



**PHASE 3**  
CONNECTORS

## TEST REPORT

Powersafe Sequential Box (Drain)  
Appliance Inlet 800A  
**Operator: D. Maclachlan**  
Date: 21/07/16  
TR 05673

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### Test Type

Powersafe Sequential Box (Drain) Direct resistance current cable 300mm<sup>2</sup>, 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 Source Connector terminated on HO7RN-F-1C-300mm cable

Instrument	Description	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	T (measured –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

