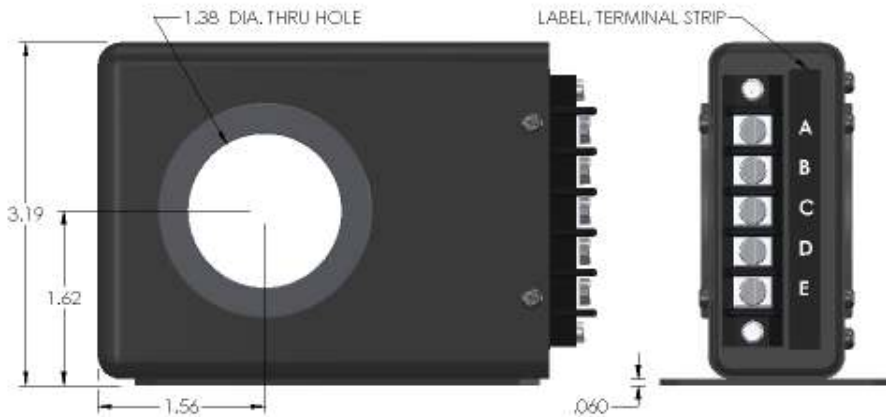
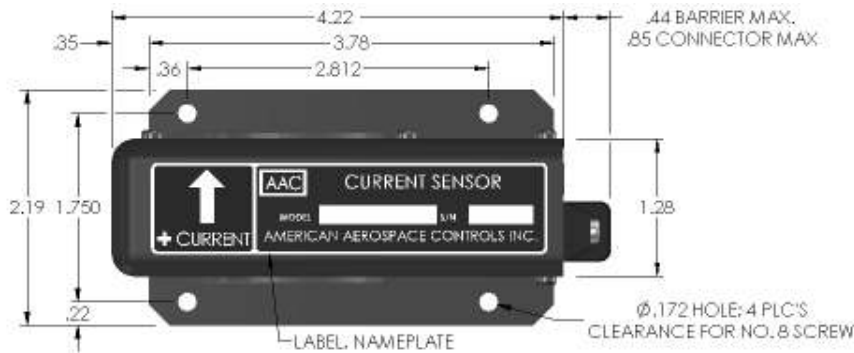
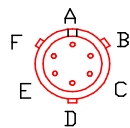


Dimensions in Inches, Tolerances: .XX ± .03 .XXX ± .010

**BIDIRECTIONAL CURRENT SENSOR
SERIES 943A**



MOLDED TERMINAL BLOCK WITH 5-40 TERMINAL SCREWS, 3/8 IN. CENTER TO CENTER SPACING. ACCEPTS WIRE SIZES TO 14 AWG AND WIRE LUGS UP TO 9/32 IN. WIDE.



CONNECTOR OPTION

ADD "C" TO MODEL NO.
CONNECTOR P/N
PT02E-10-6P-023
OR EQUIV.
MATING CONNECTOR
MS3116F-10-6S
OR EQUIV.

TERMINAL IDENTIFICATION

- 1- A. SUPPLY VOLTAGE (+)
- 2- B. SUPPLY & OUTPUT (RTN)
- 3- C. SUPPLY VOLTAGE (-)
- 4- D. OUTPUT SIGNAL (+)
- 5- E. CASE GROUND
- F. SPARE

PART NO.	INPUT CURRENT	TEMPERATURE COEFFICIENT	SUPPLY CURRENT
943-100	0 to ±100	.04%	85mA
943-200	0 to ±200	.04%	115mA
943-300	0 to ±300	.02%	165mA
943-400	0 to ±400	.02%	215mA
943-500	0 to ±500	.02%	265mA
943-600	0 to ±600	.01%	265mA
943-750	0 to ±750	.01%	265mA
943-800	0 to ±800	.01%	265mA
943-1000	0 to ±1000	.01%	265mA

INPUT CURRENT

RANGE..... Amps. DC or AC peak. See Table
CURRENT OVERLOAD ±5000 amps. DC continuous
FREQUENCY DC to 350KHz

OUTPUT

VOLTAGE SIGNAL..... 0 to ±5Vdc FS (Full Scale)
ACCURACY ± 0.5% FS
LINEARITY ±0.1% FS
BANDWIDTH..... DC to 350KHz
RESPONSE TIME (10 to 90%)..... 1 u-sec
OUTPUT IMPEDANCE..... 100 Ohms max.
TEMPERATURE COEFFICIENT % FS per °C. See Table

POWER SUPPLY

SUPPLY VOLTAGE..... ±15Vdc ±1Vdc
CURRENT DRAIN See Table mA max.
REVERSE POLARITY PROTECTION..... 10µA max. current drain without damage

ENVIRONMENTAL AND PHYSICAL CHARACTERISTICS

OPERATING TEMPERATURE..... - 55° C to +85° C
STORAGE TEMPERATURE - 55° C to +100° C
OPERATING HUMIDITY 0% to 95% RH
MOISTURE RESISTANCE Will meet Method 106 of MIL-STD -202 & Method 507.1, Proc. 1 of MIL-STD-810
ALTITUDE Operating: Sea level to 70,000 ft.
RANDOM VIBRATION..... Operating MIL-STD-810E Category 5, Proc. 1, WO=0.012G²Hz, duration 1 Hr. Figure 514. 4-8 suggested vibration levels for high performance Aircraft 12.5 G-RMS composite min.
DIELECTRIC STRENGTH..... 350V RMS terminals 1-4 to 5 & case
INSULATION RESISTANCE 100 M-Ohms min.
ATTITUDE..... Unit will perform as specified when mounted in any position.
SHOCK..... Operating: 50g, 11 m-sec half sine pulse Method 213 Condition A of MIL-STD-202
WEIGHT 1.5 lbs. max.

AAC	Drawing Number 700-943A	Rev. C
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