

트랜스포머

Transformer

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⚠ 주 의

LED 통전 표시 램프가 부착된 단자대 및 회전식 투명 안전커버를 채용한 트랜스포머는 대한민국 발명특허를 획득하여 특허법에 의한 법적인 보호를 받는 주식회사 운영 만의 고유 기술입니다.

- LED LAMP 단자대 트랜스**
- 발명특허 제2006-83128
 - 의장등록 제96-019675

⚠ Caution

Terminal block type transformer with protection cover and LED lamp acquires ROK patent of invention that advance and is characteristic technology of WOONYOUNG CO, LTD that receive protection by ROK patent law.

- Trminal Block Type Transformer With LED Lamp**
- Patent of invention No 2006-83128
 - Resistration of Design No 96-019675

주문시 확인 승낙 사항

Items to be verified and approved when ordering products

운영 제품을 구입하는 고객 여러분께!

저희 운영 제품을 이용해 주셔서 대단히 감사합니다.

본 카탈로그에서 당사 제품을 주문하실 경우, 견적서, 계약서, 사양서 등에 특기사항이 없는 경우에는 다음의 적합 용도조건, 보증내용등을 적용합니다. 아래 내용을 확인하시고 승낙하신 후 주문해 주십시오.

1. 보증 내용

① 보증기간

당사 제품의 보증기간은 구입 후 또는 지정 장소 납입 후 1년으로 합니다.

② 보증 범위

상기 보증 기간 중에 당사측의 책임으로 당사 제품에 고장이 발생한 경우 대체품 제공 또는 수리를 제품 구입 장소에서 무상으로 실시합니다. 단, 고장의 원인이 다음에 해당하는 경우에는 이 보증 대상 범위에서 제외됩니다.

- 본 카탈로그 또는 사양서에 기재되어 있는 이외의 조건, 환경, 취급 및 사용에 의한 경우
 - 당사 제품 이외의 원인에 의한 경우
 - 당사 이외에 의한 개조 또는 수리에 의한 경우
 - 당사 제품의 본래 사용법 이외의 사용에 의한 경우
 - 당사 출하 당시의 과하, 기술 수준으로는 예측 할 수 없었던 경우
 - 기타 천재지변, 재해 등 당사측의 책임이 아닌 원인에 의한 경우
- 참고로 여기서의 보증은 당사 제품 단품의 보증을 의미하는 것이며, 당사 제품 고장에 의해 유발되는 손해는 보증 대상에서 제외됩니다.

2. 책임의 제한

- 당사 제품에 기인해 발생한 특별손해, 간접손해, 또는 소극적 손해에 대해 당사는 일체의 책임을 지지 않습니다.
- 프로그래밍 가능한 당사제품에 대해 당사 이외의 자가 실시한 프로그램 또는 그에 의해 발생한 결과에 대해 당사는 일체의 책임을 지지 않습니다.

3. 적합 용도의 조건

- 당사 제품을 다른 제품과 조합해서 사용하는 경우에 적합해야 할 규격, 범주 및 규제는 고객이 직접 확인해 주십시오.
또 고객이 사용하는 시스템, 기계, 장치에 대한 당사제품의 적합성은 고객이 직접 확인해 주십시오.
이것이 실시되지 않는 경우 당사는 당사 제품의 적합성에 대해 책임을 지지 않습니다.
- 다음 용도에 사용하는 경우, 당사 영업 담당자와 상담하고 사양서 등을 통해 확인하는 한편 정격, 성능에 대해 여유를 주거나 만일 고장이 발생해도 위험을 최소화 할 수 있는 안전 회로 등의 안전 대책을 2중으로 강구해 주십시오.
 - 실외, 잠재적인 화학적 오염 또는 전기적 방해를 받는 용도 또는 본 카탈로그에 기재되지 않는 조건이나 환경에서 사용.
 - 원자력 제어설비, 소각설비, 철도, 항공, 차량설비, 의료용 기계, 반도체 제조장비, 오락기계, 안전장치 및 행정 기관이나 개별 업계의 규제에 따른 설비
 - 인명이나 재산에 위험이 미칠 수 있는 시스템, 기계, 장치
 - 가스, 수도, 전기의 공급 시스템, 24시간 연속 운전 시스템 등 높은 신뢰성이 필요한 설비
 - 자동차(2륜차 포함) 탑재 설비
 - 기타상기 a)~e)에 준하며 고도의 안전성이 필요한 용도
- 고객이 당사 제품을 인명이나 재산에 중대한 위험을 미치는 용도에 사용하는 경우에는 시스템 전체적으로 위험을 알리거나 여유 있는 설계에 의해 필요한 안전성을 확보할 수 있도록 설계되어 있는지 당사 제품이 전체적으로 의도한 용도에 적절히 배전, 설치 되어 있는지 반드시 고객이 직접 사전에 확인해 주십시오.
- 본 카탈로그에 기재되어 있는 용도는 참고용이므로 채택 시에는 기기, 장치의 기능과 안전성을 확인 한 후에 사용해 주십시오.
- 당사 제품의 잘못된 사용으로 고객 또는 제 3자에게 예기치 않는 손해가 발생하지 않도록 사용상의 금지 사항 및 주의 사항을 완전히 숙지 한 후 반드시 지켜 주십시오.

4. 사양변경

본 카탈로그에 기재된 제품의 사양 및 동봉품은 개선 또는 기타 사유에 의해 필요에 따라 변경될 수 있습니다.

당사 영업 담당자와 상담하고 당사 제품의 실제 사양을 확인해 주십시오.

5. 서비스의 범위

당사 제품의 가격에는 기술자 파견 등의 서비스 비용은 포함되어 있지 않습니다.

원하실 경우에는 당사 영업 담당자와 상담해 주십시오.

6. 적용 범위

상기 사항은 대한민국 내에서의 거래 및 사용을 전제로 합니다.

해외에서의 거래 및 사용에 대해서는 당사 영업 담당자와 사전에 상담해 주십시오.

Dear customers who purchase Woon Young products!

Thank you for purchasing Woon Young products.

If there is no particular information on estimates, contracts or specifications when you order products from this catalog, the following conditions of use and warranty shall apply. Please place orders after you read and approve the following items.

1. Content of Warranty

① Warranty period

The warranty period of this product shall be 1 year from the date of purchase or from the day the product is delivered to a designated place.

② Scope of warranty

If failure occurs due to reasons attributable to this company during the above-said warranty period, this company will provide substitute products or repair the product free of charge at the place of purchase. However, if the cause of failure is one of the following, it shall be excluded from being eligible for warranty benefits.

- Products were handled or used under the conditions and environment not entered in this catalog or in specification.
 - Failure occurred due to reasons other than those caused by this product.
 - Failure occurred due to modification or repairs performed by persons other than this company.
 - Failure occurred because the product was used based on the method other than the original usage of this product.
 - Failure was not expected by the scientific and technical levels prevailing at the time of shipment.
 - Failure occurred due to causes beyond the control of this company, e.g. natural disasters and accidents.
- Warranty as specified herein means the warranty covering only the product of this company, and any damage caused by the failure of this product shall be excluded from being eligible for warranty coverage.

2. Limitations on responsibility

- This company shall not be held liable whatsoever for any special damage, indirect damage or passive damage caused by this product of this company.
- This company shall not be held liable whatsoever for any programming performed by persons other than this company on the programmable products or for the results of such programming.

3. Conditions of compatibility

- Please check the standards, laws and regulations applicable when this product is used in combination with other products.
In addition, be sure to check the compatibility of this product covering the systems, machines and devices used by you.
If you fail to take actions as above, this company shall not be held liable for the compatibility of the product.
- If the product is used for the following purposes, discuss details with the sales manager of this company based on the provided specifications. At the same time, allow sufficient rating and performance, or take appropriate safety measures through the safety circuits that can minimize risks even if failure occurs.
 - Using the product outside or under environment exposed to potential chemical pollution or electric interference, or using the products under the conditions or environment not specified in this catalog.
 - Nuclear controllers, incinerators, railways, aviation, vehicles, medical equipment, semiconductor manufacturing equipment, game machines, safety devices and equipment regulated by administrative agencies or individual maker.
 - Systems, machines and devices that can cause personal or property damage.
 - Equipment requiring high degree of reliability, e.g. gas, water and electricity supply systems, and 24-hour continuous operation systems.
 - Automobile (Including two-wheeled vehicles) mounted equipment
 - Other purposes equivalent to the above-said paragraph a) through e) requiring high degree of safety.
- If the product is used for purposes that might induce serious personal or property damage, be sure that you inform risks covering the entire system in advance or verify whether the product is designed to ensure required safety or whether the product is properly connected and installed to suit the intended overall purposes
- The purposes of the products shown in this catalog are only for reference purposes. Apply such purposes only after you check the functions and the safety of the equipment and devices.
- To prevent unexpected damage to you or to third parties resulting from improper use of this product, be sure to use the product after you thoroughly read and understand items related to prohibitions and caution during use.

4. Changing specifications

The products and specifications entered in this catalog are subject to change as needed for improvement or for other reasons. Discuss with the sales manager of this company and verify actual specifications of the products.

5. Range of service

The product prices do not contain any service expenses, e.g. dispatch of technicians. If you need any services, discuss with the sales manager of this company.

6. Scope of application

Items described above are on the premise that the products are traded and used in the Republic of Korea. Discuss with the sales manager of this company regarding overseas transactions and uses.

GUIDELINES FOR SAFETY

안전을 위한 주의사항 Guidelines for Safety

- "안전을 위한 주의사항" 은 제품을 안전하고 올바르게 사용하여 사고나 위험을 미리 막기 위한 것이므로 반드시 지켜 주십시오.
- 주의사항은 "경고"와 "주의"의 두 가지로 구분되어 있으며 "경고" 와 "주의"의 의미는 다음과 같습니다.

⚠ 경고 지시사항을 위반하였을 때 심각한 상해나 사망이 발생 할 가능성이 있는 경우입니다.

