PRO I33　3IN1 AC Current Transducer

Product Description

Pro Series Transducers for Electrical Quantities, fundamental devices for process automation. All our instruments fulfill all important requirements and regulations concerning electromagnetic compatibility and safe isolation (IEC688-1992 standard and GB/T 13850-1998 standard). The devices have been developed, manufactured and tested in accordance with Quality Assurance System ISO 9001.

Technical Specification

Accuracy:	Class0.2，0.5
Auxiliary Power Supply:	85V~265VDC/AC 24V~80VDC/AC
Stability:	Annual Change Rate　0.2%
Input Overload Capacity:	
Continuous Overload Capacity	≤1. 5X
Transient Overload Capacity	Voltage Limit≤3X　Current Limit≤50X
Output	
Constant Voltage Output, Load Resistor	Rext≥250Ω
Constant Current Output, Load Resistor	Rext≤500Ω
Rext = ∞	Voltage≤20V
Alternating Wave:	≤18mV(Peak-Peak)
Response Time:	≤300ms
Power Consumption:	＜3VA
Striking Voltage:	≤2.5kV
Material of Housing:	Lexan 940, Flammability acc. to UL 94V0
Operating Temperature:	-10℃~+55℃
Storage Temperature:	-40℃~+85℃
Relative Humidity of Annual Mean	≤90%RH
Installation:	DIN 35mm Rail
Size:	105mm×69mm×110mm
Guaranty Period:	2 years

Theory

The 3in1 AC current transducer is a combination transducer that integrates three I31 transducers into 1 housing. It takes three phase current inputs and provides three separate isolated outputs.

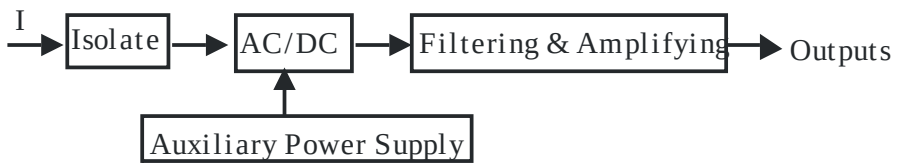

Fig.1. Block Diagram for I33 3In1 AC Current Transducer

Technical Data

Input:0A-1A,0A-2A,0A-5A

Output:4mA-20mA,0mA-20mA,0mA-10mA,0mA-1mA,0V-5V,0V-10V,0V-1V

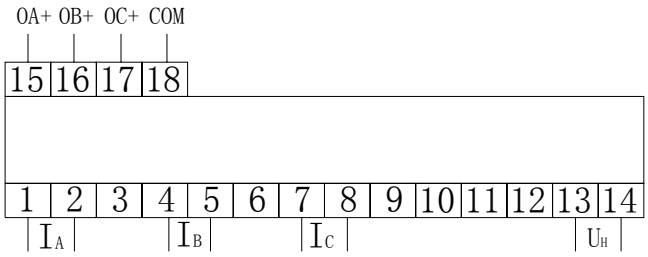

Fig.2.Wiring Diagram

IA, IB, IC : Input Current Variables
UH: Auxiliary Power Supply
OA,OB,OC: Output In Correspondence to IA ,IB, IC
COM: Common Terminal

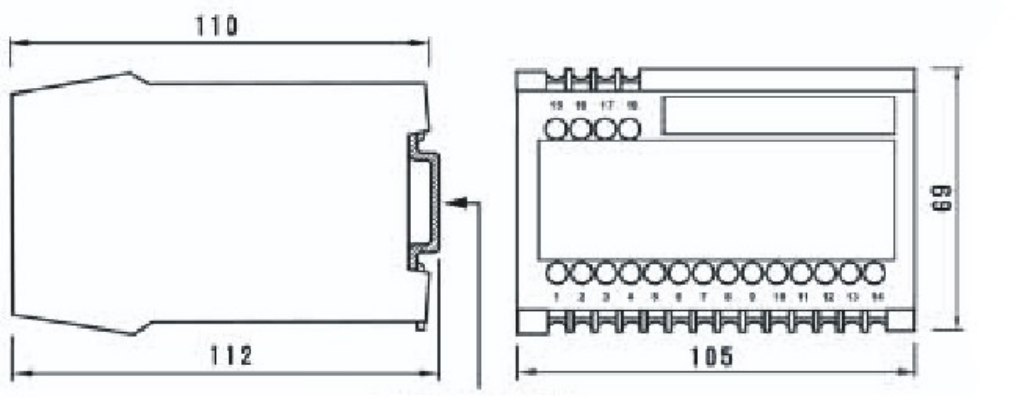

Fig3. Dimensional Drawings