



- *FX and F-type*: hardened helical gearing for quietness and high output to size ratio
- Unvented gearhousing for universal horizontal mounting
- Models with accessory shafts are ideal for mounting encoders or brakes
- See page 34 for capacitors and accessories
- See page 36 for reference dimensions

Variable Speed—Pacesetter Inverter Duty AC Gearmotors



Type 34R-FX Pacesetter



Type 42R-FX Pacesetter

Fixed Speed Rating						Variable Speed (SOA) Ratings ¹						Product Type	230V Model No.	230/460V Model No.	
Speed (rpm)	Torque (lb-in.)	HP	(230V) Amps	(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.)				
34R-FX Pacesetter Gearmotor															
Three-Phase, Inverter Duty, Non-synchronous (TEFC)															
5.7	350					300	0.4-7.3		constant	350	350	350	34R4BFPP-FX4	N2256	2856
9.4	350					180	0.7-12		constant	350	350	350	34R4BFPP-FX4	2250	2850
19	350					90	1.3-24		constant	350	350	350	34R4BFPP-FX4	2251	2851
28	321	1/6	1.0	1.0/0.5		60	2.0-36	10-90	variable	256	350	350	34R4BFPP-FX3	2252	2852
57	160					30	4.0-73		variable	128	255	221	34R4BFPP-FX3	2253	2853
170	53					10	12-218		variable	43	85	74	34R4BFPP-FX2	N2254	2854
340	28					5	24-436		variable	22	44	38	34R4BFPP-FX1	N2255	2855
42R-FX Pacesetter Gearmotor															
Three-Phase, Inverter Duty, Non-synchronous (TEFC)															
57	270					30	5.9-77		constant	270	270	270	42R6BFPP-FX3	2260	2860
85	240					20	8.8-115		variable	187	240	240	42R6BFPP-FX3	2261	2861
113	184	3/8	1.9	1.9/0.95		15	12-153	10-90	variable	140	186	186	42R6BFPP-FX2	N2264	2864
170	123					10	18-229		variable	93	124	124	42R6BFPP-FX2	2262	2862
340	58					5	35-459		variable	48	58	58	42R6BFPP-FX1	2263	2863

Fixed Speed—AC Gearmotors



Type 42R-FX



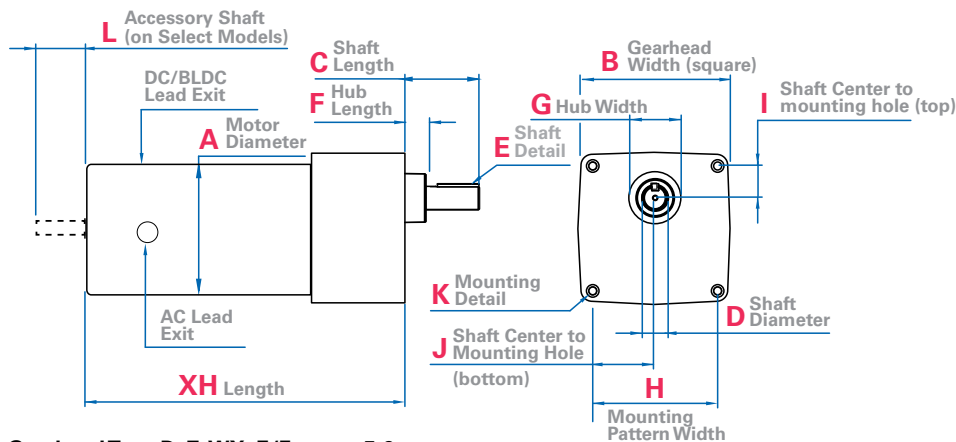
Type 48R-FX

Speed (rpm)	Rated Torque (lb-in.)	Motor HP	V	Hz	Ph	Amps	Gear Ratio	Radial Load (lbs.)	Capacitor (µF/VAC)	Product Type	Model Number
42R-FX Fixed Speed AC Gearmotors											
Permanent Split Capacitor, Three-Wire Reversible, Non-Synchronous										CAPACITOR IS REQUIRED	
5.7	350						300	200		42R6BFCSI-FX4	5671
9.4	350						180	200		42R6BFCSI-FX4	5669
14	350						120	200		42R6BFCSI-FX4	5668
28	350						60	200		42R6BFCSI-FX3	5685
57	243	1/4	115	60	1	2.9	30	300	45.0/250	42R6BFCSI-FX3	5683
85	162						20	300		42R6BFCSI-FX3	5681
115	122						15	300		42R6BFCSI-FX2	5682
170	81						10	300		42R6BFCSI-FX2	5680
340	42						5	60		42R6BFCSI-FX1	5679
Split Phase (with centrifugal switch), Non-synchronous											
5.7	350						300	200	—	42R5BFCSI-FX4	5639
9.4	350						180	200	—	42R5BFCSI-FX4	5637
14	350						120	200	—	42R5BFCSI-FX4	5636
19	350						90	200	—	42R5BFCSI-FX4	5635
28	321						60	200	—	42R5BFCSI-FX3	0655
42	214	1/6	115	60	1	3.6	40	200	—	42R5BFCSI-FX3	0654
57	160						30	300	—	42R5BFCSI-FX3	0653
85	107						20	300	—	42R5BFCSI-FX3	0652
115	80						15	300	—	42R5BFCSI-FX2	0651
170	53						10	300	—	42R5BFCSI-FX2	0650
340	28						5	60	—	42R5BFCSI-FX1	0649
48R-FX Fixed Speed AC Gearmotor											
Split Phase (with centrifugal switch), Non-synchronous											
57	270						30	300	—	48R6BFCSI-FX3	0664
85	218						20	300	—	48R6BFCSI-FX3	0663
170	109	1/3	115/230	60	1	4.8/2.4	10	300	—	48R6BFCSI-FX2	0662
340	56						5	60	—	48R6BFCSI-FX1	0661

