and a molded connector for the commutation leads. Length: 6 feet.
D	3984	Analog Interface And Isolation Module for model 3910, 3911, 3921 and 3912 controls. Provides Analog interface and isolates controls from system controller input signals which may be at different potentials.
—	43300260	Speed Potentiometer Kit for use with FPM controls. Contains 10k Ohm potentiometer, hardware, wire and connector for manually regulating motor speed.
—	43300270	Fuse and Speed Potentiometer Kit for use with model 3910 control. Contains potentiometer for manually regulating motor speed and various fuses to cover the range of motors and gearmotors which can be used with the control.



Metric Accessories



Metric "L" Brackets

Item	Model No.	Description
A	0990	Metric Kit for 24A
B	1968	Metric Kit for 33A motors, and type D and Z gearmotors
C	1970	Metric Kit for type W gearmotors
D	1969	Metric Kit for E, F and FX gearmotors (will not fit 48R-F or 48R-FX)
—	—	no "L" bracket kits are available for 34R and 34R-Z gearmotors

A



B

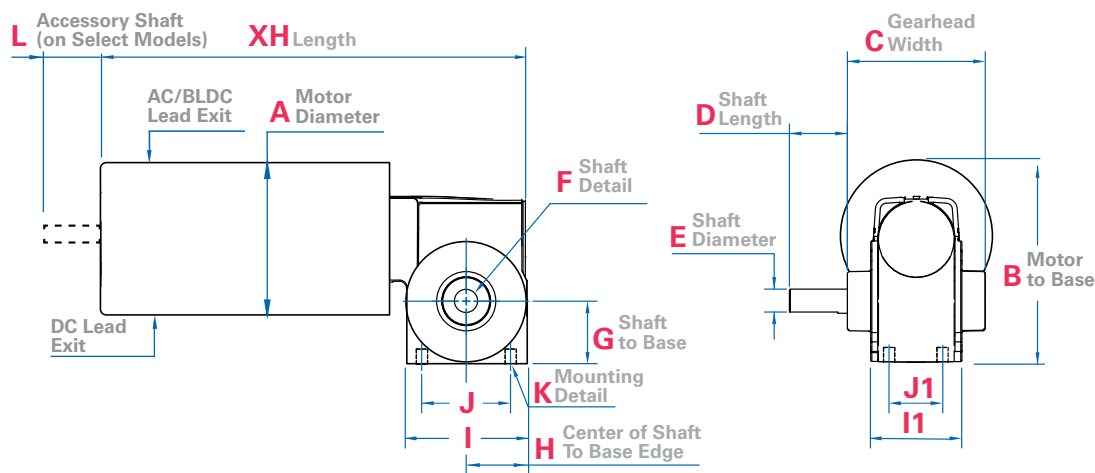


Metric Motor and Gearmotor Kits

Item	Model No.	Description
A	1982	Metric die cast terminal box kit for 30R motors and gearmotors
A	1984	Metric die cast terminal kit with terminal block for 33A, 34R, 42A and 42R motors and gearmotors. For 90/130, 130V and 180VDC models only.
B	0991	Metric die cast base kit for 42A motors and gearmotors
—	0992	Metric adaptor plate for 33A and 42A motors and gearmotors

