

**Test Certificate of** Verification of conformity to the manufacturing drawings and to characteristics of the circuit-breaker  
 Mechanical operation  
 Dielectric tests  
 Temperature-rise test  
 Verification of the adjustment of the relays and releases  
 Electrical endurance  
 Mechanical endurance  
 Verification of the making and breaking capacity in short-circuit conditions  
 Search of critical currents and low current test duty

**Apparatus** D.C. circuit breaker

**Designation** UR46-82 S

Rated voltage ( $U_{Nc}$ ) 1800 V ; Rated insulation voltage ( $U_{im}$ ) 3000 V;  
 Conventional thermal current ( $I_{th}$ ,  $I_{the}$ ) 4600 A

**Manufacturer** SECHERON S.A.

**Tested for** SECHERON S.A. – GENEVE (Switzerland)

**Date(s) of tests** **from** July 5, 2007 **to** October 14, 2007

**Tested by** CESI S.p.A. – Milano – ITALY

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in the reference documents, identified in this certificate, has been subjected to the series of proving tests in accordance with

**CEI EN 61997-2 (2001-03)**  
 Sub-clauses 8.3.1, 8.3.2, 8.3.3, 8.3.4, 8.3.5, 8.3.6, 8.3.7, 8.3.8, 8.3.10

This Test Certificate has been issued by CESI in accordance with above mentioned Standards.

The results are shown in the record of Proving Tests and the oscillograms attached in the Test Reports. The values obtained and the general performance are considered to comply with the above Standards and to justify the ratings assigned by the Manufacturer as listed on page No.2 .

The Certificate applies only to the apparatus tested. The responsibility for conformity of any apparatus having the same designations with that tested rests with the Manufacturer.

Only integral reproduction of this Certificate, or reproductions of this page accompanied by any pages on which are stated the endorsed ratings of the apparatus tested, are permitted without written permission from CESI.

**No. of pages** 3

**Issue date** March 7, 2008

**Prepared** Unit LABORATORIES - F. Pizzi

**Approved** Area COMPONENTS - V. Scarioni

**CESI S.p.A.**  
 Energy Division  
 Technical Area Components  
 "Testing Laboratories"  
 Manager



PUBBLICATO A8007131 (PAD - 1028248)