



財團法人全國認證基金會
Taiwan Accreditation Foundation

認 證 證 書

(證書編號：L2261-260508)

茲證明

華城電機股份有限公司

華城電機股份有限公司開關處測試實驗室

桃園市觀音區中正路 55 號

為本會認證之實驗室

認 證 依 據：ISO/IEC 17025：2017；CNS 17025：2018

認 證 編 號：2261

初 次 認 證 日 期：一百年二月八日

認 證 有 效 期 間：一百一十五年六月十六日至一百一十八年六月十五
日 止

認 證 範 圍：測試領域，如續頁

董事長

陳怡鈴



掃描確認真偽

中華民國一一五年五月八日

認證編號：2261

實驗室主管：張旦宗

■ 31.02 電力設備

電力及配電變壓器 (油浸式電力變壓器)

E006

1. 繞組電阻測定
2. 匝比及相位試驗 (不含極性試驗)
3. 負載損及阻抗電壓測定
4. 無載損及無載電流測定
5. 商頻耐電壓試驗
6. 感應電壓試驗
7. 部份放電試驗
8. 衝擊電壓試驗
9. 溫升試驗
10. 噪音試驗

IEEE Std C57.12.00 (2021)

IEEE Std C57.12.90 (2021)

IEC 60076-1 (2011)

IEC 60076-2 (2011)

IEC 60076-3 (2018)

IEC 60076-10 (2011)

3 Ø, 230 kV Max., 112 MVA Max., 60 Hz

報告簽署人: 徐信琦; 黃貴琳

■ 31.06 電力設備

氣體絕緣開關設備

E006

- a. 主回路商頻耐電壓試驗
- b. 輔助和控制回路的絕緣試驗
- c. 主回路電阻測量
- d. 部分放電測量
- e. 氣體密封性試驗
- f. 機械操作試驗 (斷路器, 隔離開關, 接地開關)
- g. 接線正確性的驗證
- h. 衝擊電壓試驗
- i. 溫升試驗

IEC 62271-1 (2011)

IEC 62271-200 (2011)

3 Ø, 24 kV Max., 2, 500 A Max., 60 Hz, 25 kA Max.

報告簽署人: 李志宏; 張旦宗; 陳柏銓; 馮梓翁

■ 31.07 電力設備

斷路器

E006



- 1.構造檢查
 - 2.主回路商頻耐電壓試驗
 - 3.主回路電阻測量(量測)
 - 4.機械開閉及特性試驗
- IEC 62271-1 (2011)
IEC 62271-100 (2012)
3 Ø, 12 kV Max., 3150 A Max., 50 kA Max., 60Hz
3 Ø, 24 kV Max., 2500 A Max., 25 kA Max., 60Hz

報告簽署人: 李志宏; 張旦宗; 陳柏銓; 馮梓翁

■ 31.08 電力設備

高壓配電盤

E006

- a.構造檢查(設計及目視檢查)
 - b.主回路及輔助回路商用頻率耐電壓試驗(主電路上之電介質試驗/輔助及控制電路上之電介質試驗)
 - c.主回路電阻量測(主電路電阻之量測)
 - d.機構動作試驗(機械性操作試驗)
 - e.配線之確認及電氣動作試驗(操作裝置試驗/輔助電路及控制電路上之試驗)
 - f.溫升試驗(連續電流試驗)
 - g.衝擊耐電壓試驗(雷衝擊電壓試驗)
- CNS 3990 (84 年版)
CNS 3991 (84 年版)
IEC 62271-1 (2011)
IEC 62271-1 (2017)
IEC 62271-200 (2011)
IEC 62271-200 (2021)
CNS 15156-200 (100 年版)
CNS 15156-200 (111 年版)
CNS 15156-1 (102 年版)
3 Ø, 24 kV Max., 4000 A Max., 60 Hz

報告簽署人: 李志宏; 張旦宗; 陳柏銓; 馮梓翁

E006 耐候試驗(防風雨試驗)

耐候試驗(防風雨試驗)

- CNS 3990 (84 年版)
CNS 3991 (84 年版)
IEC 62271-1 (2011)
IEC 62271-200 (2011)
CNS 15156-1 (102 年版)
CNS 15156-200 (100 年版)
耐候試驗(防風雨試驗):
IP2XW to IP4XW
CNS 3990 (84 年版)(附錄 EE)
CNS 15156-1 (102 年版)(附錄 C)
IEC 62271-1 (2007)(附錄 C)
IEC 62271-1 (2011)(附錄 C)

報告簽署人: 李志宏; 張旦宗; 陳柏銓; 馮梓翁



■ 31.12 電力設備

低電壓金屬閉鎖型配電箱

E007

- a.構造試驗
- b.機構動作試驗
- c.程序試驗
- d.耐電壓試驗
- e.溫升試驗
- f.絕緣電阻試驗

CNS 13543 (84 年版)

