

METAL MAHFAZALI MODÜLER HÜCRELER

Eltes
 Electric

ICMET Tip Testleri

Romanya-ICMET



RESEARCH-DEVELOPMENT AND TESTING NATIONAL
INSTITUTE FOR ELECTRICAL ENGINEERING

ICMET CRAIOVA ROMANIA

"Ovidiu Rarinca" HIGH POWER LABORATORY- LMP
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E-mail: imp@icmet.ro

INCERCARE



TEST REPORT No. 9426 / May 23, 2005

SR EN ISO / CEI 17025 : 2001
CERTIFICAT DE ACREDITARE
Nr. 034 - L

Tested product: 36 kV, 16 kA Earthing Switch
Test: Short-circuit making current test
Test method: According to IEC 60265-1/1998, clause 6.101.8.5 and Table 5
Test purpose: Quality certification
Test date: May 23, 2005
Test result: Passed the test successfully

Head of LMP:
Dr. Eng. George Curcanu



Responsible for quality assurance:
Eng. Constantin Ilinca



Responsible for test group:
Eng. Constantin Iancu

Responsible for test:
Eng. Ilie Sborna

Test witness: Mr. Salih ÇIRIKA from ELTES ELEKTRİK LTD. ŞTI - Turkey

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P101-01ac

Topraklayıcı-Kısa devre testi



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E-mail: lmp@icmet.ro

INCERCARE



TEST REPORT No. 9438 / June 23, 2005

SR EN ISO / CEI 17025 : 2001
CERTIFICAT DE ACREDITARE

Tested product: Prefabricated Concrete Housing Transformer Substation with Nr. C04 - L
Modular Metal Enclosed Switchgear

Test: Short-time withstand current and peak withstand current tests

Test method: According to IEC 61330 / 1995, clause 6.3

Test purpose: Quality certification

Test date: June 23, 2005

Test result: Passed the test successfully

Head of LMP:
Dr. Eng. George Curcanu

Responsible for quality assurance:
Eng. Constantin Ilinca

Responsible for test group:
Eng. Constantin Iancu



Responsible for test:
Eng. Florin Alin Dinca

Test witness: Mr. Salih ÇIRIKA from ELTES Elektrik - Turkey

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P101-01ae

Modüler Hücreli Beton Köşk-Kısa süre ve darbe dayanım testi



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E-mail: Imp@icmet.ro



TEST REPORT No. 9439 / June 23, 2005

SR EN ISO / CEI 17025 : 2001
CERTIFICAT DE ACREDITARE
Nr.004 - L

Tested product: Prefabricated Concrete Housing Transformer Substation with Modular Metal Enclosed Switchgear

Test: Internal arc test

Test method: According to IEC 61330 / 1995, Annex A

Test purpose: Quality certification

Test date: June 23, 2005

Test result: Passed the test successfully

Head of LMP:
Dr. Eng. George Curcanu

Responsible for quality assurance:
Eng. Constantin Ilinca

Responsible for test group:
Eng. Constantin Iancu



Responsible for test:
Eng. Ilie Sbora

Test witness: Mr. Salih ÇIRIKA from ELTES Elektrik - Turkey

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Modüler Hücreli Beton Köşk-İç ark testi



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TEST REPORT
No. 9381 / March 21, 2005

SR EN ISO / CEI 17025:2001
CERTIFICAT DE ACREDITARE
Nr.004 - L

Tested product: 36 kV / 630 A Incoming and Outgoing Cubicle with SF6 Load Break Switch
Test: Short-time withstand current and peak withstand current test
Test method: According to IEC 62271-200/2003, clause 6.6
Test purpose: Quality certification
Test date: March 21st, 2005
Test result: Passed the tests successfully