⚠ 주의 지시사항을 위반하였을 때 경미한 상해나 제품손상이 발생할 가능성이 있는 경우 입니다.

- 제품과 사용설명서에 표시된 ⚠ 그림기호의 의미는 특정 조건 하에서 위험이 발생 할 우려가 있으므로 주의하라는 기호입니다.

⚠ 경고

1. 인명이나 재산상에 영향이 큰 기기 (예: 원자력제어, 의료기기, 차량, 철도, 항공, 연소장치, 오락기기 등 또는 안전장치)에 사용할 경우 반드시 2중으로 안전장치를 부착한 후 사용하여 주십시오.
- 화재, 인명사고, 재산상의 손실이 발생할 수 있습니다.
2. 반드시 패널에 취부 하여 사용하시고 FG 또는 $\perp$ 단자는 접지하여 주십시오.
- 감전의 우려가 있습니다.
3. 전원이 인가된 상태에서 결선 및 점검, 보수를 하지 마십시오.
- 감전의 우려가 있습니다.
4. 자사 수리기술자 이외에는 제품을 개조하지 마십시오.
- 감전이나 화재의 우려가 있습니다.
5. 입력 전원사양을 반드시 확인하시고 전원 연결 시 반드시 단자번호를 확인하시고 연결하십시오.
- 화재의 우려가 있습니다.
6. 전원을 차단한 직후에 부하측 단자를 만지지 마십시오.
- 감전의 우려가 있습니다.

⚠ 주의

1. 실외에서 사용하지 마십시오.
- 제품의 수명이 짧아지는 원인이 되며 감전의 우려가 있습니다.
2. 전원 및 부하배선 연결 시에는 부하전류에 따른 전선의 굵기에 유의하여 주십시오.
- 전류에 비하여 전선의 굵기가 가늘면 화재의 위험이 있습니다.
3. 단자대의 나사는 규정토크로 조여 주십시오.
규정토크(TORQUE) M3.5: 0.6~1.2N(6~12kgf.cm), M4 : 1.3~1.5 N(10~14Kgf.cm), M5: 2.1~3.0N(21~30kgf.cm), M8:10.6~12.5N(108~127kgf.cm), M12: 35.7~42N(364~428kgf.cm) M14: 57.8~68N(590~693kgf.cm)
- 나사가 풀리면 접촉불량으로 화재의 우려가 있습니다.
4. 반드시 정격과 성능 범위내에서 사용하여 주십시오.
- 제품의 수명이 단축되고 고장 발생의 원인이 됩니다.
5. 청소시 물, 유기용제 등의 사용을 금합니다.
- 감전 및 화재와 제품변형의 우려가 있습니다.
6. 가연성가스, 폭발성가스, 습기, 직사광선, 복사열, 진동, 충격이 있는 장소에서의 설치 및 운전을 금합니다.
- 제품수명단축 및 고장, 화재, 폭발의 위험이 있습니다.
7. 제품의 내부로 먼지나 배선찌꺼기 등의 유해한 도체가 유입되지 않도록 하여 주십시오.
- 고장 및 화재의 우려가 있습니다.
8. 제품 사용시 환기되지 않는 밀폐된 곳에서 사용하지 마십시오.
9. 동작 중 방열판류에는 고열이 발생하므로 절대 만지지 마십시오.
- 감전 및 화상의 우려가 있습니다.
10. 제품폐기 시에는 산업폐기물로서 처리하여 주십시오.

- Guidelines for safety is to use product safe and properly and prevent accidents or dangers. Never forget to keep it.

- Guidelines can be classified into two, warning and caution, and their meanings are as follows.

⚠ Warning When there is the possibility that serious injury or death can occur when violating directions.

⚠ Caution When there is the possibility that slight injury or the damage of products can occur when violating directions.

- The meaning of ⚠ lexigram indicated on the products and instructions is to handle with care as any danger can occur under specific conditions.

⚠ Warning

1. When using in instruments that have great influence on lives or properties(for examples: nuclear energy control, medical equipment, vehicles, railroad, aviation, combustion apparatus, entertainment systems or safety device), use after being sure to attach duplex safety device.
- There may be fire, loss of lives, or property damages.
2. Use after being sure to attach to panel, and ground FG or $\perp$ terminal.
-There may be the possibility of electric shock.
3. Don't connect, inspect and repair under the power-up.
-There may be the possibility of electric shock.
4. Don't remodel products except by the company's engineers.
-There may be the possibility of fire or electric shock.
5. Be sure to check input power source options, and connect after checking terminal number when connecting power sources.
-There may be the possibility of fire.
6. Don't touch the terminal of load side immediately after power source is cut off.
-There may be the possibility of electric shock.

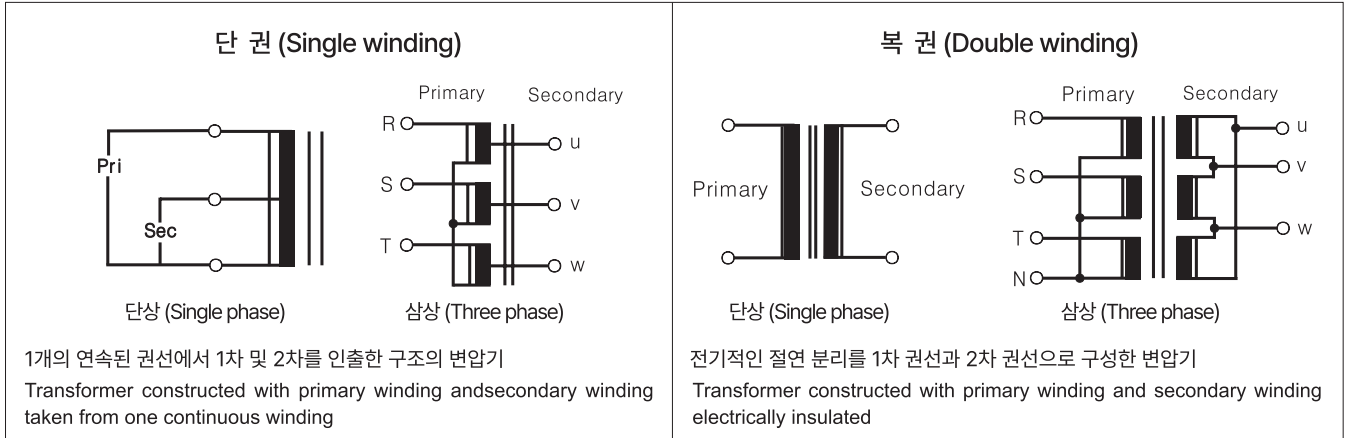
⚠ Caution

1. Don't use outdoors (for outdoor, separate order)
-It can be a cause of product's life becoming short, and there may be the possibility of electric shock.
2. When connecting power source and load wiring, pay attention to the thickness of cables according to load current.
-There may be the danger of fire if the thickness of cables is small for the current.
3. Tighten the screw of port by the regulated torque.
The regulated torque - M3.5: 0.6~1.2N(6~12kgf.cm), M4 : 1.3~1.5 N(10~14Kgf.cm), M5 : 2.1~3.0N(21~30kgf.cm) M8 : 10.6~12.5N(108~127kgf.cm), M12 : 35.7~42N(364~428kgf.cm), M14 : 57.8~68N(590~693kgf.cm)
-If the screw comes loose, there may be the possibility of fire because of bad contact.
4. Be sure to use within the range of rating and performance.
-Product's life is shortened, and it may be a cause of troubles.
5. Don't use water or organic solvent when cleaning.
-There may be the possibility of electric shock, fire and product deformation.
6. Don't install or operate in places with inflammable gas, explosive gas, direct ray of light, radiation heat, vibration and shock.
-There may be the possibility of troubles and fire.
7. Make sure that harmful conductors such as dust or fragments of cables may not be flowed into the inside of product.
-There may be the possibility of trouble or fire.
8. Don't use this product where closed and not ventilated place
- It may cause a fire and the damage to product.
9. Never touch during operation as there is superheat on the radiator board.
10. Dispose as industrial waste when discarding products.

1. 단권변압기 및 복권변압기의 주요사양 및 특성표 1Ø, 3Ø Specification

● 단권 변압기 및 복권 변압기 회로도

(Single winding Transformer and Double winding Transformer Circuit)



● 용량 계산 (Calculation of Capacity)

$$1\phi W(VA) = E(V) \times I(A)$$

$$3\phi W(VA) = E(V) \times I(A) \times \sqrt{3}$$

W=용량 (Capacity) : VA

E=2차 전압 (Secondary voltage) : V

I=2차 전류 (Secondary current) : A

● 변압기의 보호 회로

변압기 사고의 원인으로는 변압기 자체의 이상, 배선 연결 이상, 부하의 이상, 전원 전압의 이상과 온도 상승 등에 있는 것으로 생각됩니다. 변압기 사고가 발생할 경우 화재, 감전 등의 사고에 직결되며 용이하게 변압기를 사용함에 있어서 적당하고 적절한 보호 대책을 강구함을 필요로 하겠습니까.

구체적인 방법은 전류 퓨즈 Circuit - protector 보호 전자 회로 등을 사용합니다. 전류 퓨즈 Circuit - protector 선정에 주의하지 않으면 안되는 것은 전원 투입 시 순간적인 정상 전류의 수배부터 수십배까지 흐르는 여자 돌입 전류에 대해서 보호 회로가 동작하지 않는 경우와 이상 발생시 확실하게 회로를 차단한다는 경우 두가지를 가망하지 않으면 안되는 것입니다. 이 두가지 요소를 동시에 충족하는 보호 회로로서 전류 퓨즈와 Time-lock 용단형 퓨즈 Circuit-protector로서는 Initial 특성 등의 변압기 보호용으로서 시판되는 것을 선정하여 주십시오. 또 그 외의 보통 용단형, 속도형을 사용하는 경우에는 전원 투입 시에 빈번하게 동작하거나 반대로 이상 시에 동작 한다가 하는 불충분하게 발생하는 것은 주의 하십시오. 퓨즈 또는 Protector의 정격치는 아래의 공식을 참조하시기 바랍니다.

