



# Brushless DC Explosion-Proof Gearmotors and Motors

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

These new 34B6BX-FX gearmotors and 34B6BX 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. The new 34B-FX gearmotors and motors feature a new, stronger 8-pole winding, and are designed for BLDC controls with 120° commutation.

## 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 34B6-FX CI/D1  
Brushless DC  
parallel shaft gearmotor



Type 34B6 CI/D1  
Brushless DC motor  
(NEMA-56C with Base Kit 0931)

## 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 BLDC gearmotors or motors that meet Class I, Division 1 (Groups C and D) or that require IP-66 protection.

### Type 34B6-FX CI/D1 Explosion-Proof Gearmotor (8-Pole, 120° commutation; Groups C and D; Temperature Codes T3C and T4A)

Speed (rpm)		Torque (lb-in)		Power (HP)		Rated Current (Amps)		Gear Ratio	Radial Load (lbs)	Product Type	Model Number	
12V	24V	12V	24V	12V	24V	12V	24V				12V	24V
12V or 24 VDC, TENV, IP-66												
7.3	9.3	350	350	0.47 <sup>1</sup>	0.66 <sup>1</sup>	38	25	300:1	274	34B6BXBL-FX4	3209	3219
12	16	350	350	0.47	0.66	38	25	180:1	274	34B6BXBL-FX4	3208	3218
18	23	350	350	0.47	0.66	38	25	120:1	274	34B6BXBL-FX4	3207	3217
37	47	350	350	0.47	0.66	38	25	60:1	274	34B6BXBL-FX3	3206	3216
55	70	265	265	0.47	0.66	38	25	40:1	291	34B6BXBL-FX3	3205	3215
73	93	270	270	0.47	0.66	38	25	30:1	300	34B6BXBL-FX3	3204	3214
110	140	240	240	0.47	0.66	38	25	20:1	300	34B6BXBL-FX3	3203	3213
147	187	181	186	0.47	0.66	38	25	15:1	300	34B6BXBL-FX2	3202	3212
220	280	121	124	0.47	0.66	38	25	10:1	300	34B6BXBL-FX2	3201	3211
440	560	58	58	0.47	0.66	38	25	5:1	56	34B6BXBL-FX1	3200	3210

### Type 34B Explosion-Proof Brushless DC Motor (Special order 130 VDC or 260 VDC models, 4- or 8-pole also available) IP-66

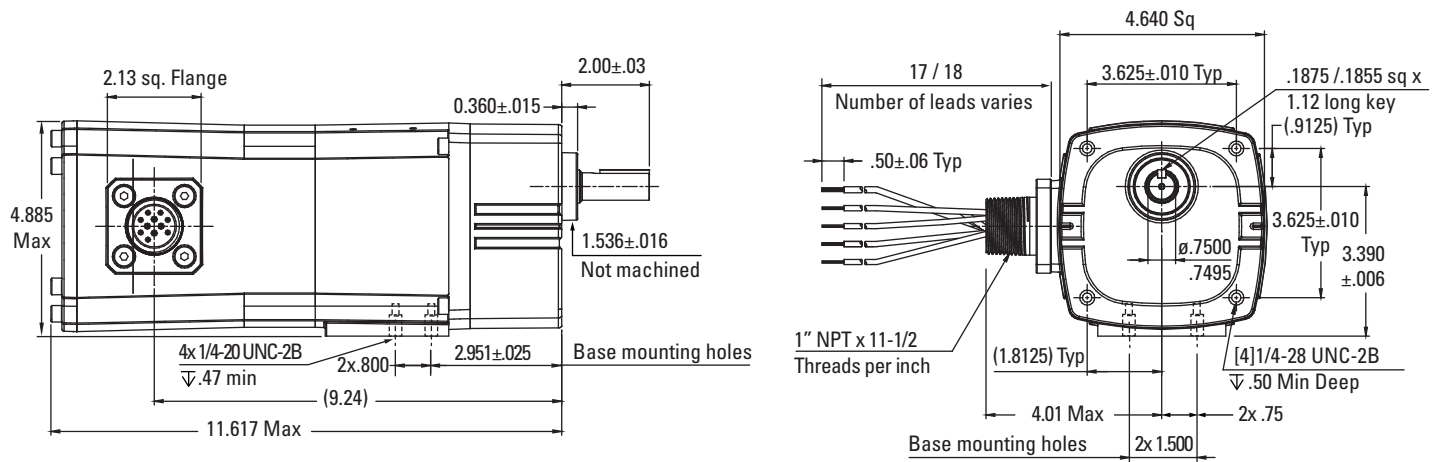
Speed (rpm)		Rated Torque (oz-in)		Power (HP)			Rated Current (Amps)		Radial Load (lbs)	Product Type	Model Number	
12V	24V	12V	24V	12V (8-pole)	24V (8-pole)	260 VDC	12V	24V			12V	24V
2200	2800	215	237	0.47	0.66	0.5	38	25	42	34B6BXBL	3261	3262

1. 34B-FX Power: 0.47HP = 351 Watts, and 0.66HP = 492 Watts.



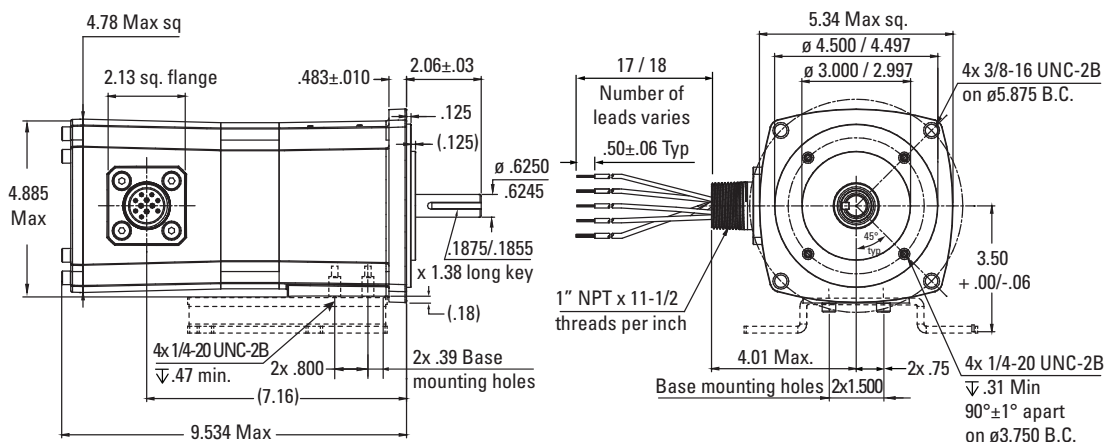
## 34B6-FX Class I, Division 1 Brushless DC Explosion-Proof Gearmotors

Dimensions (inches)



## 34B6 Class I, Division 1 Brushless DC Explosion-Proof Motors

Dimensions (inches)



## Accessory Options



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

Type 34B6 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](http://bodine-electric.com).