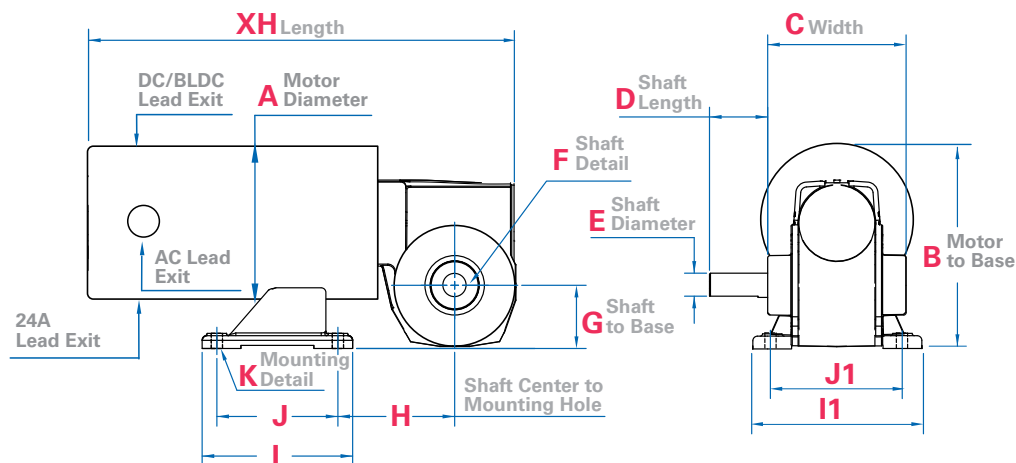
Right Angle Gearmotor Dimensions

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



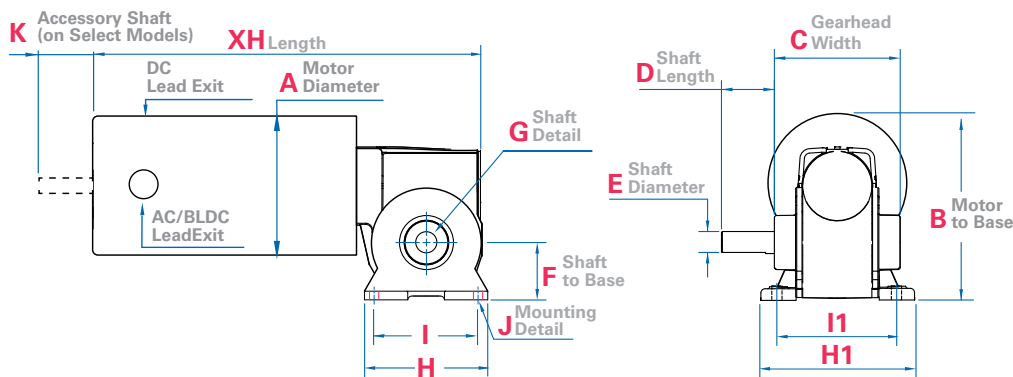
Gearhead Type 3N/3F, pages 12-13 (Mounts from Gearhead)

	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



Gearhead Type 3F, 5R/5L, pages 12-13 (Mounts from Motor)

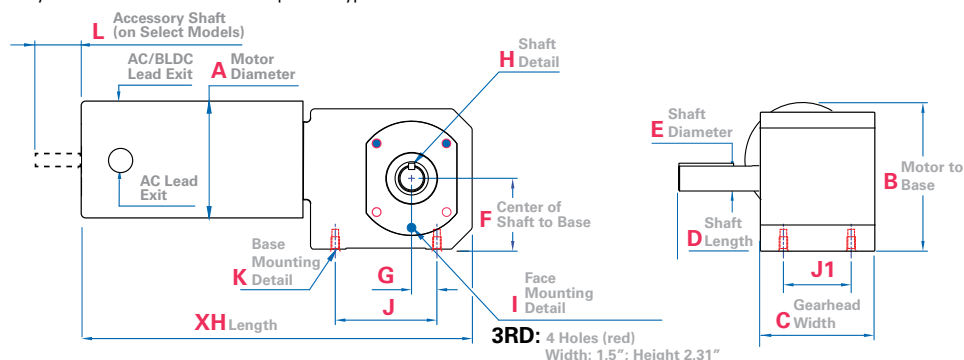
	Weight (lbs.)	XH Length	A Dia- meter	B Motor to Base	C Width	D Shaft Length	E Shaft Diameter	F Shaft Detail	G Shaft to Base	H Shaft Center To Mounting Hole	I Base Length	I1 Base Width	J Mounting Hole Length	J1 Mounting Hole Width	K Mounting Detail	Cord/ Lead Length (in.)
Type 3F Gearmotor																
24A4-3F	5.3	7.422	2.42	3.57	2.871	1.00	.500	Flat	1.28	3.14	2.50	3.62	1.25	2.94	[4] ø.28	24
Type 5R Gearmotor																
34R4-5R	11.5	9.206	4.02	5.24	3.568	1.50	.625	Key/ Flat	1.63	3.01	3.88	4.38	3.12	3.38	[4] ø.29	12
33A3-5R	9.0	8.651	3.39	4.92												24
Type 5L Gearmotor																
42R4-5L	13.5	9.54	4.73	5.57	3.568	1.50	.625	Key/ Flat	1.56	2.856	4.38	5.02	3.62	4.00	[4] ø.30	12
42A4-5L	14.1	9.635	4.26	5.54												24



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											No	12 or 24
34B-5N	34B3-5N	9.0	7.723	4.02	5.26											No	
	34B4-5N	10.0	8.223													Yes	
	34B6-5N	12.0	9.233													No	
Type 5F Gearmotor																	
34R-5F	34R6-5F	12.0	10.206	4.02	5.28	3.568	1.50	.625	1.67	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											No	24
	33A5F-5F	9.9	9.701													Yes	
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



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

Gearhead Type 3RD, GB, pages 16-17

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																
24A-3RD	24A2	9.0	8.07	2.42	4.147												24		
	24A4	10.5	8.82																
22B-3RD	22B2	6.5	8.085	2.378	4.377													12 or 24	
	22B4	6.5	9.045																
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																
33A-GB	33A5	13.6	11.067	3.39	4.38		2.38	.750							Yes	12			
	33A7	14.9	12.268				2.362	.748									No	24	
42A-GB	42A5	18.0	11.554	4.26	4.82		2.38	.750											[4]1/4 -20 UNF-2B .45 Deep Min.

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

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