퓨즈 정격치 = 변압기의 정상 1차 전류/0.7~0.8

변압기의 정상 1차 전류 ≒ 정격 용량/(효율 × 입력 전압) ← 효율은 우측 도표 참조

Rated figure of fuse=the Primary current of transformer/0.7~0.8 The Primary current of transformer =rated capacity/(efficiency×input Voltage)-refer to the table on the right hand side in terms of efficiency.

● Transformer Protection

Reasons of accident at transformer are error of transformer itself, error of load at the wiring linkage, error of electric power and increase of temperature etc.

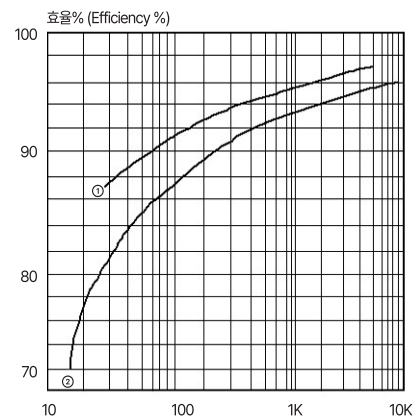
Error if transformer is directly related with fire and electric shock and proper and adequate measure therefore is required in order to use transformer easily. Particularly, electric current fuse, circuit-protector and protector electric circuit etc. are used. When electric current fuse, circuit-protector are selected, two cases should be considered.

One is when circuit protector does not operate for input current which is more than ten times of temporary normal current in case of thrust of electric current and the other is when circuit is completely intercepted in case of error.

Please select circuit-protector which meet two factors mentioned above at the same time. They are electric current fuse, time-lock fuse and transformer protector with initial feature in terms of circuit-protector.

When normal type and high speed type are used, precautions must be made if it operates in abnormal situation or occurs insufficiently. Method to calculate rated figure of fuse or protector are as below left formula.

● 정격출력-효율곡선(Rated Output Efficiency Curve)



정격출력 VA

Rated Output VA

① 단상단권 2:1 Single Phase (Single-winding)

② 단상복권 Single Phase (Double-winding)

2. 전원 트랜스의 사양 Specification

● 전원 트랜스의 용량

전원 트랜스의 용량은 2차 권선의 전압과 전류의 합계를 구합니다. 부하가 정류부하의 경우는 교류로 환산해야 하며 환산표를 참조 하기 바랍니다.

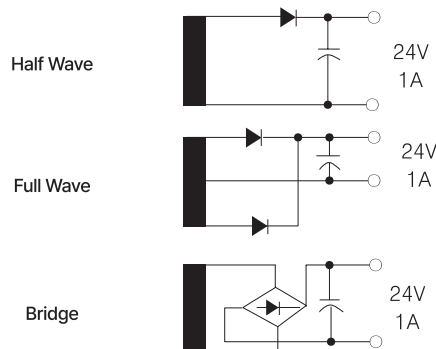
● Transformer Capacity

Concerning capacity of transformer is total including voltage and current of secondary winding. if DC load with rectifying circuit, please converting AC load refer below table.

정류방식 Type of Rectifier	회로 Schematic	
반파 Half Wave		$E_{ac} \approx E_{dc} \times 1.0$ $I_{ac} \approx I_{dc} \times 2.2$
양파 Full Wave		$E_{ac} \approx E_{dc} \times 0.8$ $I_{ac} \approx I_{dc} \times 1.0$
브릿지 Bridge		$E_{ac} \approx E_{dc} \times 0.8$ $I_{ac} \approx I_{dc} \times 1.6$
반파배전압 Half Wave Voltage Doubler		$E_{ac} \approx E_{dc} \times 0.45$ $I_{ac} \approx I_{dc} \times 3.3$

● 전원 트랜스의 크기

2차 회로의 전압과 전류로서 전원트랜스의 크기를 결정 한다고 사료 되지만 동일 출력 용량일 경우에 정류회로로서 전원 트랜스의 용량 크기는 어떻게 변화하는지 예를 들어 보겠습니다.



● Size of transformer

It has been known that size of transformer is decided by voltage and current of the secondary circuit. In case of identical output capacity, it will be described with relevant example how capacity of transformer varies as a rectifying circuit.

$$VA \approx 24V \times 2.2A \approx 52.8VA$$

$$VA \approx 38.4V \times 1A \approx 38.4VA$$

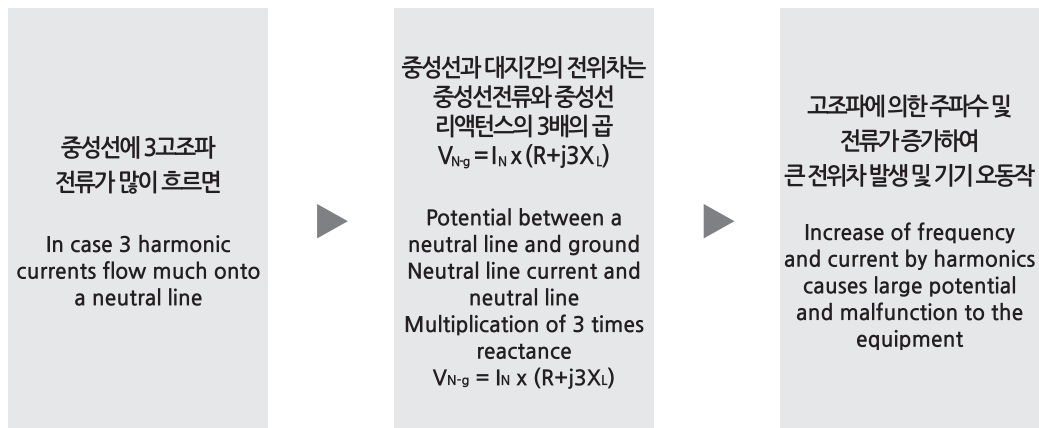
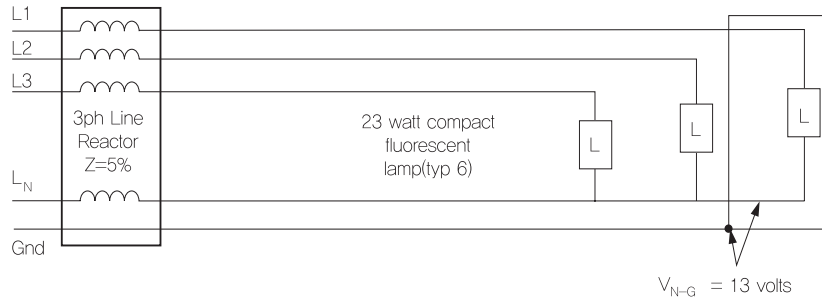
$$VA \approx 19.2V \times 1.6A \approx 30.7VA$$

상기와 같이 회로에 따라 전원 트랜스의 크기는 상당히 변하게 되므로 같은 방법으로 회로의 사용방법(단시간부하, 순간 부하등)에 의거 전원 트랜스는 소형이 되기 때문에 사양선택에 주의를 해야 합니다.

With above, size of transformer according to rectifying circuit that use changes. Also, size of transformer must observe in selection because can be decrescent therefore to use method (short duty load and fast transient load ext).

2. 전원 트랜스의 사양 Specification

● 대지전위 상승 Escalation of Ground Potential (Ground wave form)



● 절연 종별 허용 온도상승 (Allowable Temperature Rise Of Various Insulation Class)

Insulation (절연종별)	A(종) Class(A)	B(종) Class(B)	H(종) Class(H)
허용최고온도(절연물) (Allowable Max. Temperature)	105℃	130℃	180℃
허용상승온도(권선) (Allowable Tem. Rise)	60℃	80℃	120℃

※ Standard : IEC 61558-1

● 변압기 사용상태

- 주위온도 : $-5^{\circ}\text{C} \sim +48^{\circ}\text{C}$ (연간평균온도 20°C)
- 표고 : 1000m 이하
- 사용장소 : 옥내용

● Condition of Using Transformer

- ambient temperature : $-5^{\circ}\text{C} + 48^{\circ}\text{C}$ (yearly average temperature 20°C)
- Altitude : below 1000m
- Place of use : In house

2. 전원 트랜스의 사양 Specification

● 배선용 차단기의 적용

고조파를 포함한 전로에서 배선용 차단기를 적용하는 경우, 전류왜형파에 의한 특성변화와 온도상승을 고려해서 정격전류에 대해서 여유있게 결정할 필요가 있다.

일반적으로 안전하게 통전할 수 있는 부하전류는 각종요인을 고려하고, 배선용차단기 정격전류의 80%이하에서 선정하는 것을 권장하고 있다. 특히 왜형이 큰 경우, 예를 들면 열동전자형에서는 부하전류가 정격전류의 70% 이하가 되도록 배선용 차단기를 선정한다

● 변압기 권선 과열

- 변압기의 권선온도 상승

$$\Delta\theta_o = \Delta\theta_1 \times \left(\frac{I_e}{I_1}\right)^{1.6}$$

I_1 : 기본파전류

$\Delta\theta_1$: 기본파전류에 의한 권선온도 상승

$\Delta\theta_o$: 유입변압기의 온도 상승

I_e : 고조파전류를 포함한 등가전류

예) 고조파전류를 포함한 등가전류 800A, 기본파 전류 650A인 경우

$$\Delta\theta_o = \Delta\theta_1 \times (800/650)^{1.6} = \Delta\theta_1 \times 1.394$$

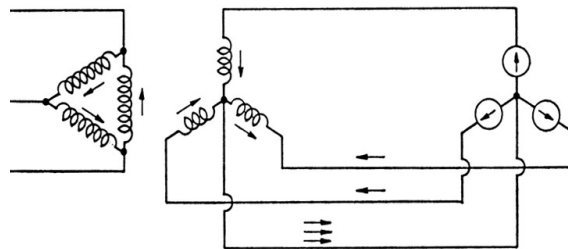
즉, 기본파전류에 의한 온도 상승보다 약 39% 증가한다.

