



AC Inverter-Duty Explosion-Proof Gearmotors and Motors

Rated Class I/Division 1 (Groups C and D) for OEM Applications in Hazardous Locations

These new 34R6BXPP-FX gearmotors and 34R6BXPP motors, meet NEC Class I, Division 1 requirements for use in environments where ignitable concentrations of flammable gases, vapors or liquids are likely to exist under normal operating conditions.

Class I, Division 1 Construction

- UL Listed to be suitable for environments where ignitable concentrations of flammable gases, vapors or liquids are likely to exist under normal operating conditions
- Suitable junction boxes are available from various third-party vendors, and should be sized per NEC 314.16, for use in CI/D1 applications
- Rated for +40°C ambient. Environmental protection: IP-66

FX Gearhead Features

- All-steel hardened helical gears; gearhead lubricated for life
- Gearing meets or exceeds AGMA 9 standards for quiet operation
- Synthetic lubricant improves performance, and allows these gearmotors to operate in a wide temperature range

Type 34R6-FX CI/D1
Inverter-duty AC 3-phase parallel shaft gearmotor



Type 34R6 CI/D1
Inverter-duty motor



Typical Applications

These gearmotors are designed to drive applications such as chemical injection pumps for the oil and gas industry, or any other application that requires zero-maintenance AC gearmotors or motors that meet Class I, Division 1 (Groups C and D), or that require IP-66 protection.

Type 34R6-FX AC CI/D1 Explosion-Proof Variable Speed Gearmotors

(230VAC or 460VAC Inverter-duty, 3-phase, 60 Hz models; Groups C and D; Temperature Codes T3C and T4A)

Fixed Speed Rating						Variable Speed (SOA Ratings¹)						Product Type	Model Number	
Speed (rpm)	Rated Torque (lb-in)	Power (HP)	Rated Current (Amps)		Gear Ratio	Speed Range (rpm)	Frequency Range (Hz)	Torque Type	Torque (lb-in)					
			230V	460V					@10 Hz	@60 Hz	@90 Hz			
230VAC or 460VAC, Inverter-duty TENV, IP-66														
5.3	350	1/4	0.98	0.49	300:1	0.7-7.9	10-90	Constant	350	350	350	34R6BXPP-FX4	3229	3274
8.9	350	1/4	0.98	0.49	180:1	1.2-13	10-90	Constant	350	350	350	34R6BXPP-FX4	3228	3273
13	350	1/4	0.98	0.49	120:1	1.8-20	10-90	Constant	350	350	350	34R6BXPP-FX4	3227	3272
27	350	1/4	0.98	0.49	60:1	3.6-40	10-90	Variable	350	350	321	34R6BXPP-FX3	3226	3271
40	265	1/4	0.98	0.49	40:1	5.4-59	10-90	Variable	257	265	214	34R6BXPP-FX3	3225	3270
53	267	1/4	0.98	0.49	30:1	7.1-79	10-90	Variable	192	267	160	34R6BXPP-FX3	3224	3269
80	178	1/4	0.98	0.49	20:1	11-119	10-90	Variable	128	178	107	34R6BXPP-FX3	3223	3268
107	133	1/4	0.98	0.49	15:1	14-158	10-90	Variable	96	133	80	34R6BXPP-FX2	3222	3267
160	89	1/4	0.98	0.49	10:1	21-237	10-90	Variable	64	89	53	34R6BXPP-FX2	3221	3266
320	46	1/4	0.98	0.49	5:1	43-474	10-90	Variable	33	46	28	34R6BXPP-FX1	3220	3265

Type 34R6 CI/D1 Explosion-Proof Motors

(115VAC and 230VAC, Permanent Split Capacitor Models also available, 42 Watts, 33 oz-in; Groups C and D; Temperature Codes T3C and T4A)

