ADVANCED MICRO CONTROLS INC.
20 GEAR DRIVE, PLYMOUTH INDUSTRIAL PARK, TERRYVILLE, CT 06786
TEL: (860) 585-1254 FAX: (860) 584-1973

HTT425-T1S-100 Specification Sheet

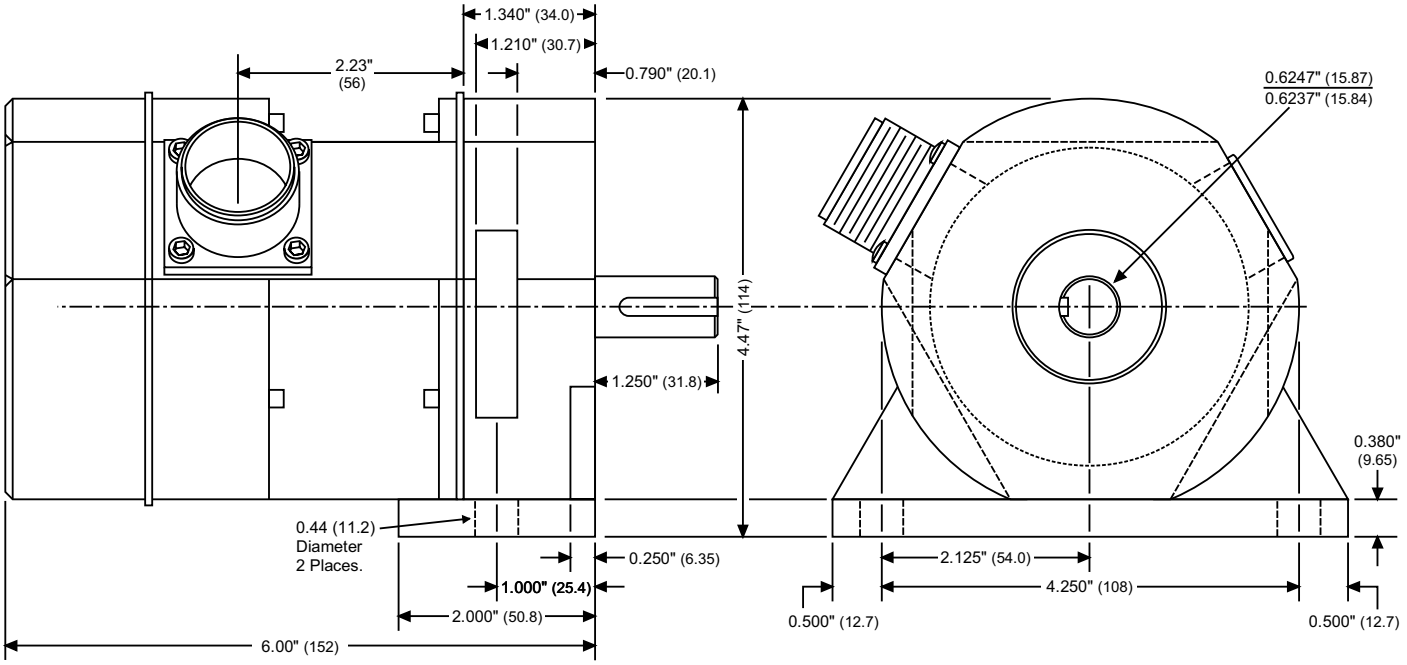
SHEET # 940-2T291

DESCRIPTION

Designed as a dual resolver transducer, this package has a 5/8" stainless steel shaft and an oversized double row sealed bearing. This transducer is an absolute position sensor that encodes 100 turns. Outside connections to the transducer are made through a watertight MS connector. The transducer connects to AMCI equipment using our standard CML cables. The transducer is IP67 rated and is suitable for outdoor or washdown applications.

Because of the large shaft bearings used in the HTT-425-T1S-100, gears or pulleys can be directly mounted onto the shaft. The HTT-425-T1S-100 is an absolute sensor it cannot "lose counts" when rotating as an incremental transducer can. If the transducer appears to be losing counts when operating, the usual cause is a shaft slipping in a loose coupler. If you are losing counts, check all mechanical couplings and use shaft keys whenever possible.

DIMENSIONAL DRAWING



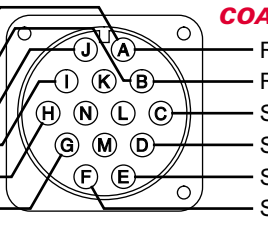
( ) = Dimensions in millimeters

FINE RESOLVER

R1: (RED/WHT)
R2: (BLK/WHT)
S3: (BLACK)
S1: (RED)
S2: (YELLOW)
S4: (BLUE)

COARSE RESOLVER

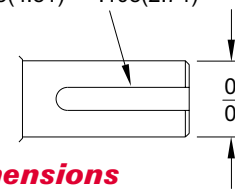
R1: (RED/WHT)
R2: (BLK/WHT)
S4: (BLUE)
S2: (YELLOW)
S1: (RED)
S3: (BLACK)



Female Mating Connector	*AMCI Part #*
MS3106A20-27S STRAIGHT	MS-20
MS3108A20-27S RT. ANGLE	MS-22
MS3106F20-27S WATERTIGHT	MS-201

Keyway Specification

.1885(4.79) / .1895(4.81) X .106(2.69) / .108(2.74) DEEP X 1.0(25.4)



0.6247" (15.87) / 0.6237" (15.84)

Key Dimensions

0.187(4.75) / 0.188(4.78) SQ. X 1.0(25.4)

HTT-425-T1S-100 Specification Sheet

SPECIFICATIONS

MECHANICAL

Shaft Loading:	Radial: 100 lbs. max.
	Axial: 50 lbs. max.
	Bearing life rated at 2X10⁹ revolutions minimum at specified shaft load.
Starting Torque:	8 oz.in. @ 25°C
Moment of Inertia:	20 oz-in-sec² max.
Weight:	5.0 lbs

ELECTRICAL

Input Voltage:	7.0 V
Input Freq:	5000 Hz
Primary:	Rotor
Input Current:	20.0 mA Max.
Output Voltage:	6.65 V Nom.
Trans. Ratio (TR):	0.95 ± 5%
Accuracy:	± 5 min. (max error)

ENVIRONMENTAL

Shock:	50 g's for 11 mSec
Vibration:	15 g's to 2000 Hz
Operating Temp:	-30 to 125°C
Enclosure:	IP67 / NEMA 4X
	Hard Coat Anodized Body
	303 Stainless Steel Shaft

The HTT425-T1S-100 contains two resolvers, called Fine and Coarse, that have the electrical specifications listed above. The Fine resolver is coupled directly to the input shaft. The two resolvers geared together in a vernier ratio of 99:100. This arraignment allows the HTT425-T1S-100 to encoded 100 turns of absolute position data.

FOR MORE INFORMATION

If you need more information on the HTT-425-T1S-100 use these three resources:

- If you have internet access, check our website at http://www.amci.com. We've worked hard to make our site the respository of information you need to specify and use AMCI products. New product news, product specifications, compatibality tables, application notes, and PDF manuals are all available 24 hours a day.
- You can also call AMCI for sales or technical support at (860) 585-1254 from 8AM to 5PM EST, Monday through Friday. An applications engineer will be available to assist you.
- Finally, you can e-mail us at sal*es@amci.com* or *techsupport@amci.com.*