또한 $\Delta\theta_1 = \Delta\theta_o \times 0.717$

그러므로, 기본파에 의한 온도상승 $\Delta\theta_1$ 은 고조파 전류를 제거하게 되면 약 28% 정도 온도상승이 감소하게 된다.

● 고조파 발생원

Source of Harmonics (THD)



● 주문 방법 (Ordering)

- 1) Phase : 1Ø, 3Ø (Connection)
- 2) Frequency : 50Hz, 60Hz
- 3) Winding : Single, Double winding
- 4) Primary Voltage And Tap Voltage
- 5) Secondary Voltage And Tap Voltage, Current(V, A, VA)
- 6) Voltage Regulation(%)
- 7) Secondary Voltage Tolerance(±%)
- 8) Insulation Resistance(>10MΩ at DC 500V)
- 9) Dielectric With Standing Voltage(AC kV/1min)

● Application of circuit brake

In case of implementing a circuit brake in electrical circuit with harmonic frequencies included it needs to be decisive sufficient on the rated current in consideration of characteristic change and temperature increase upon distorted current wave. It is generally recommended that the load current which is generally conductive in safe can be selected below 80% of the rated current of the circuit brake with consideration of various factors. Especially for large size like thermodynamic for an example, the circuit brake is selected with the load current below 70% of the rated current.

● Transformer winding overheat

- Increase of temperature from windings on transformer

I_1 : Sinusoidal Wave Current

$\Delta\theta_1$: Winding temperature increase by sinusoidal wave current

$\Delta\theta_o$: Temperature increase of oil-immersed transformer

I_e : equivalent currents with harmonic currents included.

i.e.) Equivalent current is 800A including harmonic current, and sinusoidal wave current is 650A.

$$\Delta\theta_o = \Delta\theta_1 \times (800/650)^{1.6} = \Delta\theta_1 \times 1.394$$

In other word, temperature increases by approx. 39% rather than that by sinusoidal wave current.

Also $\Delta\theta_1 = \Delta\theta_o \times 0.717$

Therefore, temperature increase $\Delta\theta_1$ by sinusoidal wave current decreases by approx. 28% if harmonic current is removed.

● How to Order (Ordering)

- 1) Phase : 1Ø, 3Ø (Connection)
- 2) Frequency : 50Hz, 60Hz
- 3) Winding : Single, Double winding
- 4) Primary Voltage And Tap Voltage
- 5) Secondary Voltage And Tap Voltage, Current(V, A, VA)
- 6) Voltage Regulation(%)
- 7) Secondary Voltage Tolerance(±%)
- 8) Insulation Resistance(>10MΩ at DC 500V)
- 9) Dielectric With Standing Voltage(AC kV/1min)

3. Terminal Block Specification 표준형(Standard Type)

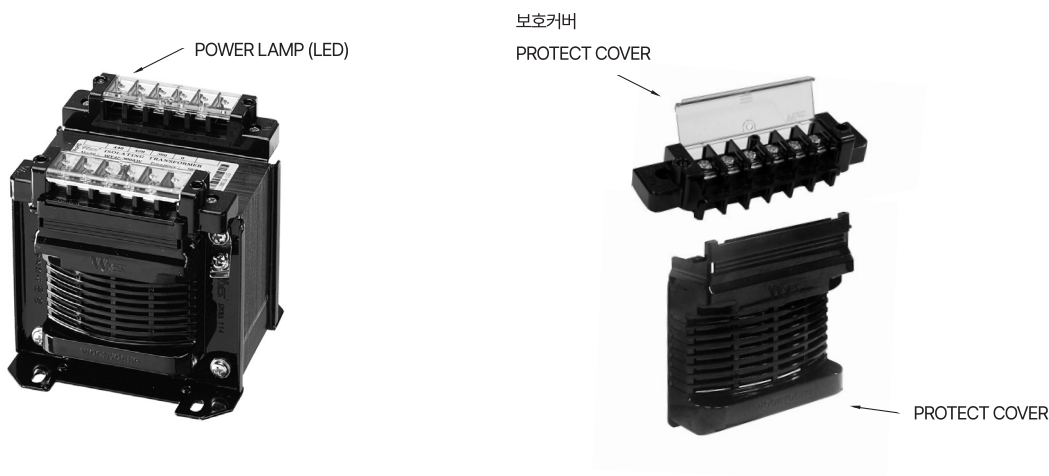
● Terminal Specification

- Rating Current : 600V/10A~100A (Max)
- 절연저항(Insulation Resistance) : More Than 100 MΩ DC500V
- 내전압(Withstand Voltage) : AC 2500V / Min
- 단자볼트(Wire Banding Bolt) : M3.5~M6 Bolt
- Recognized UL No. : XCTR2/8. E527488

● Standard & Approval

- UL 5085-1/2
- UL 1059(Terminal Block)
- EN 61558

● 표준형 UL 승인 단자대 형상(External Appearance of Standard Terminal Block)



● 전압, 전류, 용량별 단자대 및 볼트형태 구분표

(Terminal and Bolt Type Compare Chart Of Voltage, Current and Capacity.)

단자호칭 (Terminal Designation)	전류 (A)	형상 (Fig)	Voltage		단자폭 (L)	볼트 (M)	단자볼트 (Terminal Bolt)	적용전선 (Suitable Wire)	단자규격 (Ring Terminal Standard)	적용용량(VA) (Capacity Standard)	
			Pri. (V)	Sec. (V)						복권 (Double)	단권 (Single)
76.2	0.5~1.3	1	220V ~ 460V	110V ~ 220V	7.0	3.5	3.5 x 7.0mm	0.9mm ²	1.5-6.0Ø	40~150VA	75~300VA
105	1.0~3.0	2			8.0	4	4.0 x 8.0mm	0.9mm ² ~ 1.5mm ²	1.5-8.0Ø	200~300	500
135	2.5~10	3			8.5	4	4.0 x 9.0mm	1.5mm ² ~ 4.0mm ²	1.5-8.0Ø ~ 4.0-8.0Ø	500	1K
152	3.5~45	4			12.0	4	4.0 x 9.0mm	1.5mm ² ~ 16mm ²	1.5-10Ø ~ 16-10Ø	750~5K	2K~10K
대용량 (High Curr.)	35~90	5			20.0	6	6 x 11mm	16mm ² ~ 35mm ²	16-10Ø ~ 35-16Ø	7.5K~15K	15K~30K
	100	-			23.0	8	8 x 12mm	35mm ²	35-16Ø	30K~50K	30K~50K
	150	-			26.0	8	8 x 15mm	50mm ²	50-20Ø	50K	50K
	200	-			28.0	10	10 x 15mm	95mm ²	95-20Ø	75K	75K

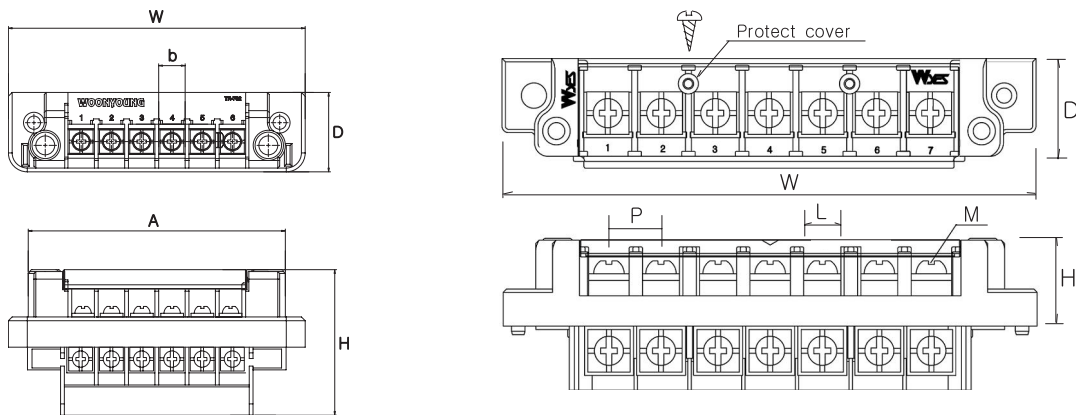
4. Terminal Block Dimension 표준형(Standard Type)

● UL 승인 단자대 치수 (Terminal Block Dimension)

● 정격 (Rating)

단자대종류 Terminal Designation	복권 Dobule Winding type(VA)		단권 Single Winding type(VA)		Type
76.2 	1Ø	40~150	1Ø	75~300	Fig1
	3Ø	—	3Ø	—	
105 	1Ø	200~300	1Ø	500	Fig2
	3Ø	—	3Ø	—	
135 	1Ø	500	1Ø	1K	Fig3
	3Ø	100~300	3Ø	200~500	
152 	1Ø	750~5K	1Ø	2K~10K	Fig4
	3Ø	500~10K	3Ø	1K~15K	
180 	1Ø	3K~7.5K	1Ø	5K~15K	Fig5
	3Ø	3K~10K	3Ø	5K~20K	
220 	1Ø	7.5K~20K	1Ø	15K~30K	Fig6
	3Ø	15K~30K	3Ø	30K~40K	

● Dimension



Unit : mm

Type	Dimension					
	W	H	D	P	L	M
Fig1 (76.2)	78	20.5	21	8	7	3.5 x 7
Fig2 (105)	112	21	28	11	8	4 x 8
Fig3 (135)	140	20	31	12	8.5	4 x 8
Fig4 (152)	159	26	32.5	16	12	4 x 9
Fig5 (180)	184	34	38	20	16	6 x 12
Fig6 (220)	220	38	41	23	20	6 x 11

