



**ELECTRICAL SPECIFICATIONS**

**Current Range:**

1 to 2400AAC, continuous cycle for the full temperature range  
 (3000A if temperature < 35°C or 95°F)

**Transformation Ratio:** 3000:1

**Output Signal:** 0.333mVAC / AAC (1V at 3000A)

**Accuracy and Phase Shift\*:**

Primary current	150A	600A	3000A
Accuracy % Reading	1.5%	0.75%	0.5%
Phase shift	1.5°	0.75°	0.5°

*\*Reference conditions: 23°C ± 3°K, 20 to 85% RH, 48 to 65 Hz, external magnetic field < 40 A/m, no DC component, no external current carrying conductor, test sample centered. Load impedance 1 MΩ.*

**Overload:** 3600A during 5 mn

**Accuracy:** Per IEC 185-26-27  
 Class 0.5 from 48 to 1000 Hz

**Frequency Range:**

30 Hz to 5 kHz; current derating above  
 1 kHz for continuous use

**Ampere Second Product:** 90 AA

**Load Impedance:** ≥ 100 KΩ

**Working Voltage:** 600VAC

**Common Mode Voltage:** 600VAC

**Influence of Adjacent Conductor:**  
 0.005A / AAC

**Influence of Conductor in Jaw Opening:**  
 1% ± 0.1A of Reading

**MECHANICAL SPECIFICATIONS**

**Operating Temperature:**

14° to 122°F (-10° to 50°C)

**Storage Temperature:**

-13° to 176°F (-25° to 80°C)

**Influence of Temperature:** < 0.2% per 10°K

**Jaw Opening:** 3.54" (90 mm)

**Maximum Conductor Size:**

Cable: 2.52" Ø max. (64mm)  
 Bus bar: 1.97 x 5.31" (50 x 135mm)  
 2.52 x 3.94" (64 x 100mm)

**Envelope Protection:**

IP 20 (IEC 529)

**Drop Test:**

500 mm (IEC 68-2-32)

**Mechanical Shock:**

100 g (IEC 68-2-27)

**Vibration:**

10/55/10 Hz, 0.15 mm (IEC 68-2-6)

**Polycarbonate Material:**

Handles: 10% fiberglass charged polycarbonate UL 94 V0

Jaws: ABS UL 94 V2

**Dimensions:**

4.72 x 12.40 x 1.89" (120 x 315 x 48mm)

**Weight:**

2.65 lbs (1200 g)

**Colors:**

Dark gray handles with red jaws

**Output:**

5 ft (1.5m) lead with safety 4mm banana plug

**SAFETY SPECIFICATIONS**

**Electrical:**

Double insulation or reinforced insulation between primary or secondary and outer case of handle upon IEC 1010-2-32.

**Common Mode Voltage:**

- 600 V Category III, Pollution Degree 2

**Electromagnetic Compatibility**

EN 50081-1 Class B  
 EN 50082-2 Electrostatic discharge  
 IEC 1000-4-2

Radiated field IEC 1000-4-3

Fast transients IEC 1000-4-4

Magnetic field at 50/60 Hz IEC 1000-4-8



**ORDERING INFORMATION**

**Current Probe JM852** ..... **Cat #2113.41**

**Accessories:**

Banana plug adapter (to nonrecessed plug) ..... **Cat #1017.45**

**Shipping:** The probe JM852 is shipped with an instruction manual and a product warranty and registration card.

Revision	Description	Date	Approved
1	Created File	August 18, 1998	JPM
2	Verify Specifications	December 1998	JPM
3	IEC 1010-2-32; remove 300V	April 6, 2001	JPM