250A AC

Range

Weight:

Drop Test:

Vibration:

Output:

Altitude:

5 to 10A

10 to 40A

40 to 100A

GENERAL DESCRIPTION

ELECTRICAL SPECIFICATIONS

AC Current Transducer CT-253

Operating Range: 0.5 to 250A **Measurement Range:** 5 to 240A **Transformation Ratio:** DC Voltage output **Output Signal:** 20mV DC/A AC (4.8 VDC @ 240AAC) Phase Shift Accuracy 3% of Reading ± 100mV N/A 2.5% of Reading ± 50mV N/A 2.0% of Reading ± 50mV N/A 100 to 240A 2.0% of Reading N/A **Frequency Range:** 40Hz to 10kHz Nominal Operating Conditions: 200A permanently to 1kHz: Derating above 3kHz: 200 A x (1/0.333F), F in kHz **Crest Factor:** 3 @ 200Arms with an error (due to CF) of 4% Working Voltage: 600Vrms Common Mode Voltage: 30Vrms Influence of Adjacent Conductor: <15mA/A at 50Hz DC current <20A, <5% Influence of DC on AC signal: Influence of Conductor Position in Jaw: 0.5% of mV output @ 50/60Hz Influence of Frequency: 40 Hz to 1 kHz: 5% of mV output 1 kHz to 10 kHz: 12% of mV output 2.56" (65mm) < 3% of mA output from 40Hz to 1kHz Influence of Load: 83" (21mm) < 12% of mA output from 1kHz to 10kHz Ø=0.786" (20mm) **MECHANICAL SPECIFICATIONS** Cable max. 5.47 x 2.00 x 1.18" (139 x 51 x 30 mm) Η **Dimensions:** 180 g (6.5 oz) 0.79 x 0.20" 0.83" (21mm) Jaw Opening: (20 x 5mm) Maximum Conductor Size: Cable: 0.78" (20mm) Bus Bar: 0.78 x 0.19" (20 x 5mm) Dual Bus Bar max **Case Protection:** IP 40 (IEC 529) 1.0 m (IEC 68-2-32) .73" 5.47" **Mechanical Shock:** IEC 68-2-27 (18.5mm) IEC 68-2-6 (139mm) **Polycarbonate Material:** Jaws: Polycarbonate with 10% fiberglass charge, Red UL 94 V0 Case: Polycarbonate 920A Gray **Opening Operations - Life:** > 50,000 5 feet double insulated cable with non-insulated ferrules Red ferrule is positive **ENVIRONMENTAL SPECIFICATIONS** 14° to 131°F (-10° to +55°C) **Operating Temperature:** -40° to 158°F (-40° to +70°C) Storage Temperature: Ô Non-operating: 0 to 12,000 m Operating: 0 to 2000 m **Operating Relative Humidity:** 10 to 35°C 85% RH (without roll-off above 35°C) Influence of Temperature: \leq 150 ppm/°K, or 0.15% of mV output per 10°K \leq 0.2% of mV output per 10°K @ 18°C to 28°C Influence of Humidity (10 to 90% RH): 2.00" (51mm) SAFETY SPECIFICATIONS **Electrical:** 盟 Double insulation or reinforced insulation between the primary or secondary and the outer case of the handle conforms to IEC 1010-2-32. 600V Cat. III, Pollution Degree 2 1.18

The CT-253 probe is the latest in compact AC Current probes. Designed to meet the most stringent demands in industry and electrical contracting, while also meeting the latest safety and performance standards.

Dielectric Strength: 4 5550V, 50/60 Hz between primary, secondary and the outer case of the handle

ORDERING INFORMATION

Item: AC Current Transducer CT-253 (225A)

Cat#: 35-0048

ACR Systems Inc Toll-Free: 1.800.663.7845 Tel: 1.604.591.1128 sales@acrsvstems.com

www.acrsystems.com ISO 9001 Certified ISO9000\SPECIFICATIONS\CT-253.pdf (30mm)