Head of LMP:
Dr. Eng. George Curcanu

Responsible for quality assurance:
Eng. Constantin Ilinca

Responsible for test group:
Eng. Constantin Iancu



Responsible for test:
Eng. Ilie Sbora
Eng. Florin Alin Dinca

Test witnesses: Mr. Salih CIRIKA and Mr. Deniz SEVGIN
from ELTES ELEKTRIK MAKINA INŞAAT SAN. VE. TIC. LTD. ŞTI

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P101-01ae

SF6 Yük Ayırıcılı Giriş Çıkış Hücresi-
Kısa süre ve darbe dayanım testi



RESEARCH-DEVELOPMENT AND TESTING NATIONAL
INSTITUTE FOR ELECTRICAL ENGINEERING

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E-mail: lmp@icmet.ro

INCERCARE



TEST REPORT

No. 9383 / March 22, 2005

SR EN ISO / CEI 17025:2001
CERTIFICAT DE ACREDITARE
Nr.004 - L

Tested product: 36 kV / 630 A Feeding Transformer Cubicle with SF6 Load Break Switch and Fuse

Test: Short-time withstand current and peak withstand current test

Test method: According to IEC 62271-200/2003, clause 6.6

Test purpose: Quality certification

Test date: March 22nd, 2005

Test result: Passed the tests successfully

Head of LMP:
Dr. Eng. George Curcanu

Responsible for quality assurance:
Eng. Constantin Ilinca

Responsible for test group:
Eng. Constantin Iancu



Responsible for test:
Eng. Ilie Sboru
Eng. Florin Alin Dinea

Test witness: Mr. Salih CIRIKA and Mr. Deniz SEVGIN
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SF6 Yk Ayırıcılı ve Sigorta Korunmalı Trafo Besleme Hcresi
Kısa sre ve darbe dayanım testi



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TEST REPORT
No. 9384 / March 22, 2005

SR EN ISO/CEI 17025:2001
CERTIFICAT DE ACREDITARE
Nr.034 -L

Tested product: 36 kV / 630 A Incoming and Outgoing Cubicle with SF6 Load Break Switch
Test: Internal arc test
Test method: According to IEC 62271-200/2003, Annex A
Test purpose: Quality certification
Test date: March 22, 2005
Test result: Passed the test successfully

Head of LMP:
Dr. Eng. George Curcanu



Responsible for quality assurance:
Eng. Constantin Ilinca



Responsible for test group:
Eng. Constantin Iancu

Responsible for test:
Eng. Ilie Sboru

Test witness: Mr. Salih ÇIRIKA and Mr. Deniz SEVGİN
from ELTES ELEKTRİK MAKİNA İNŞAAT SAN. VE. TİC. LTD. ŞTİ

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SF6 Yük Ayırıcılı Giriş-Çıkış Hücresi
İç ark testi



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INCERCARE



TEST REPORT

No. 9388 / March 23, 2005

SR EN ISO/CEI 17025:2001
CERTIFICAT DE ACREDITARE
Nr.004 -L

Tested product: 36 kV / 630 A Incoming and Outgoing Cubicle with Circuit Breaker
Test: Short-time withstand current and peak withstand current test
Test method: According to IEC 62271-200/2003, clause 6.6
Test purpose: Quality certification
Test date: March 23rd, 2005
Test result: Passed the tests successfully

Head of LMP: Dr. Eng. George Curcanu
Responsible for quality assurance: Eng. Constantin Ilinca
Responsible for test group: Eng. Constantin Iancu



Responsible for test:
Eng. Corneliu Comes

Test witness: Mr. Salih CIRIKA and Mr. Deniz SEVGIN
from ELTES ELEKTRIK MAKINA INŞAAT SAN. VE. TIC. LTD. ŞTI

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SF6 Kesicili Giriş-Çıkış Hücresi
Kısa süre ve darbe dayanım testi



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E-mail: lmp@icmet.ro



TEST REPORT No. 9389 / March 23, 2005

SR EN ISO / CEI 17025 : 2001
CERTIFICAT DE ACREDITARE
Nr.004 - L

Tested product: 36 kV / 630 A Voltage Measuring Cubicle with Rotary Isolating Switch
Test: Short-time withstand current and peak withstand current test
Test method: According to IEC 62271-200/2003, clause 6.6
Test purpose: Quality certification
Test date: March 23rd, 2005
Test result: Passed the test successfully