CNS 13542 (84 年版)

CNS 3988 (僅適用於絕緣電阻試驗)

3 Ø, 480 V Max., 6000 A Max., 60 Hz

報告簽署人: 李志宏; 張旦宗; 陳柏銓; 馮梓翁

■ 31.12 電力設備

低電壓開關裝置及控制裝置組裝品 (例行查證)

E007

- a.箱體之保護等級 (不含機械防撞擊保護試驗)
- b.空間距離及沿面距離
- c.防電擊之保護及保護性電路之完整性
- d.內建式組件之結合
- e.內部電氣電路及連接
- f.外部導體用之端子
- g.機械操作
- h.介電特性 (限商頻耐電壓試驗)
- i.配線、運轉性能及功能

IEC 61439-1 (2011)

IEC 61439-2 (2011)

CNS 15783-1 (104 年版)

3 Ø, AC 480 V Max, 6300 A Max, 60 Hz/50 Hz

IP4X Max.

報告簽署人: 李志宏; 張旦宗; 陳柏銓; 馮梓翁

■ 31.12 電力設備

金屬封閉式低壓電力斷路器開關設備

E007

- a.構造檢查
- b.機構動作試驗
- c.程序試驗
- d.耐電壓試驗

IEEE std C37.20.1 (2015)

3 Ø, 3 W, 60 Hz, 480 Vac Max., 3200 A Max.

報告簽署人: 李志宏; 張旦宗; 陳柏銓; 馮梓翁



■ 31.99 電力設備
低壓電動機控制中心
E007

- a.構造試驗
- b.耐電壓試驗
- c.順序試驗
- d.溫度試驗
- e.絕緣電阻試驗

CNS 3989 (80 年版)

CNS 3988 (89 年版)

3 Ø, 480 V Max., 2000 A Max., 60 Hz

報告簽署人: 李志宏; 張旦宗; 陳柏銓; 馮梓翁

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財團法人全國認證基金會
Taiwan Accreditation Foundation

Certificate of Accreditation

(Certificate No : L2261-260508)

This is to certify that

Fortune Electric Co.,Ltd

Fortune Electric Co.,Ltd Switchgear Division Test Laboratory

No.55, Zhongzheng Rd., Guanyin Dist., Taoyuan City

is accredited in respect of laboratory

Accreditation Criteria : ISO/IEC 17025:2017 ; CNS 17025:2018

Accreditation Number : 2261

Originally Accredited : February 08, 2011

Effective Period : June 16, 2026 to June 15, 2029

Accredited Scope : Testing Field, see described in the Appendix



Scan to verify

Yi-Ling Chen

Yi-Ling Chen
President, Taiwan Accreditation Foundation
May 08, 2026

Accreditation Number : 2261

Laboratory Head : CHANG, Tan-Chung

▼ 31. 02 Electrical power equipment

Power & Distribution Transformer (Oil-Immersed Power Transformer)

E006

- 1.Measurement of winding resistance
 - 2.Measurement of voltage ratio and check of phase displacement (Polarity and phase-relation tests)
 - 3.Measurement of short-circuit impedance and load loss
 - 4.Measurement of no-load loss and current
 - 5.Applied voltage test (AV)
 - 6.Induced voltage test
 - 7.Partial discharge (PD) measurement
 - 8.Lightning impulse test
 - 9.Temperature rise tests
 - 10.Determination of sound levels
- IEEE Std C57.12.00 (2021)
IEEE Std C57.12.90 (2021)
IEC 60076-1 (2011)
IEC 60076-2 (2011)
IEC 60076-3 (2018)
IEC 60076-10 (2011)
3 Ø, 230 kV Max., 112 MVA Max., 60 Hz

Approval Signatory: XU, Xin-Qi; HUANG, Kuei-Ling

▼ 31. 06 Electrical power equipment

Gas Insulated Switchgear

E006

- a.Power-frequency Voltage tests of the main circuit
 - b.Power-frequency voltage tests on auxiliary and control circuits
 - c.Measurement of the resistance of the main circuit
 - d.Partial discharge measurement
 - e.Gas tightness tests
 - f.Mechanical operation tests (circuit breaker, disconnecting switch, earthing switch)
 - g.Verification of the correct wiring and functional tests.
 - h.Lightning impulse voltage test
 - i.Temperature-rise test
- IEC 62271-1 (2011)
IEC 62271-200 (2011)
3 Ø, 24 kV Max., 2, 500 A Max., 60 Hz, 25 kA Max.

