



AC Inverter Duty, Three-Phase Gearmotors

Bodine type 34R-Z, 34R-FX, 42R-FX, and 42R-5L/H inverter duty, three-phase gearmotors deliver maintenance-free performance. Designed to drive demanding applications like conveyor systems, food processing equipment, medical equipment and factory automation. Right angle, hollow-and parallel-shaft models rated from 1/6 and 3/8HP, with speeds from 5.7-340 rpm, and up to 350 lb-in torque.

- Maintenance free, variable-speed performance
- Inverter duty winding is compatible with a wide range of inverter (variable frequency) drives.
- Dual Voltage 230/460 VAC/60Hz, three-phase, models available

Typical Applications

These variable speed gearmotors are frequently used to drive conveyors, pumps, packaging and other industrial automation equipment.



Type 34R-Z



Type 42R-5L/H



Type 42R-FX

Fixed Speed Rating					Variable Speed (SOA) Ratings¹						Product Type	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, 230 VAC (TENV)												(230 VAC)
34R-Z Parallel Shaft Inverter-Duty Gearmotor												
9	120	1/6	0.73	180:1	0.9-13	10-90	constant	120	120	120	34R6BEPP-Z4	2220
19	120			90:1	1.8-26			120	120	120	34R6BEPP-Z4	2222
28	120			60:1	2.8-39			120	120	120	34R6BEPP-Z3	2224
57	96			30:1	5.5-78			96	96	96	34R6BEPP-Z3	2226
94	39			18:1	16-143			39	39	39	34R6BEPP-Z2	2227
283	21			6:1	28-391			21	21	21	34R6BEPP-Z2	2228

Fixed Speed Rating					Variable Speed (SOA) Ratings¹						Product Type	230V	230/460V	
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)	Model Number	Model Number
Three-Phase, Inverter Duty, Non-synchronous (TEFC)														
34R-FX Parallel Shaft Inverter-Duty Gearmotor														
5.7	350	1/6	1.0	1.0/0.5	300:1	0.4-7.3	10-90	constant	350	350	350	34R4BFPP-FX4	2256	2856
9.4	350				180:1	0.7-12		constant	350	350	350	34R4BFPP-FX4	2250	2850
19	350				90:1	1.3-24		constant	350	350	350	34R4BFPP-FX4	2251	2851
28	321				60:1	2.0-36		variable	256	350	350	34R4BFPP-FX3	2252	2852
57	160				30:1	4.0-73		variable	128	255	221	34R4BFPP-FX3	2253	2853
170	53				10:1	12-218		variable	43	85	74	34R4BFPP-FX2	2254	2854
340	28				5:1	24-436		variable	22	44	38	34R4BFPP-FX1	2255	2855
42R-FX Parallel Shaft Inverter-Duty Gearmotor														
57	270	3/8	1.9	1.9/0.95	30:1	5.9-77	10-90	constant	270	270	270	42R6BFPP-FX3	2260	2860
85	240				2:1	8.8-115		variable	187	240	240	42R6BFPP-FX3	2261	2861
113	184				15:1	12-153		variable	140	186	186	42R6BFPP-FX2	2264	2864
170	123				10:1	18-229		variable	93	124	124	42R6BFPP-FX2	2262	2862
340	58				5:1	35-459		variable	48	58	58	42R6BFPP-FX1	2263	2863

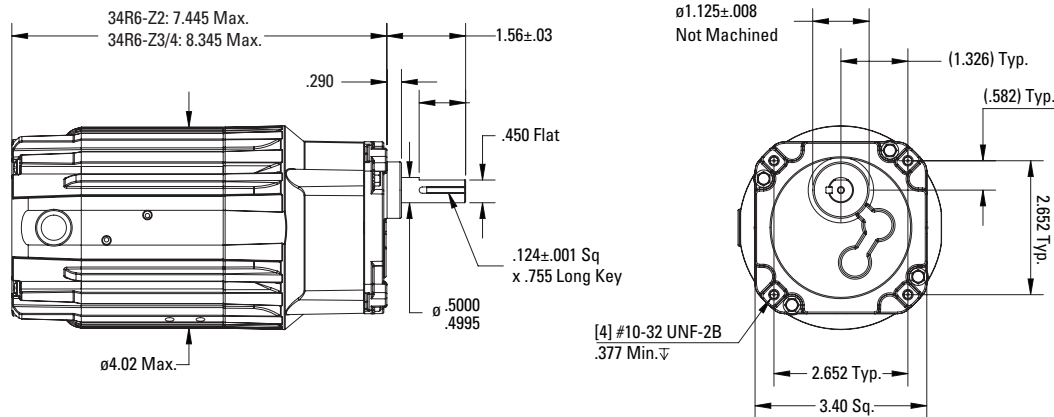
42R-5L/H Right-Angle, Hollow Shaft, Inverter-Duty Gearmotor													(230V)	(230/460V)
23	121	3/8	1.90	1.9/0.95	75:1	2.4-31	10-90	variable	121	121	116	42R6BFPP-5L/H	2470	2670
43	113				40:1	4.4-57		constant	109	109	109	42R6BFPP-5L/H	2471	2671
57	109				30:1	5.9-77		constant	104	104	104	42R6BFPP-5L/H	2475	2675
85	103				20:1	8.9-115		constant	98	98	98	42R6BFPP-5L/H	2472	2676
170	101				10:1	18-229		variable	66	105	101	42R6BFPP-5L/H	2473	2673
340	54				5:1	35-458		variable	38	68	59	42R6BFPP-5L/H	2474	2674