Head of LMP:
Dr. Eng. George Curcanu

Responsible for quality assurance:
Eng. Constantin Ilinca

Responsible for test group:
Eng. Constantin Iancu



Responsible for test:
Eng. Corneliu Comes

Test witness: Mr. Salih ÇIRIKA and Mr. Deniz SEVGİN
from ELTES ELEKTRİK MAKİNA İNŞAAT SAN. VE. TIC. LTD. ŞTİ

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Döner Ayırıcılı Gerilim Ölçü Hücresi
Kısa süre ve darbe dayanım testi



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E-mail: lmp@icmet.ro



TEST REPORT No. 9390 / March 23, 2005

SR EN ISO / CEI 17025:2001
CERTIFICAT DE ACREDITARE
Nr.004 -L

Tested product: 36 kV / 630 A Current-Voltage Measuring Cubicle with SF6 Load Break Switch

Test: Short-time withstand current and peak withstand current test

Test method: According to IEC 62271-200/2003, clause 6.6

Test purpose: Quality certification

Test date: March 23rd, 2005

Test result: Passed the tests successfully

Head of LMP:
Dr. Eng. George Curcanu

Responsible for quality assurance:
Eng. Constantin Ilinca

Responsible for test group:
Eng. Constantin Iancu



Responsible for test:
Eng. Ilie Sboru

Eng. Florin Alin Dinca

Test witness: Mr. Salih CIRIKA and Mr. Deniz SEVGIN
from ELTES ELEKTRIK MAKINA INŞAAT SAN. VE. TIC. LTD. ŞTI

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E-mail: lmp@icmet.ro

INCERCARE



TEST REPORT No. 9391 / March 24, 2005

SR EN ISO / CEI 17025 : 2001
CERTIFICAT DE ACREDITARE
Nr.004 - 01

Tested product: 36 kV / 630 A Incoming and Outgoing Cubicle with Circuit Breaker
Test: Internal arc test
Test method: According to IEC 62271-200/2003, Annex A
Test purpose: Quality certification
Test date: March 24, 2005
Test result: Passed the test successfully

Head of LMP:
Dr. Eng. George Curcanu



Responsible for quality assurance:
Eng. Constantin Ilinca



Responsible for test group:
Eng. Constantin Iancu

Responsible for test:
Eng. Ilie Sboru

Test witness: Mr. Salih ÇIRIKA and Mr. Deniz SEVGİN
from ELTES ELEKTRİK MAKİNA İNŞAAT SAN. VE. TIC. LTD. ŞTİ

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SF6 Yük Ayırıcılı Akım-Gerilim Ölçü Hücresi
Kısa süre ve darbe dayanım testi



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TEST REPORT
No. 9392 / March 24, 2005

SR EN ISO / CEI 17025 : 2001
CERTIFICAT DE ACREDITARE
Nr.004 - L

Tested product: 36 kV / 630 A Current-Voltage Measuring Cubicle with
SF6 Load Break Switch

Test: Internal arc test

Test method: According to IEC 62271-200/2003, Annex A

Test purpose: Quality certification

Test date: March 24, 2005

Test result: Passed the test successfully

Head of LMP:
Dr. Eng. George Curcanu



Responsible for quality assurance:
Eng. Constantin Ilinca



Responsible for test group:
Eng. Constantin Iancu

Responsible for test:
Eng. Ilie Sborna

Test witness: Mr. Salih ÇIRIKA and Mr. Deniz SEVGİN
from ELTES ELEKTRİK MAKİNA İNŞAAT SAN. VE. TIC. LTD. ŞTİ

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SF6 Kesicili Giriş-Çıkış Hücresi
İç ark testi