Reference Drawings and Dimensions

Parallel 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 D, Z, WX, E/F, pages 5-9

	Product Type	Wt. (lbs.)	XH Length	A Diameter (Height)	B Width (square)	C Shaft Length	D Shaft Diameter	E Shaft Detail	F Hub Length	G Hub Width	H Mounting Pattern Width	I Shaft Center to Mounting Hole (top)	J Shaft Center to Mounting Hole (bottom)	K Mounting Detail	L Acc'y Shaft	Cord/Lead Length (in.)												
Type D Gearmotor																												
24A-D	24A2-D	4.0	5.887	2.42	3.42	1.56	.500	Flat	.554	1.125	2.652	.582	1.326	[4]10-32 UNF-2B x .38 deep on a 3.75 B.C.	Yes	24												
	24A4-D	4.5	6.637												Yes	24												
22B-D	22B2-D	3.75	5.522	2.378											Yes	12 or 24												
22B-D INTEGRA	22B2-D	5.4	6.631	2.93											No	None												
Type Z Gearmotor																												
34R-Z	34R4-Z4/3	9.3	8.328	4.02	3.40	1.56	.500	Flat/Key	.29	1.125	2.652	.582	1.326	[4]10-32 UNF-2B x .38 deep on a 3.75 B.C.	No	12												
	34R6-Z4/3		8.345																									
	34R4-Z2		7.428																									
	34R6-Z2		7.445																									
24A-Z	24A4-Z2	5.0	6.890	2.42	3.42	1.56	.500	Flat/Key	.29	1.125	2.652	.582	1.326	[4]10-32 UNF-2B x .38 deep on a 3.75 B.C.	Yes	24												
	24A4-Z3/Z4		7.790																									
33A-Z	33A3-Z2	5.8	6.895	3.39													3.42	1.56	.500	Flat/Key	.29	1.125	2.652	.582	1.326	[4]10-32 UNF-2B x .46 deep on a 3.75 B.C.	No	None
	33A3-Z3		7.795																									
22B-Z	22B3-Z2	5.25	6.326	2.378	3.42	1.56	.500	Flat/Key	.29	1.125	2.652	.582	1.326	[4]10-32 UNF-2B x .46 deep on a 3.75 B.C.	Yes	12 or 24												
	22B2-Z4	4.75	6.746																									
	22B3-Z4	5.25	7.226																									
22B-Z INTEGRA	22B3-Z2	5.3	7.435	2.93											3.42		1.56	.500	Flat/Key	.29	1.125	2.652	.582	1.326	[4]10-32 UNF-2B x .46 deep on a 3.75 B.C.	Yes	12 or 24	
	22B3-Z3	5.3	8.335																									
	22B2-Z4	4.8	7.885																									
Type WX Gearmotor																												
34R-WX	34R6-WX	12.0	8.956	4.02	4.06	2.0	.625	Key	.56	1.31	3.375	.863	1.688	[4]1/4 -28 UNF-2B x .50 deep on a 4.78 B.C.	No	12												
33A-WX	33A5-WX	9.7	8.665	3.385											Yes	24												
34B-WX	34B3-WX	4.8	6.473	4.02											Yes	12 or 24												
Type E/F & FX Gearmotor																												
34R-FX	34R4-FX	11.0	8.112	4.02	4.64	2.0	.750	Key	.37	1.536	3.625	.913	1.813	[4]1/4 -28 UNF-2B x .50 deep on a 5.13 B.C.	No	12												
42R-FX	42R5-FX	14.5	9.128	4.73																								
	42R6-FX	16.5	9.565	4.73																								
48R-FX	48R6-FX	26.0	10.487	5.90											4.64	2.0	.750	Key	.37	1.536	3.625	.913	1.813	[4]1/4 -28 UNF-2B x .50 deep on a 5.13 B.C.	No	24		
42A-FX	42A5-FX	14.9	9.323	4.26																								
	34B3-E	11.0	6.629	4.02																					4.64	2.0	.750	Key
34B-E/F	34B4-E/F	12.0	7.129																									
	34B6-F	14.0	8.129	4.02	Yes	12 or 24																						

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