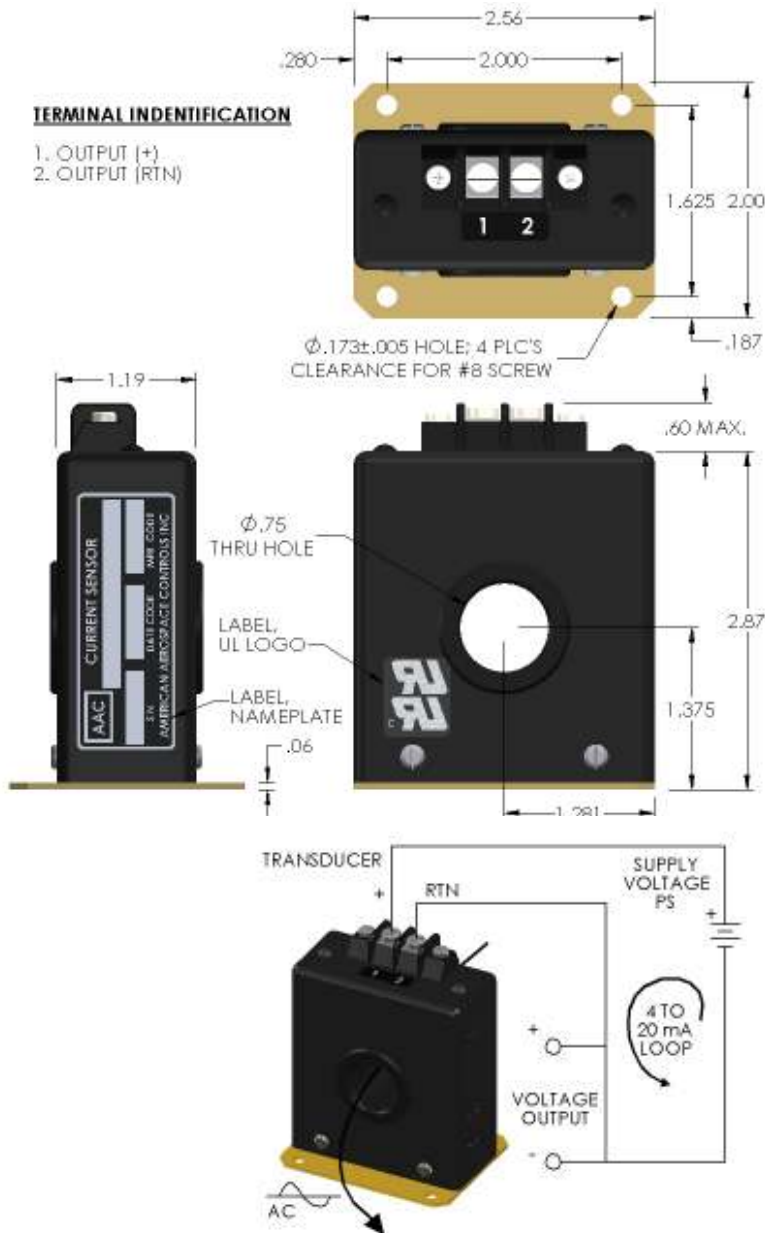


Dimensions in Inches, Tolerances: .XX ± .03 .XXX ± .010

**AC CURRENT TRANSDUCER  
SERIES S383L  
4 TO 20mA 2 WIRE LOOP OPERATION**

**TERMINAL IDENTIFICATION**

1. OUTPUT (+)
2. OUTPUT (RTN)



<u>PART NO.</u>	<u>INPUT RANGE</u>	<u>PART NO.</u>	<u>INPUT RANGE</u>
S383L-50	0 to 50mA	S383L-250	0 to 250mA
S383L-100	0 to 100mA	S383L-500	0 to 500mA
S383L-200	0 to 200mA	S383L-1A	0 to 1A

**INPUT**

RANGE	Aac See Table
FREQUENCY	50 to 60 Hz
OVERLOAD CONTINUOUS	250Aac
OVERLOAD TRANSIENT	100 Times Range For 250m-sec.

**OUTPUT**

CURRENT SIGNAL	4 to 20mAac FS (Full Scale)
ACCURACY	±0.5% FS or ±0.1mA max. (Over Temperature Range)
RIPPLE	±0.25% FS (±0.05 mA RMS)
RESPONSE (10 to 90%)	100mS max.
LOAD RESISTANCE (RL)	250 Ohms Nominal
LOAD RESISTANCE RANGE	0 to 1400 Ohms (See Note)
CURRENT SIGNAL @ OVERLOAD	30mA TYP.
PROTECTION	Reverse Polarity Protected

**POWER SUPPLY (PS)**

SUPPLY VOLTAGE	15Vdc Nominal
CURRENT DRAIN	20mA
SUPPLY VOLTAGE RANGE	7 to 35Vdc

**ENVIRONMENTAL AND PHYSICAL CHARACTERISTICS**

OPERATING TEMPERATURE RANGE	-40° to +85°C
STORAGE TEMPERATURE RANGE	-40° to +85°C
ISOLATION	Input/Output/Case
INSULATION RESISTANCE	200 M-Ohms @ 500Vdc
INPUT CONDUCTOR VOLTAGE	1.5KV max. (5KV max. with insulated cable)
CASE **	Aluminum type 1100-0 (finish corvel lava black 20-7042HY polyester powder coat)
WEIGHT	10 oz. Max.

**TERMINAL IDENTIFICATION**

1. OUTPUT (+)
2. OUTPUT (RTN)

**TERMINAL SCREWS:**

5-40 SCREWS, 3/8" CENTER TO CENTER  
SPACING ACCEPTS WIRE SIZES UP TO  
14 AWG. AND WIRE LUGS UP TO 9/32  
WIDE.

**NOTE:**

MINIMUM DC SUPPLY VOLTAGE =  $7_v + .02 (RL)$   
RL = ANY VALUE BETWEEN 0 AND 1400 OHMS.

<b>AAC</b>	<b>Drawing Number 700-S383L-1003AM2</b>	<b>Rev. E</b>
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