3. Terminal Block Specification

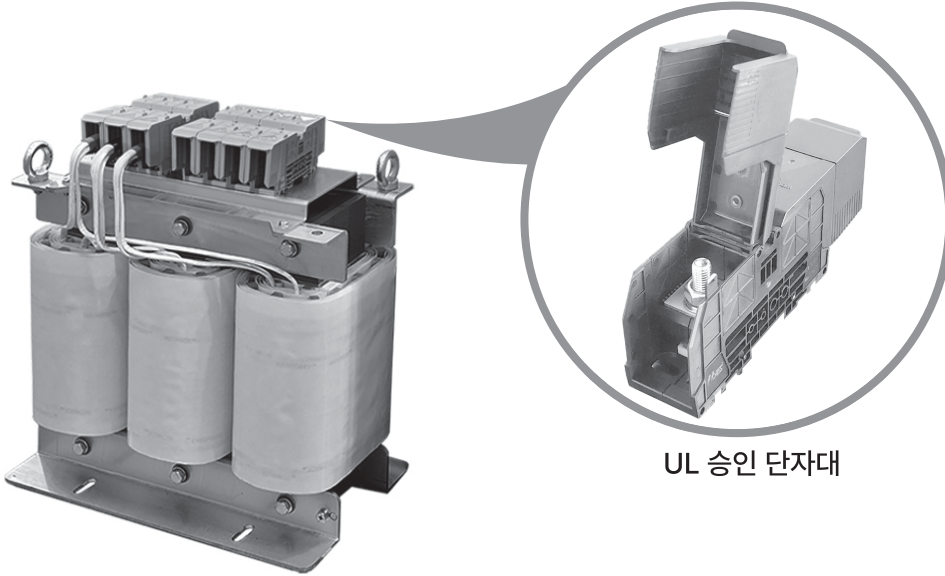
● Terminal Specification

- Rating Current : 600V/10A~100A (Max)
- 절연저항(Insulation Resistance) : More Than 100 MΩ DC500V
- 내전압(Withstand Voltage) : AC 2500V / Min
- 단자볼트(Wire Banding Bolt) : M8~M10 Bolt
- Recognized UL No. : XCTR2/8. E527488

● Standard & Approval

- UL 5085-1/2
- UL 1059(Terminal Block)
- EN 61558

● UL 승인 단자대 형상(External Appearance of Terminal Block)



UL 승인 단자대

● 전압, 전류, 용량별 단자대 및 볼트형태 구분표

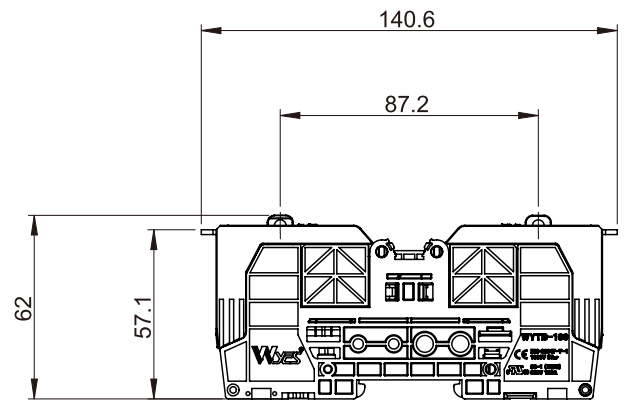
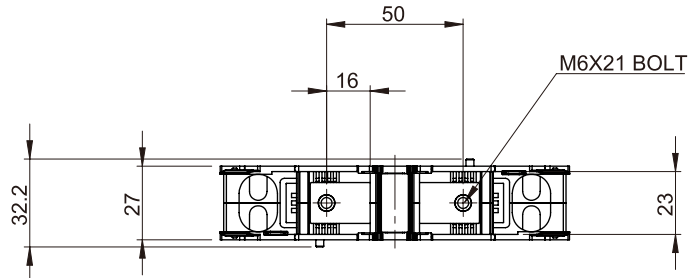
(Terminal and Bolt Type Compare Chart Of Voltage, Current and Capacity.)

Cat. No.	Type	Wire Range		Voltage [VAC]	Current		단자볼트 (Terminal Bolt)	단자폭 (Terminal Width)
		(UL)	(IEC)		(UL)	(IEC)		
WYTB-100	Din	30~1AWG	~35mm ²	Max. 600	130	125	M6	23mm
WYTB-200		30~2/0AWG	~70mm ²		175	192	M8	28mm
WYTB-300		30AWG~350kcmil	~185mm ²		310	310	M10	39mm

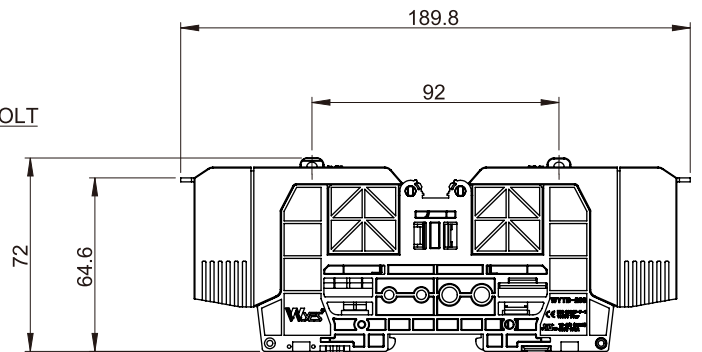
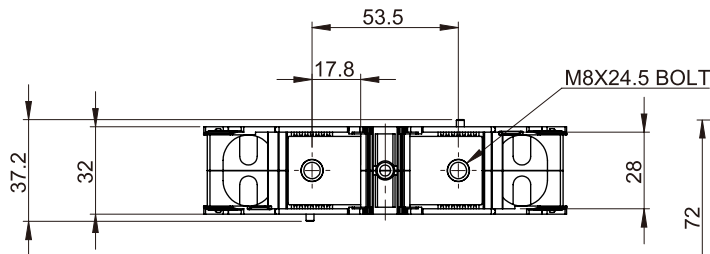
4. Terminal Block Dimension

● UL 단자대 치수 (Terminal Block Dimension)

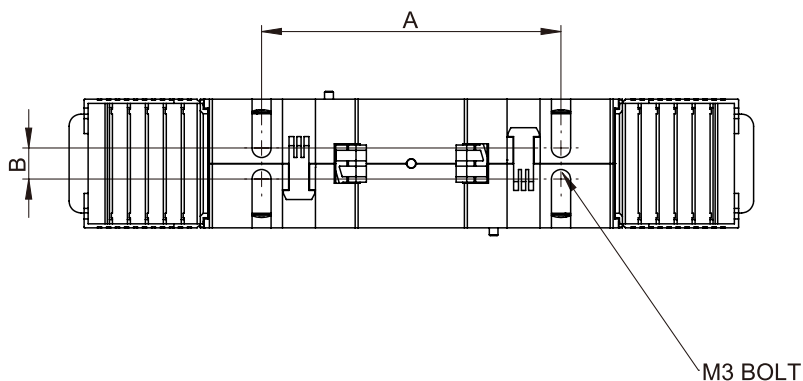
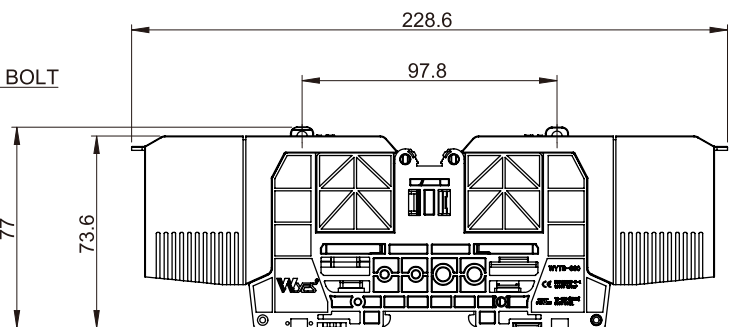
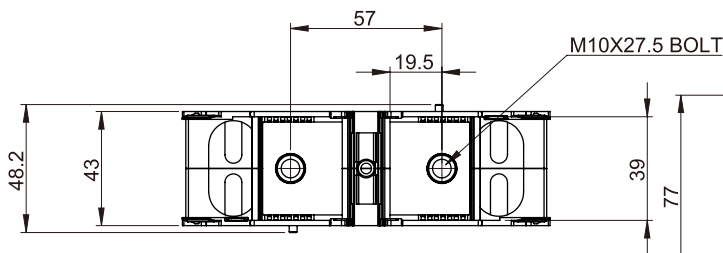
• WYTB-100



• WYTB-200



• WYTB-300



	A	B
TB-100	100	8.4
TB-200		10.4
TB-300		

5. 전원 트랜스 취부방법 Mounting Method of Transformer

● 트랜스 취부방법

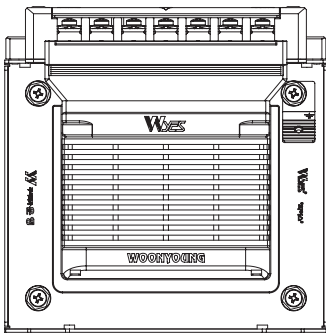
WT, WO 의 제품중에 종전에는 Bolt와 Nut를 사용하여 전면 취부하였으나 본 제품은 Panel의 속판을 사용하는 경우에는 Bolt와 Nut의 체결방법은 물론이고 그림과 같이 후면에서 취부할 수 있도록 제품의 커버에 m/m 탭을 추가하여 설계 되어 있으므로 참고 하시어 사용 바랍니다.

● Mounting Method of Transformer

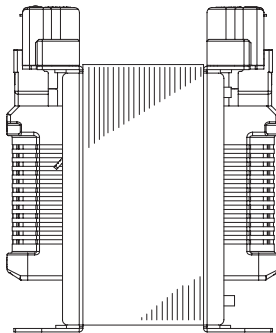
Conventionally, bolt and nut are used for bracket in terms of WT, WO product. But for this product, m/m tap is added to the cover of the product in order to bracket bolt/nut but also from the back as indicated in the picture.

