This unregulated Transformer Rectifier Unit (TRU) converts 115 VAC 3 phase 400 Hz into 28 Vdc and can deliver up to 125 amps of power. It has been successfully in use in a commercial helicopter application since 2008.

The well established, fan cooled design meets RTCA/DO-160D and has an MTBF of over 125,000 hours.

This TRU is one of many that Crane Aerospace & Electronics provides as the world’s leading supplier of TRUs and Auto-Transformer Rectifier Units for commercial aircraft. We offer field proven, exceptionally reliable power solutions for both commercial aerospace and military applications.
# PERFORMANCE DATA

## INPUT

- **Input Voltage:** 115/200 VAC, 3 phase
- **Input Frequency:** 400-440 Hz
- **Power Factor:** >95% (50-100% load)
- **Efficiency:** >87% (50-100% load)

## OUTPUT

- **Output Voltage:** 28 Vdc (unregulated)
- **Output Current:** 125 Amps
- **Output Ripple:** <1.5 Vp-p maximum
- **Overload Rating:**
  - 187A (150%) for 5 minutes
  - 312A (250%) for 1 minute
  - 625A (500%) for 1 second

## INTERFACE

- **Dimensions (L x W x H):**
  - Length: 10.72 inches
  - Width: 5.05 inches
  - Height: 5.05 inches
- **Weight:** 10.42 lbs (4.72kg) (max)
- **Cooling:** Internal Fan
- **Connections:**
  - Input (J1): D38999/20WD5AN
  - Output (TB1): MS25044-1, 2X ¼-28 UNF-2A Thread

## ENVIRONMENTAL (continued)

- **Vibration:** RTCA/DO-160D, Section 8, Category U
- **Explosion Proofness:** RTCA/DO-160D, Section 9, Environmental II, Category E
- **Waterproofness (Rain):** RTCA/DO-160D, Section 10, Category W
- **Fluid Susceptibility:** RTCA/DO-160D, Section 11, Category F
- **Sand and Dust:** RTCA/DO-160D, Section 12, Category D
- **Fungus Resistance:** RTCA/DO-160D, Section 13, Category F
- **Salt Spray:** RTCA/DO-160D, Section 14, Category S
- **Magnetic Effect:** RTCA/DO-160D, Section 15, Class A
- **Voltage Spike:** RTCA/DO-160D, Section 17, Category A
- **Audio Frequency Conducted Susceptibility - Power Inputs:** RTCA/DO-160D, Section 18, Category Z
- **Induced Signal Susceptibility (HIRF):** RTCA/DO-160D, Section 19, Category C
- **Radio Frequency Susceptibility:** RTCA/DO-160D, Section 20, Category YYP
- **Emission of Radio Frequency Energy:** RTCA/DO-160D, Section 21, Category H
- **Lightning Direct Effects:** RTCA/DO-160D, Section 22, Category A3C3
- **Electrostatic Discharge (ESD):** RTCA/DO-160D, Section 25, Category A
- **MTBF:** 125,000 operating hours in a pressurized aircraft protected environment.
- **Design Life:** > 20 years

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