

迅速、專業、貼心
您的需求我們辦得到

INSTANCY. PROFESSIONALITY. CONSIDERATION.
WE CAN ACHIEVE WHAT YOU NEED



翔強國際股份有限公司
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關係企業 洋華光電股份有限公司
Relational Company Young Fast Optoelectronics Co., Ltd.



TRANSFORMERS 變壓器
REACTORS 電抗器
VOLTAGE STABILIZERS 穩壓器

翔強國際股份有限公司
T-SUPPLY INTERNATIONAL CO.LTD.





追求技術新境界 貼心的服務

致力於變壓器設計製造的翔強國際股份有限公司，產品範圍涵蓋各式變壓器、電抗器與穩壓器。翔強產品完全依據 IEC 規範製作，並取得多項專業認證，為客戶提供品質信賴的保障。

在不斷追求技術提升與公司成長之際，我們也全力投入新產品的開發，改善生產效率，提升產品品質與產能。為客戶提供專業迅速的技術服務。

ALWAYS PURSUING A NEW LEVEL OF TECHNOLOGY COMPREHENSIVE SERVICE

T-SUPPLY International CO. Ltd. is a dedicated manufacturer of transformers. Our product range includes various transformers, reactors and voltage stabilizers. T-SUPPLY products are designed and manufactured to fully meet IEC standards, and certified by several authorities. These provide customers an assurance for dependability of T-SUPPLY products.

We always strive hard to upgrade technology levels and pursue the company's growth. In the meantime, we are dedicated to developing new products, improve production efficiency and upgrade quality and productivity. However, we never forget to offer expert and prompt service to our customers.





T-SUPPLY PRODUCTS MEET INTERNATIONAL STANDARDS

翔強產品符合國際標準 多項專業認證

VARIOUS QUALITY CERTIFICATIONS

完全依據國際電工法規IEC規範製造
TAF國家實驗室認可
CE認證
高壓變壓器CNS認可

Manufacturing fully meets IEC standards.
Approved by the national laboratory (TAF).
CE certified.
CNS approved for high voltage transformer.

OUTSTANDING R&D CAPABILITIES

優異的研發能力

不斷追求技術，是翔強公司的既定策略。多年來，翔強公司已投入了無數的資金與心血於產品的研究開發與改良。此外，我們更採用精密儀器作設計輔助，以確保設計上的準確性。對於變壓器的構造，工作原理與製造標準等，均經過本公司專業的技術團隊作鉅細靡遺的探討與分析，以徹底達到台灣電力公司的標準及客戶的絕對肯定。

Constantly pursuing higher technology levels has been T-SUPPLY's unwavering policy since the company was established. Over the years, T-SUPPLY has spent considerable capital and efforts in product research, development and improvement. In addition, we also apply sophisticated instruments for design assistance, ensuing high accuracy for our design. The transformer construction, working principle and manufacturing standards, our expertise team conducts thorough research and analysis. Or dedication to R&D enables T-SUPPLY products to fully meet TAIWAN POWER COMPANY standards and customers' recognition.



引出線以焊接取代壓著方式連接以降低電阻值及加強密合度。

Guide wires are welded instead of clamping to reduce resistance.



箱體組立
Enclosure
Assembling



線圈乾燥爐
Coil Drying Oven

T-SUPPLY INSISTS ON PERFECT QUALITY

翔強堅持完美品質

翔強產品之所以深受國內外客戶的絕對滿意，其重要因素之一是本公司已建立了一套完整的品質控管制度。以徹底掌握製造過程中每一階段的品質。我們的品管系統包括進料檢驗、製程檢驗、成品檢驗、出廠檢驗。此外，我們更委外權威機構認證，以達到最佳品質的境界。

Over the years, T-SUPPLY products have been fully satisfactory to all customers, both domestic and overseas. One of the reasons for such a reputation is that we have set up a complete quality control system that allows us to control quality at every stage throughout the entire manufacturing process. Our quality control system includes: incoming inspection, on-process inspection, finished product inspection and before shipment inspection. Additionally, our products are also certified by several authorities. Our objective is to ensure each product will achieve the best possible quality condition.

製程中檢驗
On-Process Inspection



檢驗項目

- 衝擊電壓試驗
- 感應電壓試驗
- 交流耐電壓試驗
- 效率測定
- 無負載與負載損失測試
- 線圈電阻測試
- 絕緣電阻試驗
- 匝比試驗
- 溫升試驗

TESTING ITEMS

- Impact voltage test
- Inductive voltage test
- High voltage test
- Performance test
- Non-load and load loss test
- Coil resistance test
- Insulation resistance test
- Coil ratio inspection
- Performance test including voltage, current, temperature rise and load.