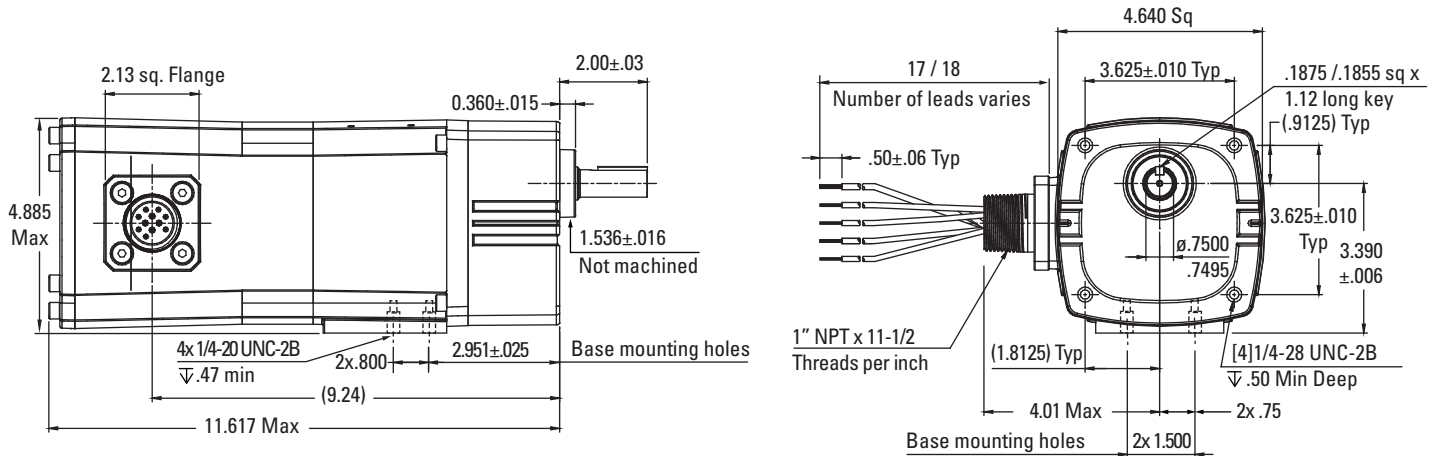
Fixed Speed Rating					Variable Speed (SOA Ratings ¹)						Product Type	Model Number	
Speed (rpm)	Rated Torque (oz-in)	Power (HP)	Rated Current (Amps)		Speed Range (rpm)	Frequency Range (Hz)	Torque Type	Torque (oz-in)				230VAC	460VAC
			230VAC	460VAC				@10 Hz	@60 Hz	@90 Hz			
230VAC or 460VAC, Inverter-duty TENV, IP-66													
1600	158	1/4	0.98	0.49	214-3259	10-120	variable	114	158	55	34R6BXPP	3263	3264

1. SOA: Contact the factory for detailed safe operating area (SOA) performance data.



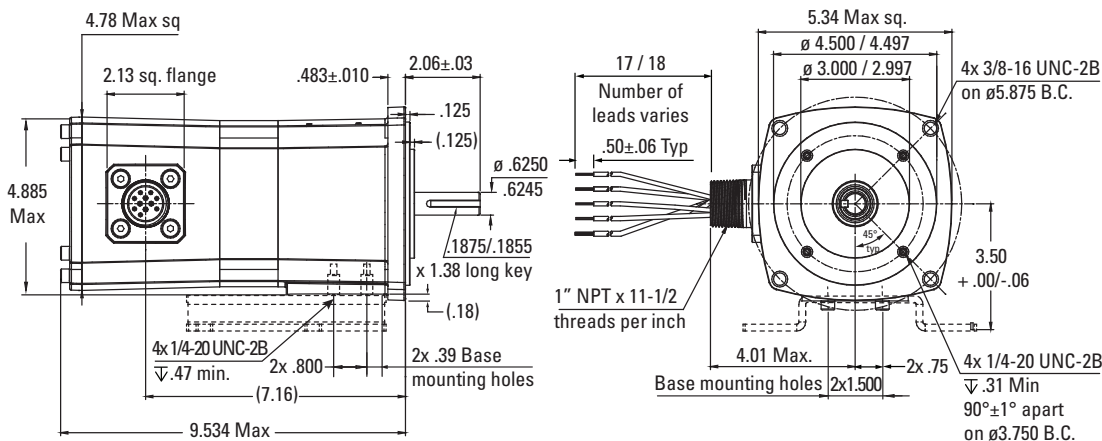
34R6-FX Class I, Division 1 AC 3-Phase Explosion-Proof Gearmotors

Dimensions (inches)



34R6 Class I, Division 1 AC 3-Phase Explosion-Proof Motors

Dimensions (inches)



Accessory Options



Model 0931 base mount kit for Class I, Division 1 motors and gearmotors

Type 34R6 CI/D1 motors meet NEMA-56C specifications when the optional base mount kit 0931 is installed.

Drawings are for reference only. Please visit our website to download or view the latest revision of these CAD drawings.



Bodine offers over 1,400 standard gearmotors, motors and system-matched speed controls.

Bodine offers the widest selection of variable-speed AC, permanent magnet DC and brushless DC fractional horsepower gearmotors and motors in the industry. For complete specifications, 2D/3D CAD drawings, or to order online, visit bodine-electric.com.