

Test Report



Testing &
Certification
Australia

Number 102642

Apparatus A 415 V/690 V/ 6 kV (Ue/Ui/Uimp), 50 Hz, three-phase horizontal and neutral busbars of a switchgear and controlgear assembly.

Designation Prototype Type Test No. 1 80 kA for 1 sec 5000 Amp
Prototype Type Test No. 2 100 kA for 1 sec 6300 Amp
Prototype Type Test No. 3 100 kA for 3 sec 6300 Amp

Manufacturer Price Trandos Engineering Pty. Ltd.
11 Agett Road, Malaga, Perth, Western Australia, 6090

Client Price Trandos Engineering Pty. Ltd.
11 Agett Road, Malaga, Perth, Western Australia, 6090

Dates of Tests 22 and 23 June 2009

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this Test Report has been tested in accordance with:

Australian Standard 3439.1 : 2002 Clauses 8.2.2 and 8.2.3

Tests

Verification of dielectric properties (8.2.2)

Rated insulation voltage of main circuits : 690 V
Rated impulse withstand voltage of the main circuits : 6 kV

Short-circuit withstand strength (Clause 8.2.3)

Rated peak and short-time withstand current (Clause 8.2.3.2.3 b)

Main horizontal busbars (2 - 4 x 100 mm x 6.3 mm) : 100 kA rms for 3 s, 220 kA peak & 100 kA rms for 1 s, 220 kA peak
Main horizontal busbars (4 x 100 mm x 6.3 mm) : 80 kA rms for 1 s, 176 kA peak

Rated peak and short-time withstand current (Clause 8.2.3.2.3 d)

Main horizontal neutral busbar (4 x 100 mm x 6.3 mm) : 60 kA rms for 3 s, 132 kA peak & 60 kA rms for 1 s, 132 kA peak & 48 kA rms for 1 s, 101 kA peak

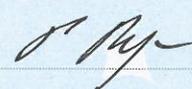
Conclusion

The assembly withstood the tests in accordance with the standard.

This Test Report 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 reproduction of this entire document is permitted without written permission from Testing & Certification Australia, 18 Mars Road, Lane Cove, NSW, 2066, Australia.
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This Test Report comprises 14 pages, 1 diagram, 6 oscillograms, 18 photographs and 3 drawings

 A. J. McClelland
NATA Signatory

 Manager - TCA

27 July 2009 Date of Issue



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