單相工業控制用變壓器

工業控制變壓器 用於轉換電源電壓提供所要求的電壓，供應工業控制電路和電機控制用。

專為電氣控制應用中，二次側電壓保持穩定的實際範圍內可容納瞬間激磁電流。

- 用來調節與需求相匹配負荷的電源電壓控制盤。
- 工作燈，小型馬達，電磁閥，指示燈等。
- 隔離式並具有電路隔離功能。

使用高滲透性矽鋼疊片，並注重所有產品的結構性保證低噪音和高效率。使用H級漆包銅線和絕緣材料。

可選項包括：

- 自耦式
- 隔離式
- 多輸入或輸出電壓
- 接線端子或顏色編碼引線
- 觸摸安全透明罩
- 保險絲座

OPTIONAL ITEMS

- Automatic type
- Isolation type
- Multi-input or output voltage
- Terminal or color coded wires
- Transparent cover for touch-safety
- Fuse kits

The industrial transformer is designed for changing the power voltage to a desired voltage, which is normally applied for industrial control circuit and motor control.

In application of electronic control, the stabilized voltage at second side is capable of resiting an instant energized current.

- For regulating and meeting the requirement for same load of power voltage on a control board.
- Applicable for working lamp, small motor, solenoid valve and indication lamp, etc.
- An isolated type transformer provides isolation function for electric circuit.

The transformer employs high permeability silicon steel sheets and is carefully constructed, featuring low noise and high efficiency. Also, the H class copper wire and insulating materials are employed.



SINGLE PHASE INDUSTRIAL TRANSFORMER

THREE PHASE DRY-TYPE TRANSFORMER

三相乾式變壓器

可選項包括：

- 自耦式
- 隔離式
- 一 / 二次側電壓
- 端子台型式
- 三相三線式
- 三相四線式
- 保護裝置
- 頻率
- 銅 / 鋁繞組

OPTIONAL ITEMS

- Automatic type
- Isolation type
- Primary / Secondary voltage
- Terminal blocks type
- 3-phase 3-wire type
- 3-phase 4-wire type
- Protection device
- Frequency
- Copper / Aluminum winding set



SERVO TYPE

伺服型

可選項包括：

- 自耦式
- 隔離式
- 一 / 二次側電壓
- 端子台型式
- 三相三線式
- 三相四線式
- 保護裝置
- 頻率
- 銅 / 鋁繞組
- 輸出 / 入電纜線
- 保護管

OPTIONAL ITEMS

- Automatic type
- Isolation type
- Primary / Secondary voltage
- Terminal blocks type
- 3-phase 3-wire type
- 3-phase 4-wire type
- Protection device
- Frequency
- Copper / Aluminum winding set
- Output / Input cable
- Protection tube



STABILIZER(A.V.R)

穩壓器

特性:

- 穩壓範圍：輸入額定電壓值 $\pm 15\%$ (以220V為例，即187V-253V範圍) 或 $\sim \pm 20\%$ 、 $\pm 30\%$ 。
- 穩壓準度：穩壓後電壓輸出誤差值小於 $\pm 1\%$ ，以220V而言誤差在2V上下。
- 反應時間：穩壓動作之啟動從0.01秒開始，而於0.1秒之內全程完成 (如需更為快速，可選擇磁飽和式穩壓器)

FEATURES

- Range of Stabilization: $\pm 5\%$ of the input rated voltage or even up to $\pm 2\%$ or $\pm 0\%$ (for example: for 220V power, the range is 187V~253V).
- STABILIZING ACCURACY: After voltage is stabilized, the output voltage error will be less than $\pm 1\%$. For example: for 220V power, the voltage error is about 2V.
- RESPONSE TIME: Stabilizing motion starts from 0.01 second, and can be finished in 0.1 second (when faster response is required, a magnetic saturated stabilizer is recommended).

可選項包括：

- 單 / 三相
- 電壓
- 穩壓+變壓(整合型)

OPTIONAL ITEMS

- Single / Three phase
- Volt
- Voltage and stabilizer with transformer (combination type)



串聯電抗/濾波電抗/啟動電抗

線性電抗器是解決當今SCR驅動器的利器-變頻器應用問題

在電氣設備的輸入端與輸出端加裝感應器，具有保護與提升性能之效果。線性電抗器可以吸收電源線的大部份干擾。此種干擾問題裝會造成下列控制器的損壞或關機，例如：變頻器、無段變速控制器或其他電壓感測設備等。

- 將三相AC線性電抗器使用在變頻器(電子速度驅動器)，作為輸入或輸出濾波器使用，具有許多益處。
- 將電抗器、電阻器與電容器安裝在可調式頻率驅動器的輸出端，可以保護馬達繞線不會受到異常電壓造成損壞。而且對於IGBT，長電線與電纜線具有快速切換效果。

