



ELECTRICAL SPECIFICATIONS

Current Range: 1 to 2000A AC, continuous cycle for the full temperature range

Transformation Ratio: 2000:5

Output Signal: 2.5 mA AC / A AC (5 A at 2000 A)

Accuracy and Phase Shift*:

**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 0.4Ω.*

| | | | |
|--------------------|------|-------|-------|
| Primary Current | 150A | 600A | 2000A |
| Accuracy % Reading | 1.5% | 0.75% | 0.5% |
| Phase Shift | 1.5° | 0.75° | 0.5° |

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

Overload: 2400 A during 10 mn

Open Secondary Voltage: < 42 V by limiting circuit

Frequency Range: 30 Hz to 5 kHz, current derating above 1 kHz for continuous use.

Load Impedance : ≤ 5Ω

Working Voltage: 600 V AC

Common Mode Voltage: 600 V AC

Influence of Adjacent Conductor: 0.005 A / A AC

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

MECHANICAL SPECIFICATIONS

Jaw Opening: 3.54" (90 mm)

Maximum Conductor Size:

Cable: 2.52" Ø max. (64 mm)

Bus bar: 1.97 x 5.31" (50 x 135 mm)

2.52 x 3.94" (64 x 100 mm)

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 48 mm)

Weight: 2.65 lbs (1200 g)

Colors: Dark gray handles with red jaws

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

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature:

14° to 122°F (-10° to 50°C)

Storage Temperature:

-13° to 176°F (-25° to 80°C)

Influence of Temperature:

< 0.1% per 10°K

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)

SAFETY SPECIFICATIONS

Electrical:

- IEC 1010-2-32

- 600 V max. common mode between output and ground

ORDERING INFORMATION

Current probe JM 825A..... Cat #2110.82

Shipping: The current probe JM 825A is shipped with an instruction manual and a warranty card.

Accessories:

Banana plug adapter

(to nonrecessed plug) Cat #1017.45

| Revision | Description | Date | Approved |
|----------|-----------------------------|---------------|----------|
| 1 | New Specifications | Sept. 17 1993 | JPM |
| 2 | Work., common voltage 600 V | Feb. 05 1994 | JPM |
| 3 | Update Specifications | Dec. 4, 1996 | JPM |
| 4 | Verify Specifications | December 1998 | JPM |
| 5 | IEC 1010-2-32 | April 6, 2001 | JPM |