● WT Type 의 취부 예 (Mounting Example for WT Type)

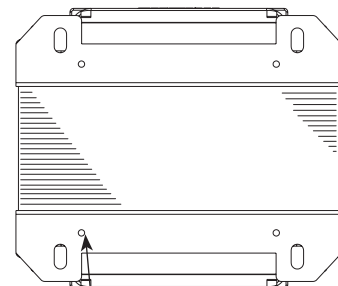
FRONT VIEW



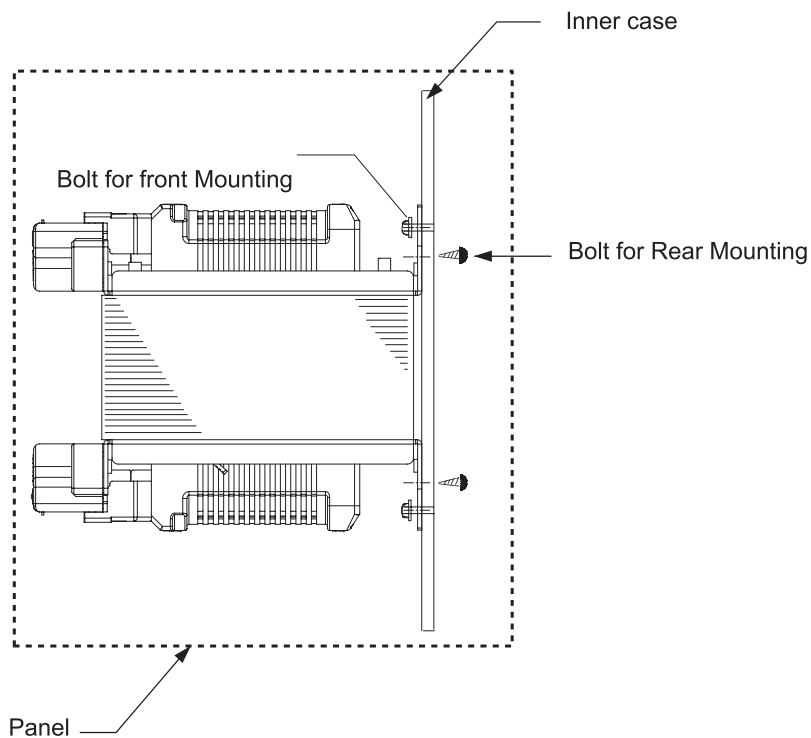
SIDE VIEW



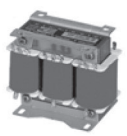
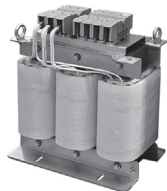
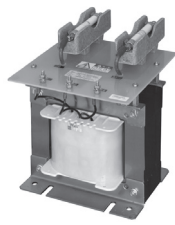
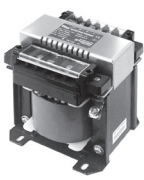
BOTTOM VIEW



4- Φ 3.6~4.3 Hole



6. 타입별 형상 Shape of Types

PULSE TYPE 	WP TYPE 	CT TYPE 
WB TYPE 	DIN-Rail TYPE 	WE TYPE 
WO TYPE 	W3PO TYPE 	WT TYPE 
W3PT TYPE 	WYC TYPE 	WPT TYPE (3.3kV~6.6kV 고압 FUSE 부착) 
WDC TYPE (DC Output) 	FUSE 부착 FD TYPE (FUSE) 	NOISE CUT TRANSFORMER (NCT) 

● Model Type

- WB WOON YOUNG BAND SOLDER TYPE (밴드카바 납땜형)
- WP WOON YOUNG PCB MOUNT TYPE (기판 삽입형)
- WT WOON YOUNG TERMINAL BLOCK TYPE (단자대형)
- WE WOON YOUNG ENCLOSURE LEAD WIRE TYPE
(리드와이어 및 권선보호 덮개형)
- W3PT ... WOON YOUNG 3-POLE TERMINAL BLOCK TYPE(3Ø 단자대형)
- WO WOON YOUNG OPEN COVER SOLDER TYPE (카바 납땜형)
- WMT ... WOON YOUNG MOLDING TERMINAL BLOCK TYPE (몰딩 단자대형)
- W3PO ... WOON YOUNG 3-POLE SOLDER TYPE (3Ø 납땜형)
- DC WOON YOUNG DC POWER SUPPLY

7. 조건표 Chart of Type

TRANSFORMER			SERIES	PRIMARY (V)	SECONDARY (V)	SAFETY STANDARDS	PAGE
	1,3Phase	UL Type	WY11-UL	100~120	100~120	CE .UL _{US}	28
			WY12-UL	100~240	100~240	CE .UL _{US}	29,30
			WY21-UL	200~240	100~120	CE .UL _{US}	31,32
			WY22-UL	200~240	200~240	CE .UL _{US}	33,34
			WY24-UL	200~480	380~480	CE .UL _{US}	35,36
			WY41-UL	380~480	100~120	CE .UL _{US}	37,38
			WY42-UL	380~480	200~240	CE .UL _{US}	39,40
			WY3P22-UL	200~240	200~220	CE .UL _{US}	41,42
			WY3P22D-UL	200~220	200~240	CE .UL _{US}	43,44
			WY3P24D-UL	200~220	380~480	CE .UL _{US}	45,46
			WY3P42-UL	380~480	200~220	CE .UL _{US}	47,48
			WY3P42D-UL	380~480	200~240	CE .UL _{US}	49,50
			WY3P44D-UL	380~480	380~480	CE .UL _{US}	51,52
	1Phase	FUSE Type	WY2224-FD	220	24, 0-24 / 0-24	CE	56
			WY2211-FD	220	110	CE	57
			WY2222-FD	220	220	CE	58
			WY3811-FD	380	110	CE	59
			WY3822-FD	380	220	CE	60
			WY4411-FD	440	110	CE	61
			WY4422-FD	440	220	CE	62
	1Phase	DIN-Rail Type 복권식	WY2224-TD	220	24, 0-24 / 0-24	CE	64
			WY2211-TD	220	110	CE	65
			WY2222-TD	220	220	CE	66
			WY3811-TD	380	110	CE	67
			WY3822-TD	380	220	CE	68
			WY4411-TD	440	110	CE	69
			WY4422-TD	440	220	CE	70

7. 조건표 Chart of Type

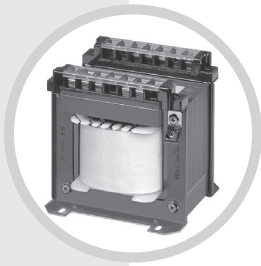
TRANSFORMER

		SERIES	PRIMARY (V)	SECONDARY (V)	SAFETY STANDARDS	PAGE		
1Phase	General Type 경제형	WY2224-AP	220	0-24-(E)	CE	72		
		WY2211-A	220	0-110-(E)	CE	73		
		WY3822-AW	380	0-220-(E)	CE	74		
		WY4422-AW	440	0-220-(E)	CE	75		
	Isolation Transformer 복권식	WYPM	0-110-220		6~18	CE	78	
		WYSH	0-110-220		5~50	CE	79,80	
		WYTB-AP	0-110-200-220-(E)		6~50	CE	81,82,83	
		WYEW-AP	220, 380, 440		0-24	CE	84	
		WYHP-APT	220, 380, 440		12~26	CE	85	
		WY21-AT	0-200-220-240(E)		100~120	CE	86	
		WY21-AO	0-200-220-240		0-100-110	CE	87	
		WY21-AE	0-220		0-24	CE	88	
		WY21-A2T	0-200-220-240(E)		12~110	CE	89	
		WY11-AF	0-90-100-110-(E)		0-100-110-120	CE	90	
		WY22-AF	0-200-220		0-210-220-230-(E)	CE	91	
		WY22-FC	0-210-220-230-(E)		115~230	CE	92	
		WY42-FC	0-380-420-440-(E)		115~230	CE		
		WY41-60A	0-380-420-440-460-480		0-100-110-120-(E)	CE	93	
		WY42-AW	0-380-420-440		0-110-200-220-(E)	CE	94	
		WY42-KAW	0-380-420-440		0-110-200-220-(E)	CE	95	
		WY42-AO	0-380-420-440-460		0-110-200-220-240-(E)	CE	96	
		WY42-A2	0-380-420-440-460-(E)		12~24, 110~330	CE	97	
		WY42-DE	0-380-440		0-220	CE	98	
		WY52-AW	0-440-460-480-500		0-110-220-(E)	CE	99	
		WYAU-D	0-100-110-200-220-240			CE	102	
		Auto. Transformer 단권식	WYAU-DO	0-100-110-200-220-240			CE	103
			WYAU-DE	0-220	0-220		CE	104
			WYAU-DW	0-110-220-380-420-440-460			CE	105
			WYAU-DWO	0-110-220-380-420-440-460			CE	106
			WYAU-DEW	0-380-440	0-220		CE	107
	3Phase		Isolation /Auto.Transformer 복권식 / 단권식	WY3P-W	380-440	220	CE	110
		WY3P-AU		N-220-380-440			CE	111
		1Ø, 3Ø In Case Type	WY21C-KA	0-220	0-110		CE	114
			WY42C-KA	0-380-440	0-110-220-(E)		CE	
			WY21CM-KA	0-220	0-110		CE	115
			WY42CM-KA	0-380-440	0-220-(E)		CE	
			WY21C-KD	0-110-220			CE	116
			WY42C-KD	0-220-380-440			CE	
			WY3PC-KW	380-440	220		CE	117
			WY3PCM-KW	380-440	220		CE	118
			WY3PC-KAU	220-380-440				119
		Etc.	DC Power Transformer					122
			High Voltage Type (3.3kV~6.6kV) Transformer					124
			Synchro Phase Control Transformer					125
			Pulse Transformer					126
	Current Transformer (Sensor)					127		

TRANSFORMER
트랜스포머
리액터
무정전압레일
전력조정기
스위칭파워
노이즈필터
하모닉필터
서지보호기
보호계전기
누전경보기
영상변류기
판넬메타
계기용변성기
선풍팬

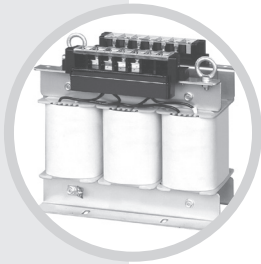
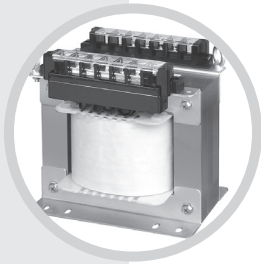
단상, 삼상 UL인증 트랜스포머

