

Type test Certificate of short-circuit performance

Tusco Trafo Co., Ltd.

Samuthprakarn, Thailand

has successfully passed the type test sequence on an

Oil-immersed outdoor power transformer

Type: 20 MVA

Rating: 20 MVA – 33 kV - 7 + 8 x 1,33% / 11,5 kV – Dyn1 – 50 Hz

The test object passed the specification of test duties of

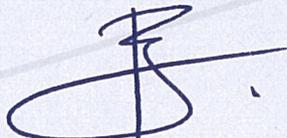
IEC 60076-5

The test results are recorded in Certificate No.

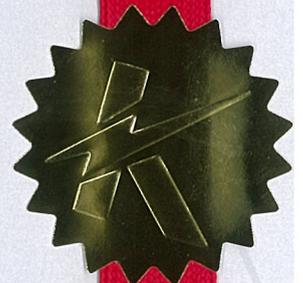
37-09

This Certificate is issued on 14 July 2009

KEMA Nederland B.V.



P.G.A. Bus
KEMA T&D Testing Services
Managing Director



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Please note that this document has been issued for information purposes only, and that the original bound and sealed paper copy of the Certificate including the results of the tests of the apparatus will prevail. This document does not imply that KEMA has certified or approved any apparatus other than the specimen tested.

TYPE TEST CERTIFICATE OF SHORT-CIRCUIT PERFORMANCE

APPARATUS A three-phase oil-immersed outdoor power transformer

DESIGNATION 20 MVA **SERIAL No.** 505015

Rated power	20 MVA
Rated voltage	33 kV - 7 + 8 x 1,33% / 11,5 kV
Connection symbol	Dyn1
Rated frequency	50 Hz

MANUFACTURER Tusco Trafo Co., Ltd.,
Samuthprakarn, Thailand

TESTED FOR Tusco Trafo Co., Ltd.,
Samuthprakarn, Thailand

TESTED BY KEMA HIGH-POWER LABORATORY
Utrechtseweg 310 - 6812 AR Arnhem - The Netherlands

DATE(S) OF TESTS 1 April, 29 June to 4 July 2009

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

IEC 60076-5

The results are shown in the record of Proving Tests and the oscillograms attached hereto. The values obtained and the general performance are considered to comply with the above Standard with respect to the dynamic ability to withstand short-circuits.

This 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.

This Certificate consists of 42 sheets in total.

This Certificate falls under the scope of the accreditation certificates L 020 and L 218 of the Dutch Council for Accreditation. See information sheet (page 2).

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KEMA Nederland B.V.



P. G. A. Bus
KEMA T&D Testing Services
Managing Director

Arnhem, 14 July 2009