

Closed Loop Sensor

**Nominal Rating 300A rms**

**CS300-C**

**Electrical Data**

- Nominal current(I<sub>n</sub>) 300A rms
  - Current range 0~ ±2400A peak\*
  - Nominal output current (I<sub>m</sub>) 150 mA
  - Turns Ratio 2000/1
  - Measuring Resistance (R<sub>m</sub>) ref. figure 1
  - Overall accuracy at 25°C 0.5%
  - Supply voltage ±12V ~ ±30V
  - Current consumption 25mA + output current
- \* at ±30V power supply, R<sub>m</sub> ≤ 1 Ω, 25°C

**Dynamic Performance**

- Null offset current. Max.0.2mv (25°C)
- Thermal drift offset current Max. .3mA (0°C to 70°C)
- Linearity: better than 0.1%
- Response time better than 1µS
- di/dt: better than 50A/µS
- Frequency range: DC to 100KHz

**General Data**

- Sensor housing: Fire retardant UL94V-O
- Isolation voltage: 5kV/50Hz/1min.
- Operating temperature: -25°C to + 85°C
- Storage temperature: -40°C to + 100°C

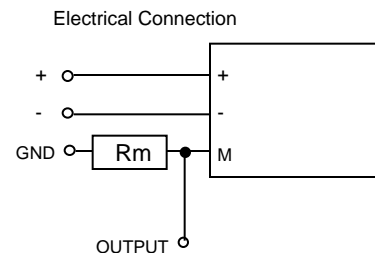
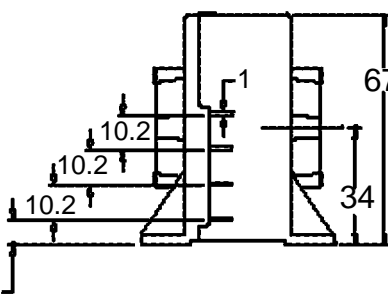
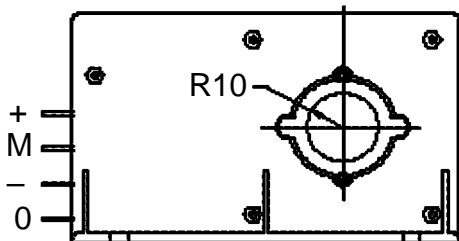
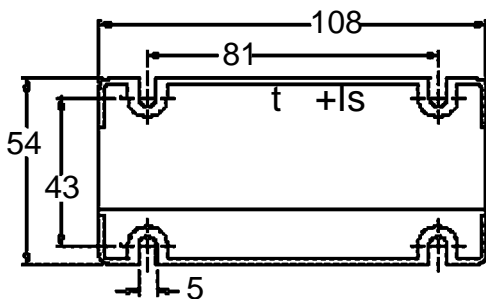
**Note**

- Busbar temperature should not exceed 100°C .
- A positive output voltage is obtained on terminal M when the input current flows in the direction of the arrow.

**Fig.1 Maximum value of the measuring resistance**

At maximum input amp-turns (peak) Supply voltage	300 A•T	500 A•T	1000# A•T	2400# A•T
±12V	50	25	-	-
±15V	70	30	-	-
±18V	90	40	-	-
±24V	130	65	25	-
±30V	170	90	30	1

# Derate according to duty cycle



Dimensions: mm  
 Weight: 200 gms