1Ø, 3Ø UL TYPE TRANSFORMER



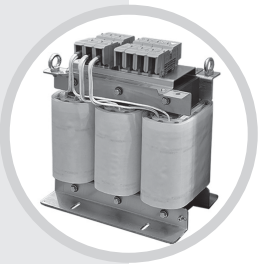
Single phase Transformer

- WY11 – UL Series
- WY12 – UL Series
- WY21 – UL Series
- WY22 – UL Series
- WY24 – UL Series
- WY41 – UL Series
- WY42 – UL Series



Three phase Transformer

- WY3P22 – UL Series
- WY3P22D – UL Series
- WY3P24D – UL Series
- WY3P42 – UL Series
- WY3P42D – UL Series
- WY3P44D – UL Series



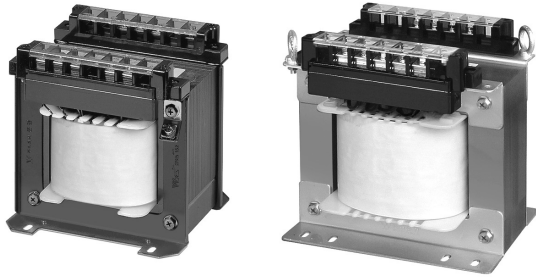
UL TYPE TRANSFORMER

WY11-UL Series WT Type

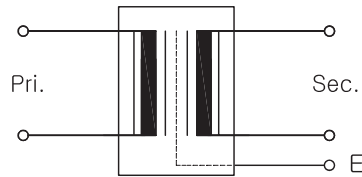
UL 인증

단상 복권형으로 일반 전원 공급용 제품이며 전 규격을 **UL** **CE** 인증 받아 신뢰성과 안전성을 동시에 확보한 제품입니다.

The product, which is a single phase isolation transformer general electric source, has been **UL** **CE** certified for its proven reliability and safety.



• Circuit Diagram



● Standard & Approval

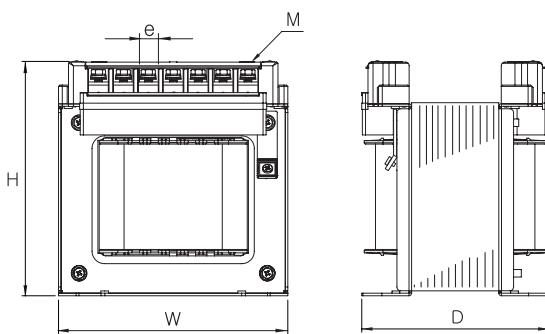
- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

● Specifications

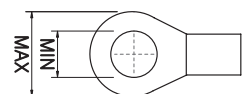
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)										WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	Ø	M	
WY11-100UL	WT	①100 ②110 ③115 ④120	①100 ②110 ③115 ④120	100	98.4	105.9	113	72	92	98.4	113	7	6 x 12	3.5	3.23
WY11-200UL				200	120	121.5	114	84	95	120	114	10	5.5 x 10	4	4.95
WY11-300UL				300	140	136.5	126.2	97.9	106	140	126.2	10	6 x 12	4	7.25
WY11-500UL				500	160.2	161.1	146	114	124	160.2	146	10	6 x 13	4	10.70
WY11-750UL				750	160.2	161.1	156	114	134	160.2	156	10	6 x 13	4	12.30
WY11-1KUL				1K	184	188	150	133.8	122	184	150	10	7 x 14	4	16.65
WY11-1.5KUL				1.5K	184	188	170	133.8	142	184	170	16	7 x 14	6	20.75
WY11-2KUL				2K	219	226	169	180	135	219	172	16	7 x 15	6	26.80
WY11-2.5KUL				2.5K	243	247	192	180	165	243	192	16	9 x 19	6	39.00
WY11-3KUL				3K	243	247	192	180	165	243	192	16	9 x 19	6	40.20
WY11-5KUL				5K	270	269	200	180	170	270	200	16	9 x 19	6	54.00

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



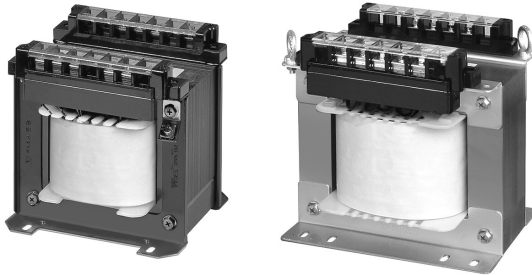
100VA : Max 6, Min 3.5
200VA~1kVA : Max 9, Min 4
1.5~5kVA : Max 15, Min 6
7.5kVA : Max 23, Min 6
10kVA : Max 25, Min 6

UL TYPE TRANSFORMER

WY12-UL Series WT Type



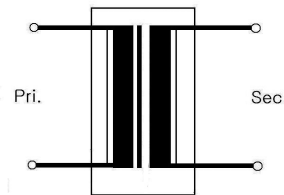
UL 인증



단상 복권형으로 일반 전원 공급용 제품이며 전 규격을 인증 받아 신뢰성과 안전성을 동시에 확보한 제품입니다.

The product, which is a single phase isolation transformer general electric source, has been certified for its proven reliability and safety.

•Circuit Diagram



● Standard & Approval

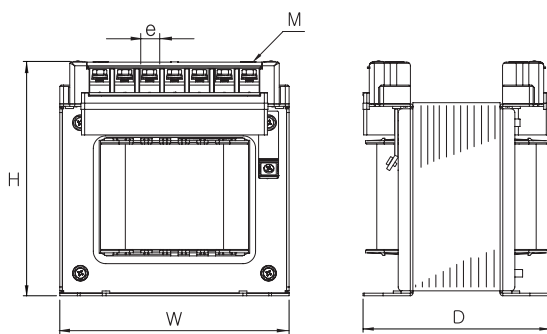
- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

● Specifications

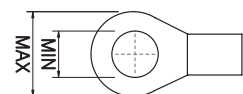
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)										WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	Ø	M	
WY12-100UL	WT	①100 ②110 ③115 ④120	①200 ②208 ③220 ④230 ⑤240	100	98.4	105.9	113	72	92	98.4	113	7	6 x 12	3.5	3.23
WY12-200UL				200	120	121.5	114	84	95	120	114	10	5.5 x 10	4	4.95
WY12-300UL				300	140	136.5	126.2	97.9	106	140	126.2	10	6 x 12	4	7.25
WY12-500UL				500	160.2	161.1	146	114	124	160.2	146	10	6 x 13	4	10.70
WY12-750UL				750	160.2	161.1	156	114	134	160.2	156	10	6 x 13	4	12.30
WY12-1KUL				1K	184	188	150	133.8	122	184	150	10	7 x 14	4	16.65
WY12-1.5KUL				1.5K	184	188	170	133.8	142	184	170	16	7 x 14	6	20.75
WY12-2KUL				2K	219	226	169	180	135	219	172	16	7 x 15	6	26.80
WY12-3KUL				3K	243	247	192	180	165	243	192	16	9 x 19	6	40.20
WY12-5KUL				5K	270	269	200	180	170	270	200	16	9 x 19	6	54.00

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal

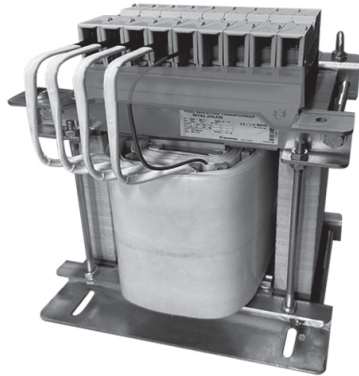


100VA : Max 6, Min 3.5
200VA~1kVA : Max 9, Min 4
1.5~5kVA : Max 15, Min 6
7.5kVA : Max 23, Min 6
10kVA : Max 25, Min 6

UL TYPE TRANSFORMER

WY12-UL Series WT Type

UL 인증

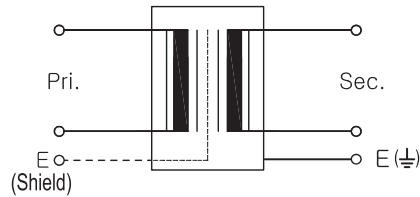


*참조 이미지는 1차, 2차 단일 TAP 기준 제작시 이미지입니다.
다수 TAP 적용시 형상이 변경될수 있습니다. (터미널 블록 고정식 단자대 적용)

단상 복권형으로 일반 전원 공급용 제품이며 전 규격을 UL[®] CE 인증 받아 신뢰성과 안전성을 동시에 확보한 제품입니다.

The product, which is a single phase isolation transformer general electric source, has been UL[®] CE certified for its proven reliability and safety.

• Circuit Diagram



● Standard & Approval

- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

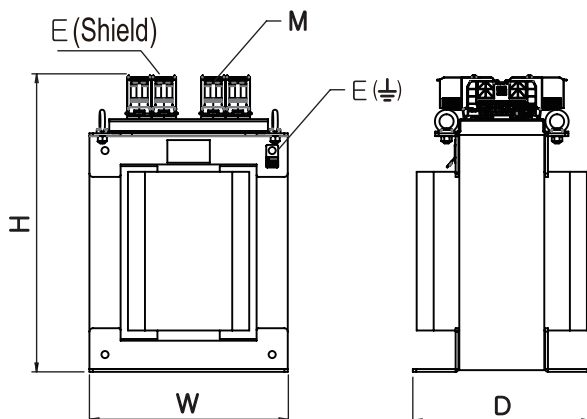
● Specifications

Insulation Class H

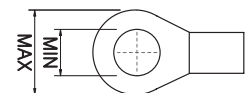
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	Ø	E(Shield)	E(⏏)	M	
WY12-7.5KUL	WT	①100 ②110 ③115 ④120	①200 ②208 ③220 ④230 ⑤240	7.5k	270	397	203	180	173	11 x 35	M6	M5	M8	70.00
WY12-10KUL				10k	310	411	215	219	167	13 x 40	M6	M5	M8	85.00
WY12-15KUL				15k	330	403	269	240	210	11 x 35	M6	M5	M8	110.00
WY12-20KUL				20k	330	438	279	240	220	11 x 35	M6	M5	M10	130.00
WY12-30KUL				30k	350	523	314	250	245	13 x 40	M6	M5	M10	195.00

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



7.5~15kVA : Max 28, Min 8
20~30kVA : Max 39, Min 10

UL TYPE TRANSFORMER

WYES[®]
산업용변압기

WY21-UL Series WT Type



RoHS

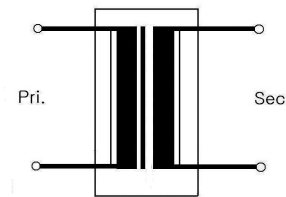
UL 인증

단상 복권형으로 일반 전원 공급용 제품이며 전 규격을 인증 받아 신뢰성과 안전성을 동시에 확보한 제품입니다.