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E-mail: lmp@icmet.ro

INCERCARE



TEST REPORT
No. 9393 / March 24, 2005

SR EN ISO / CEI 17025 : 2001
CERTIFICAT DE ACREDITARE
Nr.004 -L

Tested product: 36 kV / 630 A Voltage Measuring Cubicle with Rotary Isolating Switch
Test: Internal arc test
Test method: According to IEC 62271-200/2003, Annex A
Test purpose: Quality certification
Test date: March 24, 2005
Test result: Passed the test successfully

Head of LMP:
Dr. Eng. George Curcanu



Responsible for quality assurance:
Eng. Constantin Ilinca



Responsible for test group:
Eng. Constantin Iancu

Responsible for test:
Eng. Ilie Sborna

Test witness: Mr. Salih ÇIRIKA and Mr. Deniz SEVGİN
from ELTES ELEKTRİK MAKİNA İNŞAAT SAN. VE. TIC. LTD. ŞTİ

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SF6 Yük Ayırıcılı Akım-Gerilim Ölçü Hücresi
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E-mail: lmp@icmet.ro



TEST REPORT
No. 9394 / March 25, 2005

SR EN ISO / CEI 17025 : 2001
CERTIFICAT DE ACREDITARE
Nr.034 -L

Tested product: 1000 KVA LV Distribution Panel Busbars
Test: Verification of short-circuit withstand strength
Test method: According to IEC 60439-1/1999, subclause 8.2.3
Test purpose: Quality certification
Test date: March 25th, 2005
Test result: Passed the test successfully

Head of LMP:
Dr. Eng. George Curcanu

Responsible for quality assurance:
Eng. Constantin Ilinca

Responsible for test group:
Eng. Constantin Iancu



Responsible for test:
Eng. Ilie Sbora

Eng. Florin Alin Dincă

Test witnesses: Mr. Salih CIRIKA and Mr. Deniz SEVGİN
from ELTES ELEKTRIK MAKINA İNŞAAT SAN. VE. TIC. LTD. ŞTI

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Döner Ayırıcılı Giriş-Çıkış Hücresi
İç ark testi



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INCERCARE



SR EN ISO/CEI 17025:2001
CERTIFICAT DE ACREDITARE
Nr. 004 - L

**TEST REPORT
No. 9820 / February 13, 2007**

Tested product: 36 kV, 1600 kVA Monoblok concrete transformer substation

Test: Internal arc test

Test method: According to IEC 62271-202/2006, Annex A for medium voltage cubicles
IEC 61641/1996 for low voltage panel

Test date: February 13, 14, 2007

Test result: Passed the test successfully

Head of LMP:
Dr. Eng. George Curcanu

Responsible for quality assurance:
Eng. Constantin Ilinca

Responsible for test group:
Eng. Constantin Iancu



Responsible for test:
Eng. Ilie Sboru
Eng. Alin Dinca

Test witness: Mr. Deniz SEVGIN from ELTES ELEKTRIK MAKINA INŞAAT SAN.
VE. TIC. LTD. ŞTI
Mr. Kerim Ertan from ORMAZABAL

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**Düşük Gerilim Dağıtım Panosu
Kısa devre dayanım testi**



RESEARCH-DEVELOPMENT AND TESTING NATIONAL
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E-mail: lmp@icmet.ro

INCERCARE



SR EN ISO/CEI 17025:2001
CERTIFICAT DE ACREDITARE
Nr. 004 - L

**TEST REPORT
No. 9824 / February 15, 2007**

Tested product: 36 kV / 630 A Feeding transformers cubicle with SF6 load break switch and fuse

Test: Internal arc test

Test method: According to IEC 62271-200/2003, Annex A

Test date: February 15, 2007

Test result: Passed the test successfully

Head of LMP:
Dr. Eng. George Curcanu

Responsible for quality assurance:
Eng. Constantin Ilinca

Responsible for test group:
Eng. Constantin Iancu



Responsible for test:
Eng. Ilie Sboru

Test witness: Mr. Deniz SEVGİN, Mr. Vasif OZÇELİK, and Mr. Özkan CAN
from ELTES ELEKTRİK MAKİNA İNŞAAT SAN. VE. TIC. LTD. ŞTİ

