



Test Report



Date 21/07/16

TR 05673

Powersafe Sequential
Drain Box
Appliance Inlet
800A

Operator: D.Maclachlan

This report is the property of Phase 3 Connectors Ltd and must not, without their written consent, be passed on, copied or used for any other purpose.

Type and description of test Powersafe Sequential Coupler (Drain). Direct resistance with 800 Amps.



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|--|----------------------|---|------|----------|
|  | <h1>Test Report</h1> |  | Date | 21/07/16 |
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Type and description of test

Powersafe Sequential Coupler (Drain) Direct resistance current cable 300mm², with a current of 800A

Object

The object of this test is to detail a standard test method to assess the current – carrying capacity of electromechanical components.

Test method

A specified test current shall be applied to the contacts of the specimen for a period of 5 hours. Or until equilibrium is reached.

Requirements

Every contact of the specimen must be capable of carrying the specified test current for a period of 5 hours without exceeding the specified temperature rise.

Test Items

Powersafe Drain sequential box PD5-E

Powersafe C300 Line Source connector terminated on HO7RN-F-1C-300mm cable

| Instrument | Description s/n | Expiry calibration |
|---------------------------------|---|--------------------|
| Current generation | T & R PCU1 Mk3 P.C.I.T.S. (21TE0216) | 20/01//2017 |
| External Load Unit | 3000A Loading Unit | 20/01/2017 |
| YF-160A Thermocoupler +3 probes | 060300489 | 04/02/2017 |

Recorded Results

| Probe position | Temperature ° C Cable 240mmq | T (T measured – T ambient) |
|-----------------|---------------------------------|-------------------------------|
| Ambient | 15.5 | / |
| Rear terminal | 80.7 | 65.2 |
| Insulator | 48.5 | 33.0 |
| Cable conductor | 91.4 | 75.9 |

Maximum Allowable Temperature = 125 C

Maximum Recorder Temperature = 91.4 C less ambient = 75.9 C

Conclusion: Temperature Rise within BS EN 61984 -2009 and VDE allowable limits. PASS Probe Proof Conforms to IEC 60309-1

Voltage Identification In Accordance with IEC 60309-2

Conforms as an "Appliance Inlet" to IEC 60309-1