# Avtron AV67 THIN-LINE III<sup>TM</sup> Encoders



### Heavy Mill Duty Magnetic Modular Encoder 6.75" C-Face Mount

## STRONGER and SMARTER

 Heavy Mill Duty
 Simple, Secure Installation
 All models are protected against all short circuits and wiring errors
 Wide-Gap Technology: No Sensor Scraping or Adjustment

 4 to 50000 PPR
 No Couplings or Bearings
 Sealed Electronics

 Self-Diagnostic LED and Alarm Output

 Universal 5-24V Operation
 3 Year No-Hassle Warranty

#### AV67

AV67 THIN-LINE III<sup>™</sup> heavy mill duty modular magnetic encoders fit 6.75" C-Face flanges typically found on Baldor Reliance motors. Other THIN-LINE III models, ranging from 115mm to 8.5", are available to fit other motor sizes.

THIN-LINE III encoders feature simple installation, durable construction, and clear diagnostics to eliminate encoder-related downtime:

First, the magnetic sensors are fully potted, to withstand dirt and liquids. No glass disks, no optics to clog. There are no moving, wearing parts!

The patented Wide-Gap<sup>™</sup> Cam Screw Rotors<sup>™</sup> put an end to sensor damage, are simpler to install, and stay securely mounted to the shaft.

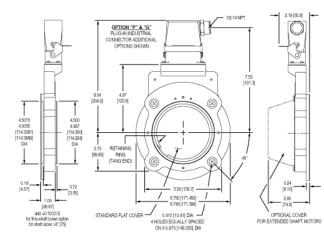
The universal 5-24V design drives longer cables and is protected against wiring errors and surges.

When you power up an AV67, you know you installed it right: the green light tells you the digital self-tuning has set your AV67 optimally.

If at any time, the AV67 cannot produce ideal signals, the light changes to red, and the remote alarm contact activates. However, the encoder keeps working to give you time to schedule service. Any time there are wiring errors, the LED changes to orange.

With a real-world installation history of over 4,500,000 hour MTBF, AV67 encoders will keep your machine running 24/7/365!

#### **OUTLINE DRAWING**



#### **MORE AV67 ADVANTAGES**

- Replaces Avtron M67, Northstar/Dynapar™ RL67, S6; online cross reference guide available
- Shrugs off dirt, oil, and water contamination
- Highly resistant to electrical and magnetic motor and brake noise
- If damaged, electronics can be replaced without removing rotor
- Patented Cam Screw Rotor™ eliminates rotor slipping
- Built-in motor position guide and diagnostic check
- No air gap adjustment required Т
- Corrosion-resistant coating on all metal surfaces Т
- Second C-Face included for outboard brake/accesory mount i.
- Sealed thru-shaft option
- Fits shafts 0.500" 3.188" [10 85 mm]
- Fits Baldor/Reliance RPM AC & DC III Motors L.
- 4,500,000+ hour MTBF design

#### **AV67 SPECIFICATIONS**

Operating Power: Volts: 5 - 24 VDC; Current: 100mA, no load Output Format: A Quad B with Marker (A,/A, B,/B, Z,/Z)

**Frequency Range:** 

@5, @1m cable, 250 kHz Max

@24V, @300m cable, #8 output, 45 kHz Max

Max. Instantaneous Current Output: 3000 mA

PPR: 4 - 50000 Speed: 5400 RPM Max. std., for higher speeds, consult factory

Check out our website for more detailed specifications, drawings, and Electronics: Fully Encapsulated, IP67 installation instructions. www.avtronencoders.com

Temperature: -40° to 100°C (150°C rotor)

- Vibration: 18 g's
- Shock: 1 meter drop test
- Chemical: Polyurethane enamel paint protects against salt spray, mild acids, and bases. Weight: 2-3 lbs (0.9 kg to 1.36 kg)

#### **SELECTION GUIDE**

AV67 PART NUMBERS AND AVAILABLE OPTIONS										
Model	Housing Type	Shaft Size (Thru-Shaft Rotor)	Cover Style	Line Drive	Single/Left Output (PPR)	Right Output (PPR)	Connector	Modifications		
AV67A * Set Sc	1- Single Output	C0-         None           C0-         None           Thru-Shaft Rotor         US           US         Metric           US         Metric           US         Metric           US         School           CG-         0.475           CG-         1.500           CG-         1.625           DH-         30mm           CH-         1.500           CH-         1.620           CH-         2.125           CH-         2.475           CH-         2.475           CH-         2.475           CH-         3.129	E- Extended Shaft Cover F- Flat Cover T- Flat Thru- Hole Cover with Shaft Seal D- Dome Cover	9- 5-24V in,	0- Non- V- 900 std. J- 960 F-60 Y- 1024 G-100 Z- 1200 H-120 3- 2000 F-2128 4- 2048 N-256 D-4096 F-300 8-4800 G-500 R-512 S-600	X- None	W-3 FL Cable, Sealed	000- No Modification 004- Add Housing Drain (single output only) 005- Super Magnetic Shielding 4xx- Special PPR Enter Ø in the PPR code(s), select the special option code below 9xx- Special Cable Length, xx=length in feet 00W- Connector on 18" cable: Use w/ options "T","U"		
		Mounted on E	00W							
		10 0	in 10 Din	7 Pin 4	0 Pin 10 Pin	10 Pin	(#)0 Dim			

	Connector Options								
Moun	Mounted on Flex cable			00W					
10 Pin MS	10 Pin EPIC	10 Pin mini MS	7 Pin MS«	10 Pin MS«	10 Pin EPIC«	10 Pin mini MS«	(*)8 Pin M12		
Not Available	G- w/ plug Northstar pinout P- w/ plug	R- w/ plug	Not Available	plug on conduit box (Large Encoder	plug on	Cr in plug	T- w/o plug (Turck Pinout) U- w/o plug (US Pinout)	option 00W	



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Features and specifications are subject to change without notice. EU-SMART<sup>™</sup>, SMARTSafe<sup>™</sup>, SMARTTach<sup>™</sup>, THIN-LINE<sup>™</sup>, WIDE-GAP<sup>™</sup>, SAFETach<sup>™</sup> and BULLSEYE32<sup>™</sup> are trademarks of Nidec Industrial Solution. All other trademarks and registered trademarks are the property of their respective owners. Nidec Industrial Solutions' standard warranty applies. All dimensions approximate.