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**Düşük Gerilim Baks Tipi Dağıtım Panosu
Kısa Devre Dayanım Testi**



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INSTITUTE FOR ELECTRICAL ENGINEERING

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ROMANIA

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200515-CRAIOVA Calea Bucuresti Nr. 144 ROMANIA
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E-mail: lmp@icmet.ro

INCERCARE



SR EN ISO/CEI 17025:2001
CERTIFICAT DE ACREDITARE
Nr. 004 - L

TEST REPORT
No. 9825 / February 15, 2007

Tested product: 36 kV / 630 A Incoming and outgoing cubicle with SF6 load break switch

Test: Internal arc test

Test method: According to IEC 62271-200/2003, Annex A

Test date: February 15, 2007

Test result: Passed the test successfully

Head of LMP:
Dr. Eng. George Curcanu

Responsible for quality assurance:
Eng. Constantin Ilinca

Responsible for test group:
Eng. Constantin Iancu



Responsible for test:
Eng. Ilie Sboru

Test witness: Mr. Deniz SEVGİN, Mr. Vasif OZÇELİK, and Mr. Özkan CAN
from ELTES ELEKTRİK MAKİNA İNŞAAT SAN. VE. TIC. LTD. ŞTİ

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P101-01ae

SF6 Yük Ayırıcılı ve Sigorta Korumalı Trafo Besleme Hücresi
İç ark testi



RESEARCH-DEVELOPMENT AND TESTING NATIONAL
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TEST REPORT
No. 9395 / March 25, 2005

SR EN ISO / CEI 17025 : 2001
CERTIFICAT DE ACREDITARE
Nr.004 -L

Tested product: LV Distribution Panel Box Busbars
Test: Verification of short-circuit withstand strength
Test method: According to IEC 60439-1/1999, subclause 8.2.3
Test purpose: Quality certification
Test date: March 25th, 2005
Test result: Passed the test successfully

Head of LMP:
Dr. Eng. George Curcanu

Responsible for quality assurance:
Eng. Constantin Ilinca

Responsible for test group:
Eng. Constantin Iancu



Responsible for test:
Eng. Ilie Sboara

Eng. Florin Alin Dincă

Test witnesses: Mr. Salih CIRIKA and Mr. Deniz SEVGIN
from ELTES ELEKTRIK MAKINA INŞAAT SAN. VE. TIC. LTD. ŞTI

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TEST REPORT
No. 9397 / March 28, 2005

SR EN ISO / CEI 17025 : 2001
CERTIFICAT DE ACREDITARE
Nr.034 -L

Tested product: 36 kV / 630 A Feeding Transformer Cubicle with SF6 Load Break Switch and Fuse

Test: Internal arc test

Test method: According to IEC 62271-200/2003, Annex A

Test purpose: Quality certification

Test date: March 28, 2005

Test result: Passed the test successfully

Head of LMP:
Dr. Eng. George Curcanu



Responsible for quality assurance:
Eng. Constantin Ilinca



Responsible for test group:
Eng. Constantin Iancu

Responsible for test:
Eng. Ilie Sboru

Test witness: Mr. Salih ÇIRIKA and Mr. Deniz SEVGİN
from ELTES ELEKTRİK MAKİNA İNŞAAT SAN. VE. TIC. LTD. ŞTİ

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P101-01ac

Schneider Yük Ayırıcılı, Sigortalı Trafo Koruma Hücresi
İç Ark Testi



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TEST REPORT
No. 9821 / February 13, 2006

Tested product: 36 kV, 630 A Incoming and outgoing cubicle with circuit breaker
36 kV, 630 A Feeding transformers cubicle with SF6 load break switch and fuse

Test: Short-time withstand current and peak withstand current test

Test method: According to IEC 62271-200/2003 clause 6.6.

