

# Avtron Brushless Tachometer Upgrade Package

Replaces GE 5BC42/46/66 Analog Tachogenerators,  
NEMA 56C Face & Foot Mount



## Easy, Maintenance-Free Upgrade

- Direct Replacement for All 5BC42, 5BC46 & 5BC66 Tachogenerators
- Severe Mill Duty
- Fits Existing Bolt Patterns
- No Drive Configuration Changes Required
- No Brushes, No Maintenance
- Better Speed Regulation
- Self-Diagnostic LED and Alarm Output
- -40C\* to +120C\* Operation
- 1 Year No-Hassle Warranty

**THE** Avtron Brushless Upgrade Package replaces old, obsolete GE 5BC42, 5BC46 & 5BC66 analog tachogenerator models. It fits existing bolt patterns: both foot mount and existing motor flanges (NEMA 56C style). Other Avtron models (AV850) are available to eliminate moving, wearing parts and motor flanges completely!

Using the Avtron update package, you will improve the output and speed con-

trol accuracy of your machine, while eliminating costly downtime.

Unlike low-quality converters, the Avtron solution is extremely linear and accurate, with no "gearshift" behaviors that can damage your product quality. The output is repeatable to 0.002%!

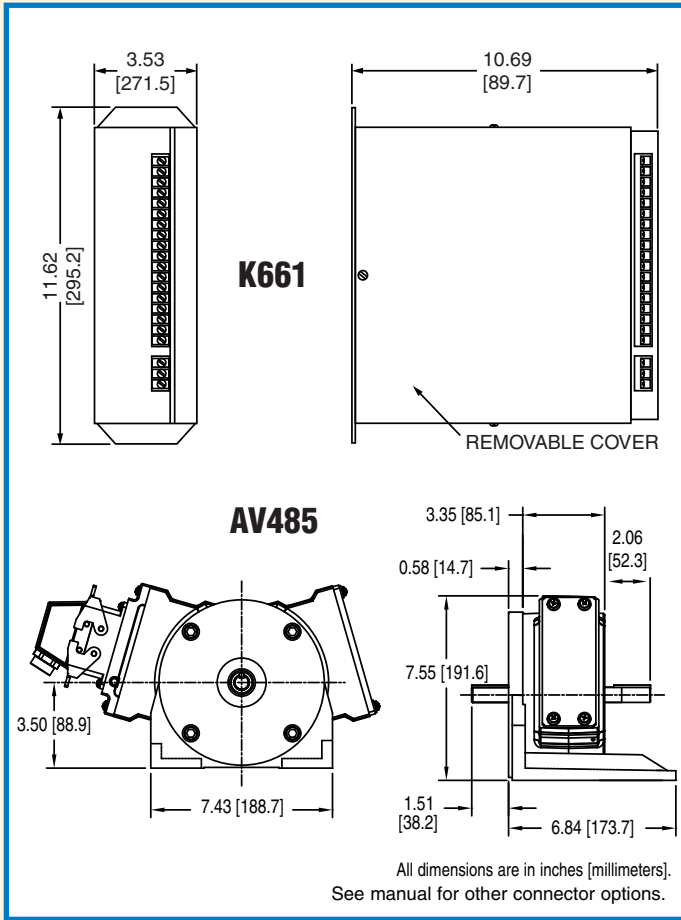
The brushless upgrade package is simple to install: mount the K661 converter in your drive cabinet, route a

new encoder-to-drive shielded cable, and mount the Avtron AV485 encoder. There are no changes required to your existing drives.

Keep your analog drives working for years to come, improve reliability, and increase your machine output. Select the Avtron upgrade package today!

# Avtron Brushless Tachometer Upgrade Package, NEMA 56C Face & Foot Mount

## OUTLINE DRAWING



Check out our web site for more detailed specifications, drawings, and installation instructions. [www.avtronencoders.com](http://www.avtronencoders.com)

## MORE UPGRADE ADVANTAGES

- SMARTach sensors find problems before they cause a failure
- Digital technology supports future digital drive upgrades
- Replacement and spare parts widely available & interchangeable with AV485, AV685, & AV850
- Optional winder/ultra-low-speed control
- Optional encoder air purge permitted for explosive atmosphere applications
- Alternate AV850 encoder can be used on many DC motors to eliminate couplings, bearings, and all wearing parts
- Optional shaft grounding or dual through-shaft for accessory mounting
- Additional options to replace GE PY & Baldor/Reliance RE210 models

## UPGRADE SPECIFICATIONS

**Operating Power:** 110VAC, 0.25A

**Output Format:** 50, 100, or 200V/1000RPM

**Linearity:** +/-0.002%

**Offset:** None

**Reversing Error:** Zero

**Speed:** 5000 RPM Max. (contact factory for higher speeds)

**Temperature:**

K661: 0°C to -60°C (for cabinet mount)

AV485: -40°C\* to +120°C\* (for machine mount)

AV850: -40°C to +100°C (for machine mount)

**Encoder Electronics:** Fully Encapsulated, IP67\*\*

**Vibration (encoder):** 18g's

**Shock (encoder):** 1 meter drop test

**Weight (encoder + converter):** 25lbs [11kg]

\* AV485: -20C to +80C standard  
\*\* Connector options may reduce IP rating

## SELECTION GUIDE

UPGRADE PART NUMBERS, INCLUDING AV485 ENCODER AND K661 CONVERTER									
Model	Temp Rating	Foot Bracket	Style	Left Module		Right Module		Connector Options	Modifications
				Line Driver	PPR	Line Driver	PPR		
AV485	N- -20°C to 80°C C- -40°C to 80°C H- -20°C to 120°C*	2- 5BC42/46/66 style	S- single shaft D- dual shaft G- grounding	8- 5-24/5-15 VDC	L- 240	X- none	X- none	P- industrial connector mounted on encoder body with Plug	003- include K661 digital to analog converter, panel mount
+ Available 1Q 2010									

Specifications and features are subject to change without notice.