Approval Signatory: LEE, Chih-Hung; CHANG, Tan-Chung; CHEN, Po-Chuan; FENG, Leo

▼ 31. 07 Electrical power equipment

Circuit Breaker

E006

- 1.Design and visual checks
 - 2.Power-frequency Voltage tests on the main circuit
 - 3.Measurement of the resistance of the main circuit
- P2, total 5 pages



4. Mechanical operating tests.

IEC 62271-1 (2011)

IEC 62271-100 (2012)

3 Ø, 12 kV Max., 3150 A Max., 50 kA Max., 60 Hz

3 Ø, 24 kV Max., 2500 A Max., 25 kA Max., 60 Hz

Approval Signatory: LEE, Chih-Hung; CHANG, Tan-Chung; CHEN, Po-Chuan; FENG, Leo

■ 31. 08 Electrical power equipment

High Voltage Switch Board/Panel (High-Voltage Switchgear and controlgear)

E006

a. Inspection & checking of details of the constructor (Design and visual checks)

b. Dielectric test on the main & auxiliary circuit (Dielectric test on the main circuit)

(Dielectric test on auxiliary and control circuits)

c. Measurement of the resistance of the main circuit

d. Check of switch Board/Panel operation

(Mechanical operation tests)

e. Verification of correct wiring and electric operation tests (Tests on auxiliary and control circuits / Tests of auxiliary electrical devices)

f. Temperature-rise Test

g. Lightning impulse Voltage Test

CNS 3990 (1995)

CNS 3991 (1995)

IEC 62271-1 (2011)

IEC 62271-1 (2017)

IEC 62271-200 (2011)

IEC 62271-200 (2021)

CNS 15156-200 (2011)

CNS 15156-200 (2022)

CNS 15156-1 (2013)

3 Ø, 24 kV Max., 4000 A Max., 60 Hz

Approval Signatory: LEE, Chih-Hung; CHANG, Tan-Chung; CHEN, Po-Chuan; FENG, Leo

■ 31. 08 Electrical power equipment

High voltage switchboard

E006 Weatherproofing test

Weatherproofing test

CNS 3990 (1995)

CNS 3991 (1995)

IEC 62271-1 (2011)

IEC 62271-200 (2011)

CNS 15156-1 (2013)

CNS 15156-200 (2011)

Weatherproofing test:

IP2XW to IP4XW

CNS 3990 (1995) (Annex EE)

CNS 15156-1 (2013) (Annex C)

IEC 62271-1 (2007) (Annex C)

IEC 62271-1 (2011) (Annex C)

Approval Signatory: LEE, Chih-Hung; CHANG, Tan-Chung; CHEN, Po-Chuan; FENG, Leo



▼ 31. 12 Electrical power equipment
Low-Voltage metal-enclosed switchgear
E007
a.Design and visual checks
b.Mechanical operating tests
c.electric operation test
d.Power-frequency Voltage tests
e.Temperature-rise tests
f.Insulation resistance tests
CNS 13543 (1995)
CNS 13542 (1995)
CNS 3988 (Only for Insulation resistance tests)
3 Ø, 480 V Max., 6000 A Max., 60 Hz

Approval Signatory: LEE, Chih-Hung; CHANG, Tan-Chung; CHEN, Po-Chuan; FENG, Leo

▼ 31. 12 Electrical power equipment
Low-voltage switchgear and controlgear assemblies (Routine verification)
E007
a.Degree of protection of enclosures (Except for Protection against mechanical impact test)
b.Clearances and creepage distances
c.Protection against electric shock and integrity of protective circuits
d.Incorporation of built-in components
e.Internal electrical circuits and connections
f.Terminals for external conductors
g.Mechanical operation
h.Dielectric properties (Only applies to Power-frequency withstand voltage test)
i.Wiring, operational performance and function
IEC 61439-1 (2011)
IEC 61439-2 (2011)
CNS 15783-1 (2015)
3 Ø, AC 480 V Max., 6300 A Max., 60 Hz/50 Hz
IP4X Max.

Approval Signatory: LEE, Chih-Hung; CHANG, Tan-Chung; CHEN, Po-Chuan; FENG, Leo

▼ 31. 12 Electrical power equipment
Metal-Enclosed, Low-Voltage Power Circuit Breaker Switchgear
E007
a.Design and visual checks
b.Mechanical operating tests
c.electric operation test
d.Power-frequency Voltage tests
IEEE std C37.20.1 (2015)
3 Ø, 3 W, 60 Hz, 480 Vac Max., 3200 A Max.

Approval Signatory: LEE, Chih-Hung; CHANG, Tan-Chung; CHEN, Po-Chuan; FENG, Leo

▼ 31. 99 Electrical power equipment
Low-Voltage Motor control centers
E007
a.Inspection & checking of details of the constructor
b.Power-frequency Voltage tests
c.electric operation test
d.Temperature-rise tests
P4, total 5 pages



e. Insulation resistance tests

CNS 3989 (1991)

CNS 3988 (2000)

3 Ø, 480 V Max., 2000 A Max., 60 Hz

Approval Signatory: LEE, Chih-Hung; CHANG, Tan-Chung; CHEN, Po-Chuan; FENG, Leo

(Null below)

