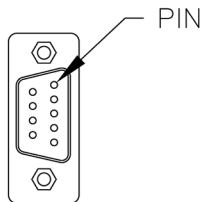
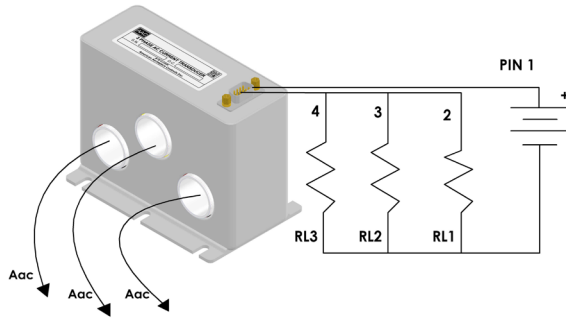
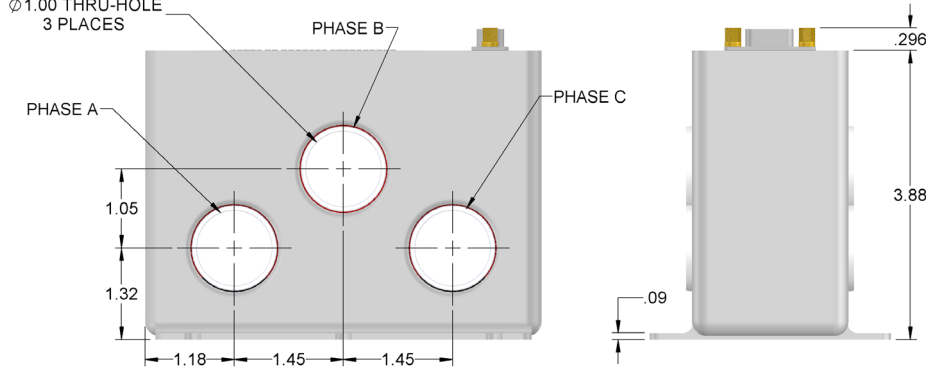
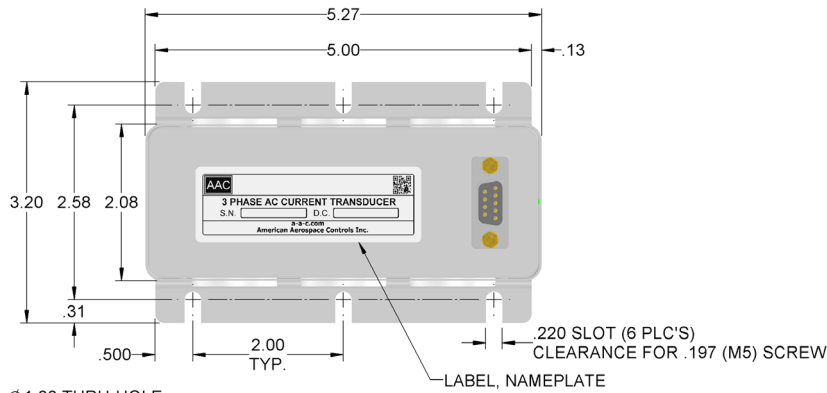


Dimensions in Inches, Tolerances: .XX ± .03 .XXX ± .010

3 PHASE AC RMS CURRENT TRANSDUCER

SERIES S1096

4 to 20mA LOOP POWER



MATING CONNECTOR
P/N: SPC15411

TERMINAL IDENTIFICATION

1. SUPPLY (+)
2. OUTPUT PHASE A
3. OUTPUT PHASE B
4. OUTPUT PHASE C
- 5-9 SPARE

*** Optional Model**

ADD SUFFIX -400
TO PART NUMBER
FOR 400Hz OPERATION.

PART NUMBER	CURRENT RANGE	OVER LOAD	PART NUMBER	CURRENT RANGE	OVER LOAD
S1096-2	0 to 2	500	S1096-150	0 to 150	600
S1096-5	0 to 5	500	S1096-200	0 to 200	750
S1096-10	0 to 10	500	S1096-250	0 to 250	800
S1096-20	0 to 20	500	S1096-400	0 to 400	1000
S1096-25	0 to 25	500	S1096-500	0 to 500	1200
S1096-50	0 to 50	500	S1096-600	0 to 600	1200
S1096-75	0 to 75	500	S1096-800	0 to 800	1500
S1096-100	0 to 100	500	S1096-1000	0 to 1000	1500

INPUT

RANGE	Aac rms (see table)
OVERLOAD	Aac rms (see table)
FREQUENCY RANGE	47 to 63Hz (Optional Model Available)*

OUTPUT (Phase A, B & C)

CURRENT SIGNAL	4 to 20mA DC FS (Full Scale)
ACCURACY (Over the Temperature Range)	±0.5% FS max. (± 100uA) note 1
RIPPLE	0.2% max. (40uAac)
RESPONSE (10 to 90%)	300m-sec.
LOAD RESISTANCE (RL)	250 Ohms Nominal (0 to 300 Ohms Range)
CREST FACTORS	0 to 5
CURRENT SIGNAL @ OVERLOAD	23mA DC typ.
OUTPUT PROTECTION	Reverse Polarity Protection

POWER SUPPLY (PS)

SUPPLY VOLTAGE	+24Vdc
CURRENT DRAIN	12 to 70mA DC
SUPPLY VOLTAGE RANGE	+14 TO 32Vdc

ENVIRONMENTAL AND PHYSICAL CHARACTERISTICS

OPERATING/STORAGE TEMPERATURE RANGE	-40° to +85°C
CONDUCTED SUSCEPTIBILITY (Note 2)	DO-160E Section 20 (1.5mA @ 10KHz to 75mA. @ 500KHz to 400MHz).
TRANSIENT BURST (EN 50155)	±2KV Peak supply & output leads
SURGES (EN 50155)	±2KV Open CKT test voltage supply leads.
ELECTROSTATIC DISCHARGE (ESD)	DO-160E Section 25 Category A.
HUMIDITY (Operating)	0% to 100%RH
MOISTURE RESISTANCE	MIL-STD-202 Method 106.
RANDOM VIBRATION (Operating)	MIL-STD-810F, Proc.1,Cat.12, WO=.095G ² /Hz, Time1 hr, Fig. 514.5C-8 Overall level 12.G- RMS
SHOCK	50g 11m-sec. half sine pulse
ISOLATION	Input to output 5KV rms 60Hz/1min.
INSULATION RESISTANCE	500 M-Ohms @ 100Vdc.
CASE MATERIAL	Brass.
FINISH	Fuse Tin Plate Per ASTM-B-545.
WEIGHT	4 lbs. Max.

Note 1: Specified accuracy includes the combined worst case effects of 4mA Offset, Temperature, Hysteresis, Supply Swings and Current Cable Positioning.

Note 2: Requires bonding/grounding for conductive susceptibility compliance. The bottom surface of the mounting plate is provided with conductive finish Per ASTM-B-545. (3% min. to 12% max. lead allow)

Note 3: Pin Contacts are Copper alloy with gold plated over nickel.

AAC	Drawing Number S1096-1070	Rev. C
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