





TYPE TEST CERTIFICATE

APPROVED

B1038194

FGH

Type Test Certificate of Complete type test

Apparatus Toughened glass cap & pin insulator units for a.c. systems

Designation E-160GDZ-146

Mechanical failing load: 160 kN

Wet power frequency withstand voltage (for a short string of 5 units): 295 kV Dry lightning impulse withstand voltage (for a short string of 5 units); 880 kV

Manufacturer SGD LA GRANJA VIDRIERIA S.L.

Paseo del Pocillo s/n 40100 Granja, Spain

Client SGD LA GRANJA VIDRIERIA S.L.

Paseo del Pocillo s/n 40100 Granja, Spain

Tested by CESI S.p.A: Milan, Italy

Tests date from September 28, 2010

😯 Octobe 12, 2010

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

IEC 60383-1: 1993 Clauses 13, 14, 17, 19, 20

This Type Test Certificate has been issued by CESI in accordance with above mentioned Standard(s).

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 Standard(s) and to justify the ratings assigned by the Manufacturer as listed on page No. 3.

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.

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No. of pages annexed

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Prepared PPR - Beccarini Pierangelo

Verified PPR - Arneodo Giorgio, TPI - Sironi Alberto

December 12, 2011

Approved PMI - The Manager - Arcidiaco Lorenzo

CESI s.p.A.

Testing & Certification Division Testing Operations Area "Milan Platform"

Managereliae

CESI S.p.A.

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Issue date

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