電抗器定購指示

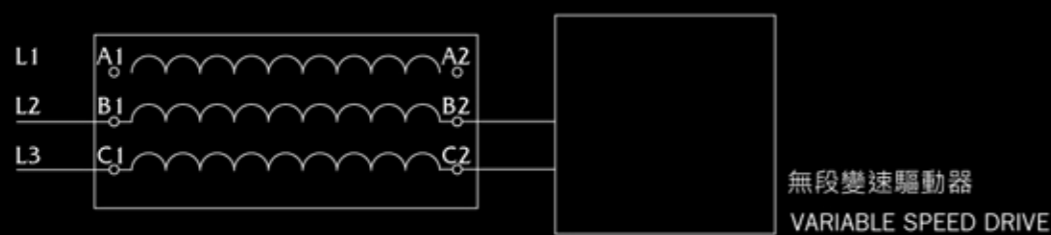
1. 先決定驅動器或馬達的額定馬力或額定電流。
2. 選擇供應電壓(208、240、480或600V)。
3. 決定應用所需的阻抗(%)。
4. 電感質與感量。

標準構造

線性電抗器應用在輸入電抗器

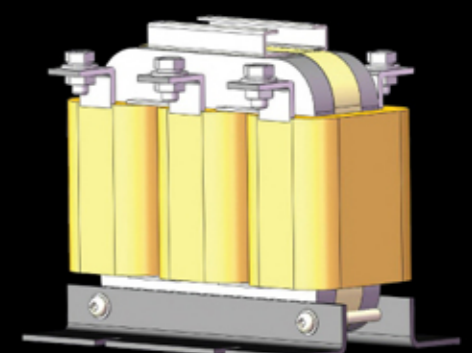
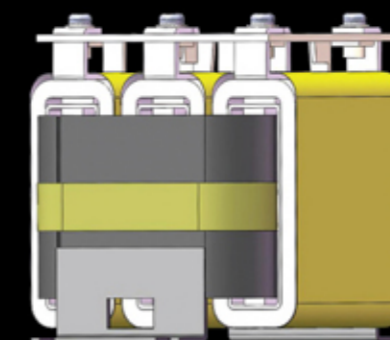
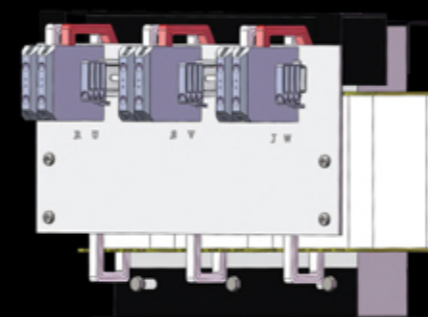
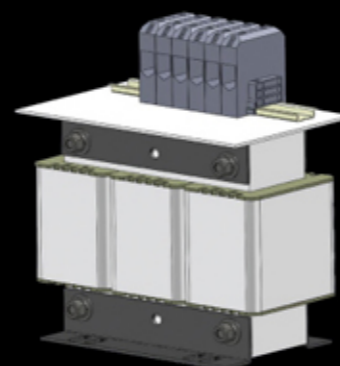
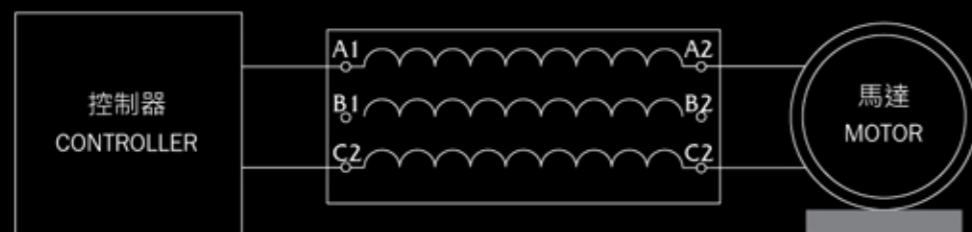
TYPICAL CONFIGURATIONS

LINE REACTORS AS INPUT REACTOR



線性電抗器應用在輸出電抗器

LINE REACTOR AS OUTPUT REACTOR



LINE REACTORS

LINE REACTORS ARE TODAY'S SOLUTION TO SCR DRIVE - INVERTER APPLICATION PROBLEMS

Inductors placed at the input and output of electrical equipment, can provide protection and improve performance. Line Reactors absorb many power line disturbances which could damage or shut down your inverters, variable speed controllers or other voltage sensitive equipment

- Three phase AC line reactors when used as input or output filters on inverter electronic speed drive applications provide several significant benefits which are explained on this site.
- Incorporate reactors, resistors, and capacitors. When these devices are placed on the output of adjustable frequency drives they protect the motor windings from the damaging voltage spikes associated with the fast switching effects of IGBT's and long lines and cables.

SELECTION GUIDE FOR LINE REACTORS

1. Determine the HP (horse power) rating or the current rating of the drive or motor.
2. Select the supply voltage. (208, 240, 480, or 600 Volts)
3. Determine the % impedance required for the application.
4. Harmonic.



高壓電容器 ▲
HIGH VOLTAGE POWER CAPACITOR



高壓電容器 ▲
HIGH VOLTAGE POWER CAPACITOR



油冷式變壓器 ▲
OIL COOLED TRANSFORMER



高壓比壓器 ▲
POTENTIAL TRANSFORMER

高壓配電系列

HIGH VOLTAGE POWER DISTRIBUTION SERIES



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CAST COIL TRANSFORMER

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