Current Transducer/Sensor

A1 1-phase AC Current Transducer

FEATURES

Transforms the measured 1-phase AC current into the standard DC voltage or DC current output according to the linear proportion;
Low power consumption three isolations, high reliability;
Excellent anti-interference ability and high accuracy (0.5%);
Plug terminal input, standard din rail(35mm) mounting;
It was widely applied to all kinds of industrial current online detection system;
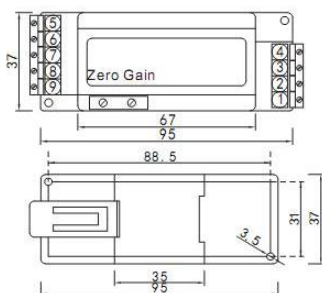Small size, dimension(mm): 95(L)×37(W)×32(H)

MODEL 【★TRMS detection should plus A after AI 12】

LF- AI12- ☐ ☐ A1-0.5/ ☐
       A   B   C

Model selection1: LF-AI12-32A1-0.5/0~5A

Explanation: this product is a 0~5A input range, 0~5V output, 12V power supply, A1 style 1-phase AC current transducer.

ELECTRICAL DATA

Standards......................IEC688:1992, QB/LF2007-1
Input Range...........0~5A can choose 0~5A, 0~1A etc
Accuracy Grade.....................................≤0.5%F.S.
Temperature Characteristics.....≤50PPM/℃(0~50℃)
Power Consumption............≤30mA+output current
Working Stability....................annual change＜0.2%
Isolation Withstand Voltage.........AC2.0KV/min*1mA
                                between input/output/case
Isolation Resistance....................≥20MΩ(DC500V)
Impulse Voltage..............5KV(peak value), 1.2/50uS
Response Time..≤300mS
Overload Capacity...........2 times current continuous
Working Environment........................... -10℃~50℃,
                            20%~90% without condensation
Storage Environment...........................-40℃~70℃,
                            20%~95% without condensation

MODEL REMARKS

A. Output range:
  3: 0~5V
  4: 0~20 mA
  5: 4~20 mA
  6: 1~5V
  7: two-wire system 4~20mA
  8: 0~10V
  F: OC frequency signal output
  T: Special output
B. Power supply:
  2: 12V±10%
  3: 15V±10%
  4: 24V±15%
C. Current input range

DIMENSION DIAGRAM

CONNECTION DIAGRAM

(1)Voltage,current output;
(2)Frequency output;
(3)Two-wire system 4~20mA output

NOTE

1. Notice the auxiliary power supply information on the label, make sure power supply's degree and polarity are correct before power on.
2. When the transducer used in a strong magnetic environment, the shelter of the input wire, output signal should be as short as possible.
3. This product use the flame retardant ABS plastic case(its utmost temperature is +85℃), please don't bake the case in high temperature, or it will be distorted, influence product's performance.