

Universal Mount Series

Test Report: 09-145

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Product: UPSS-500 (5/8" Stud) (N5019&N5020)
Type Test: ANSI C119. 6 Class A - Heavy Duty Test
Method CCT - Current Cycle Test

Test Facility: **UTILCO** - 4730 Madison Road, Cincinnati, Ohio 45227

Tested By: Bryan Donell Date: 12-Oct-09

Supervisor: Robert Westbrook Date: 1/19/2010

Reviewed By: Don Smiley Date: 1/20/2010

Purpose:

Test The UPSS-500 (5/8" Stud) (N5019&N5020) to ANSI C119-6 Class-A - Heavy Duty Test

The test current used was 564 amperes.

Current On/Off Time **1.5** Hours

Installation:

The UPSS-500 (5/8" Stud) (N5019&N5020) Connector was tested using Aluminum conductors and were wire brushed with DE-OX V applied.
Wire Size Used for testing **(1)350 kcmil Bare Aluminum Cable(s)**
The 5/16 inch internal Hex screw

240	In-lbs
240	in-lbs

 using a calibrated Stud Locking screw Torque

240	in-lbs
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 torque wrench

Test Loop:

The tests loop was run vertically using properly sized Copper plates as equalizers as noted on the loop diagram. Each vertical leg consisted of two samples with a copper stud between them. Thermocouples were peened in place for temperature measurements utilizing Lab View equipment and software program developed by ILSCO.

Procedure:

Four UPSS-500 (5/8" Stud) (N5019&N5020) were assembled with a copper stud as the main feeder using (1)350 kcmil Bare Aluminum Cable(s)
During the heat cycle testing the LabView system recorded temperature data. The resistance measurements were taken by a calibrated mico-ohm meter and recorded as specified in ANSI C119.6

Results:

The connector temperatures did not exceed the temperature of the control conductor, stability was within +/- 10 and the resistance of the connections did not exceed ± 5% of the average resistance.
The maximum stability value **9.3**
The Max Connector Temp was **89.0**
UTILCO's UPSS-500 (5/8" Stud) (N5019&N5020) Connector successfully completed the ANSI Heat Cycle test