Test date: February 13, 2007

Test result: Passed the test.

Head of LMP:
Dr. Eng. George Curcanu

Responsible for quality assurance:
Eng. Constantin Ilinca

Responsible for test group:
Eng. Constantin Iancu



Responsibles for test:
Eng. Mihai Constantinov

Test witness: Mr. M. Deniz SEVGİN from ELTES ELEKTRİK - Turkey

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P101-01ae

**Schneider Yük Ayırıcılı Giriş-Çıkış Hücresi
İç Ark Testi**



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E-mail: lmp@icmet.ro



TEST REPORT
No. 9822 / February 14, 2006

Tested product: 36 kV, 630 A Incoming and outgoing cubicle with SF6 load break switch
36 kV, 630 A Current-voltage measuring cubicle with SF6 load break switch

Test: Short-time withstand current and peak withstand current test

Test method: According to IEC 62271-200/2003 clause 6.6.

Test date: February 14, 2007

Test result: Passed the test.

Head of LMP:
Dr. Eng. George Curcanu

Responsible for quality assurance:
Eng. Constantin Ilinca

Responsible for test group:
Eng. Constantin Iancu



Responsibles for test:
Eng. Florin Alin Dincă

Test witness: Mr. M. Deniz SEVGIN from ELTES ELEKTRIK - Turkey

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- i. Schneider Kesicili Giriş-Çıkış Hücresi
- ii. Schneider Yük Ayırıcılı, Sigortalı Trafo Koruma Hücresi
Kısa Süre ve Darbe Dayanım Testi



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SR EN ISO/CEI 17025:2001
CERTIFICAT DE ACREDITARE
Nr. 004 - L

TEST REPORT
No. 9823 / February 15, 2007

Tested product: 36 kV / 630 A Incoming and outgoing cubicle with circuit breaker

Test: Internal arc test

Test method: According to IEC 62271-200/2003, Annex A

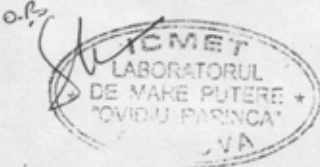
Test date: February 15, 2007

Test result: Passed the test successfully

Head of LMP:
Dr. Eng. George Curcanu

Responsible for quality assurance:
Eng. Constantin Ilinca

Responsible for test group:
Eng. Constantin Iancu



Responsible for test:
Eng. Ilie Sboru

Test witness: Mr. Deniz SEVGİN, Mr. Vasif OZÇELİK, and Mr. Özkan CAN
from ELTES ELEKTRİK MAKİNA İNŞAAT SAN. VE. TIC. LTD. ŞTİ

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- i. Schneider Yük Ayırıcılı Giriş-Çıkış Hücresi
 - ii. Schneider Yük Ayırıcılı Akım-Gerilim Ölçü Hücresi
- Kısa Süre ve Dabe Dayanım Testi



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Nr. 004 - L

TEST REPORT
No. 9826 / February 15, 2007

Tested product: 36 kV / 630 A Current - voltage measuring cubicle with SF6 load break switch

Test: Internal arc test

Test method: According to IEC 62271-200/2003, Annex A

Test date: February 15, 2007

Test result: Passed the test successfully

Head of LMP:
Dr. Eng. George Curcanu

Responsible for quality assurance:
Eng. Constantin Ilinca

Responsible for test group:
Eng. Constantin Iancu



Responsible for test:
Eng. Ilie Sboru

Test witness: Mr. Deniz SEVGİN, Mr. Vasif OZÇELİK, and Mr. Özkan CAN
from ELTES ELEKTRİK MAKİNA İNŞAAT SAN. VE. TIC. LTD. ŞTİ

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Schneider Yük Ayırıcılı Akım-Gerilim Ölçü Hücresi
İç Ark Testi