Rev: 06-04-18



Avtron AV67 THIN-LINE III™ Encoders



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

STRONGER and SMARTER

AV67

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

1 3 Year No-Hassle Warranty

AV67 THIN-LINE III™ 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™ Cam Screw Rotors™ put an end to sensor damage, are simpler to install, and stay securely mounted to the shaft.

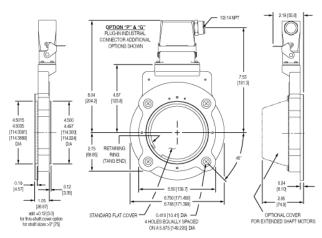
The universal 5-24V design drives longer cables and is protected against wiring errors and surges.

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
- Corrosion-resistant coating on all metal surfaces
- Second C-Face included for outboard brake/accesory mount
- Sealed thru-shaft option
- Fits shafts 0.500" 3.188" [10 85 mm]
- Fits Baldor/Reliance RPM AC & DC III Motors
- 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

Electronics: Fully Encapsulated, IP67 Check out our website for more detailed specifications, drawings, and 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

installation instructions. www.avtronencoders.com

AV67 PART NUMBERS AND AVAILABLE OPTIONS												
Model	Housing Type	Shaft Size (Thru-Shaft Rotor)	Cover Style	Line Driver	Single/Left Output (PPR)	Right Output (PPR)	Connector	Modifications				
AV67A * Set Sc	T origin origin	CO None-std. Shaft Size XX- None Thru-Shaft Rotor US 10-50-50 Metric CB- 0.825 SB- 12-mm CD- 0.825 SB- 12-mm CD- 0.825 SB- 12-mm CD- 0.838 DC- 15-mm CD- 0.838 DC- 15-mm CF- 1.125 DB- 14-mm CF- 1.125 DB- 15-mm CH- 1.375 DF- 24-mm CH- 1.875 DB- 36-mm CH- 1.875 DJ- 36-mm CL- 1.875 DJ- 36-mm CR- 2.500 DB- 52-mm CR- 2.500 DB- 52-mm CR- 2.500 DB- 52-mm TR- 2.625° DR- 56-mm TW- 2.750° MU- 66-mm TW- 2.750° MU- 66-mm TW- 2.750° MU- 76-mm TW- 3.188° MW- 76-mm TR- 3.125° MW- 76-mm TR- 3.125° MW- 86-mm TR- 3.125° MR- 86-mm TR- 3.125° MR- 86-mm	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 SE 60 Y- 1024 G- 100 Z- 1200 H- 120 3- 200 H- 120 3- 200 H- 256 D- 4006 B- 480 9- 5000 E- 360 9- 5000 R- 512 S- 600	X- None	W-3 Ft. 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"				

Connector Options												
Moun	ted on Enco	der	Moun	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		plug on conduit box (Large Encoder	Q- w/o plug on remote mount blade Z- w/ plug	pg	T- w/o plug (Turck Pinout) U- w/o plug (US Pinout)					

(*)Requires Special option 00W





Nidec-Avtron Makes the Most Reliable Encoders in the World

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All dimensions are in inches [millimeters] Specifications and features are subject to change without notice. EU-SMART™, SMARTSafe™, SMARTach II™, THIN-LINE™, THIN-LINE II™, WIDE-GAP™, and BULLSEYE32™ are trademarks of Nidec Avtron Automation. All other trademarks and registered trademarks are the property of their respective owners.