Current Sensor CT1005-S(T)

CT1005-S(T) adopts high-quality imported Hall components and utilizes the magnetic compensation principle to perform galvanic isolation measurement of DC, AC, or pulsed currents. The output current is proportional to the measured current, offering excellent accuracy, linearity, and stability.

Parameters

Electrical Specifications

- Rated Measurement Current：1000Arms
- Measurement Range：0～±2000A
- Turns Ratio：1:5000
- Rated Output Current：200mA
- Supply Voltage：±15×(1±5%)V～±24×(1±5%)V
- Secondary Current Consumption：30mA(@±24V) + output measurement current
- Dielectric Strength：7kVrms/50Hz/1min (between primary and secondary circuits)
- Load Resistance：≤7 Ω at ±24 V (max measurement current 2000 A)
  ≤8 Ω at ±15 V (max measurement current 1200 A)

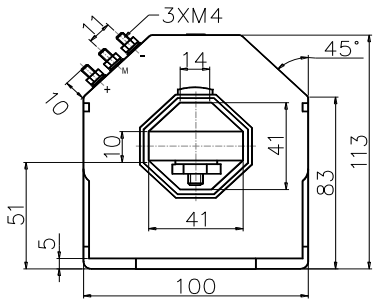
Accuracy & Dynamic Performance

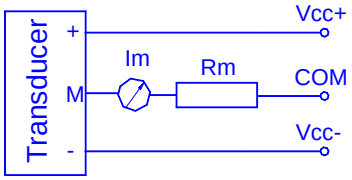
- Accuracy：±0.4%
- Non-Linearity：±0.1%
- Zero Offset：≤±0.4mA
- Response Time：≤1μs
- di/dt：>50A/1μs

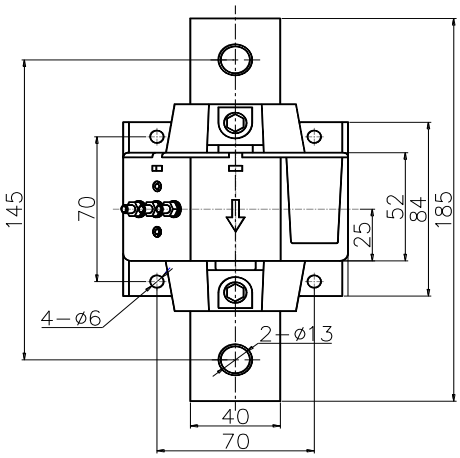
General Data

- Operating Temperature：-40℃ ~ +85℃
- Storage Temperature：-45℃ ~ +90℃
- Weight：≤1200g (1150 g with busbar)

Outline & Interface







Notes

- The output current is positive when the direction of the measured current matches the arrow mark on the product housing; Otherwise, the output is negative.