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



34R6-Z 2/3/4 Parallel Shaft Gearmotor

Dimensions (inches)



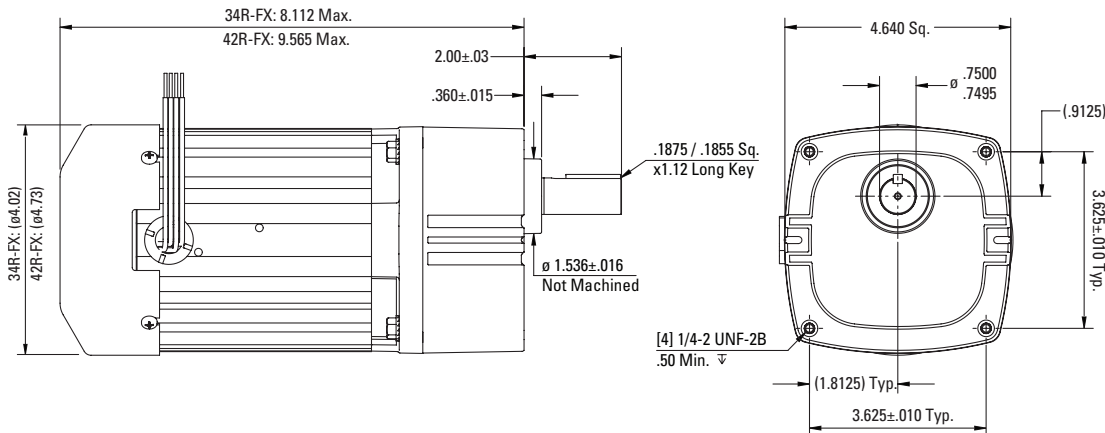
L-Bracket Kit (Model 0980)

For base or side-wall mount



34R4-FX and 42R6-FX Parallel Shaft Gearmotors

Dimensions (inches)



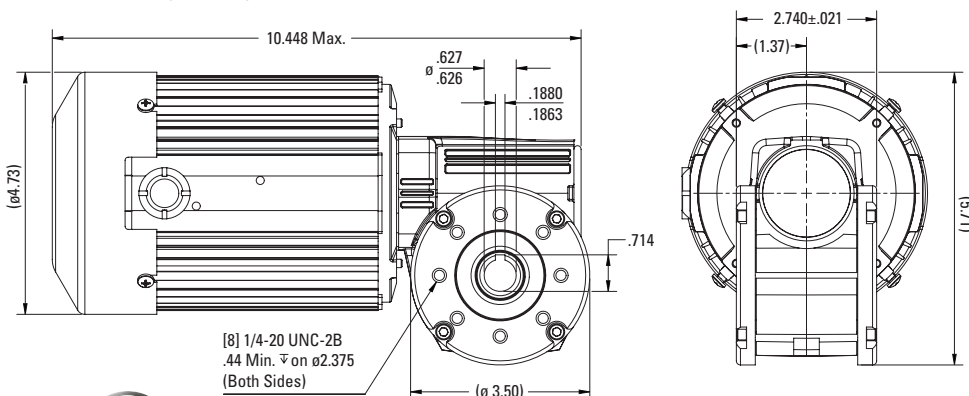
L-Bracket Kit (Model 0969)

For base or side-wall mount



42R6-5L/H Hollow Shaft Right-Angle Gearmotor

Dimensions (inches)



Shaft Kit (Model 0912)

5/8-inch, single shaft



Shaft Kit (Model 0928)

5/8 inch to 3/4-inch diameter,
single shaft



Shaft Kit (Model 0922)

5/8-inch, double shaft