The product, which is a single phase isolation transformer general electric source, has been certified for its proven reliability and safety.



• Circuit Diagram



● Standard & Approval

- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

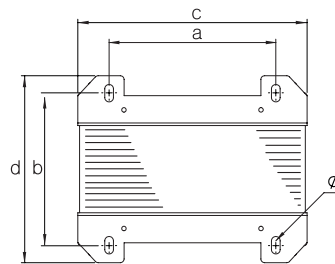
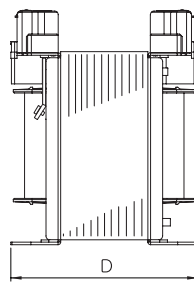
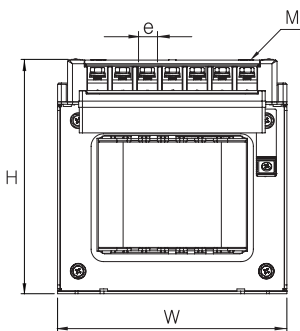
● Specifications

Insulation Class H

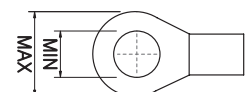
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)										WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	Ø	M	
WY21-100UL	WT	①200 ②208 ③220 ④230 ⑤240	①100 ②110 ③115 ④120	100	98.4	105.9	113	72	92	98.4	113	7	6 x 12	3.5	3.23
WY21-200UL				200	120	121.5	114	84	95	120	114	10	5.5 x 10	4	4.95
WY21-300UL				300	140	136.5	126.2	97.9	106	140	126.2	10	6 x 12	4	7.25
WY21-500UL				500	160.2	161.1	146	114	124	160.2	146	10	6 x 13	4	10.70
WY21-750UL				750	160.2	161.1	156	114	134	160.2	156	10	6 x 13	4	12.30
WY21-1KUL				1K	184	188	150	133.8	122	184	150	10	7 x 14	4	16.65
WY21-1.5KUL				1.5K	184	188	170	133.8	142	184	170	16	7 x 14	6	20.75
WY21-2KUL				2K	219	226	169	180	135	219	172	16	7 x 15	6	26.80
WY21-3KUL				3K	243	247	192	180	165	243	192	16	9 x 19	6	40.20
WY21-5KUL				5K	270	269	200	180	170	270	200	16	9 x 19	6	54.00

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



100VA : Max 6, Min 3.5
200VA~1kVA : Max 9, Min 4
1.5~5kVA : Max 15, Min 6
7.5kVA : Max 23, Min 6
10kVA : Max 25, Min 6

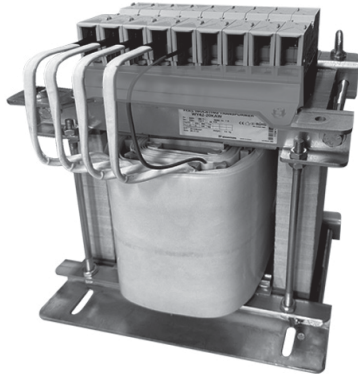
트랜스포머
TRANS= NCT
리액터
REACTOR
무정전압 레이
SSR
전력조정기
TPR
스위칭파워
SMP S
노이즈 필터
N/F
하모닉 필터
H/F
서지보호기
SPD
보호계전기
RELAY
누전경보기
ELD= GFR
영상변류기
ZCT
판넬메타
METER
계기용변성기
CT= VT
선풍팬
SHUNT= FAN

UL TYPE TRANSFORMER

WY21-UL Series WT Type



UL 인증

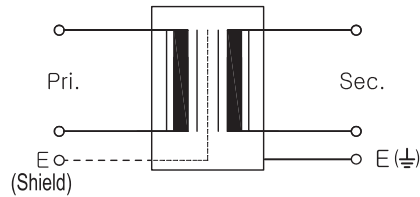


*참조 이미지는 1차, 2차 단일 TAP 기준 제작시 이미지입니다.
다수 TAP 적용시 형상이 변경될수 있습니다. (터미널 블록 고정식 단차대 적용)

단상 복권형으로 일반 전원 공급용 제품이며 전 규격을 **UL** **CE** 인증 받아 신뢰성과 안전성을 동시에 확보한 제품입니다.

The product, which is a single phase isolation transformer general electric source, has been **UL** **CE** certified for its proven reliability and safety.

• Circuit Diagram



● Standard & Approval

- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

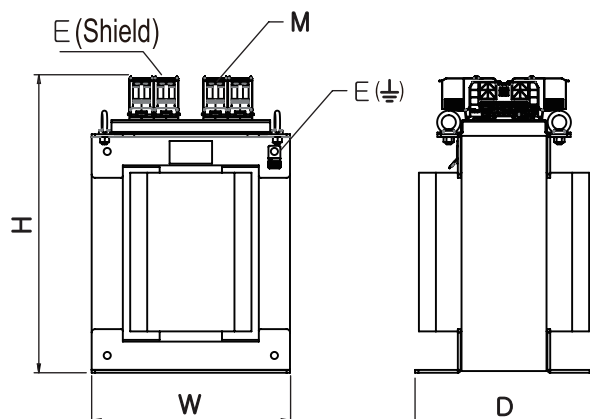
● Specifications

Insulation Class H

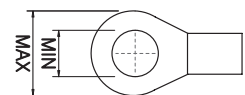
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	Ø	E(Shield)	E(⏏)	M	
WY21-7.5KUL	WT	①200 ②208 ③220 ④230 ⑤240	①100 ②110 ③115 ④120	7.5k	270	397	203	180	173	11 x 35	M6	M5	M8	70.00
WY21-10KUL				10k	310	411	215	219	167	13 x 40	M6	M5	M8	85.00
WY21-15KUL				15k	330	403	269	240	210	11 x 35	M6	M5	M8	110.00
WY21-20KUL				20k	330	438	279	240	220	11 x 35	M6	M5	M10	130.00
WY21-30KUL				30k	350	523	314	250	245	13 x 40	M6	M5	M10	195.00

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



7.5~15kVA : Max 28, Min 8
20~30kVA : Max 39, Min 10

UL TYPE TRANSFORMER

WYES[®]
산업용변압기

WY22-UL Series WT Type

UL[®] US CE RoHS

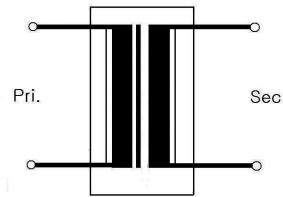
UL 인증



단상 복권형으로 일반 전원 공급용 제품이며 전 규격을 UL[®] CE 인증 받아 신뢰성과 안전성을 동시에 확보한 제품입니다.

The product, which is a single phase isolation transformer general electric source, has been UL[®] CE certified for its proven reliability and safety.

•Circuit Diagram



● Standard & Approval

- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

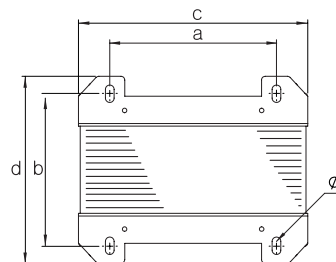
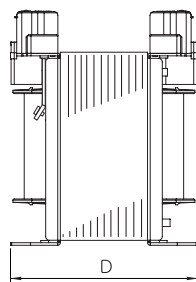
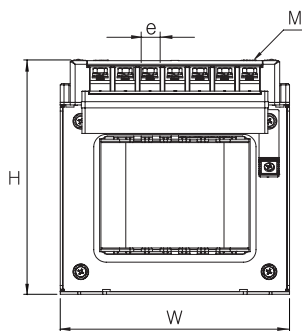
● Specifications

Insulation Class H

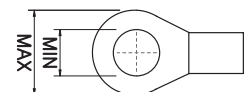
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)										WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	Ø	M	
WY22-100UL	WT	①200 ②208 ③220 ④230 ⑤240	①200 ②208 ③220 ④230 ⑤240	100	98.4	105.9	113	72	92	98.4	113	7	6 x 12	3.5	3.23
WY22-200UL				200	120	121.5	114	84	95	120	114	10	5.5 x 10	4	4.95
WY22-300UL				300	140	136.5	126.2	97.9	106	140	126.2	10	6 x 12	4	7.25
WY22-500UL				500	160.2	161.1	146	114	124	160.2	146	10	6 x 13	4	10.70
WY22-750UL				750	160.2	161.1	156	114	134	160.2	156	10	6 x 13	4	12.30
WY22-1KUL				1K	184	188	150	133.8	122	184	150	10	7 x 14	4	16.65
WY22-1.5KUL				1.5K	184	188	170	133.8	142	184	170	16	7 x 14	6	20.75
WY22-2KUL				2K	219	226	169	180	135	219	172	16	7 x 15	6	26.80
WY22-3KUL				3K	243	247	192	180	165	243	192	16	9 x 19	6	40.20
WY22-5KUL				5K	270	269	200	180	170	270	200	16	9 x 19	6	54.00

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal

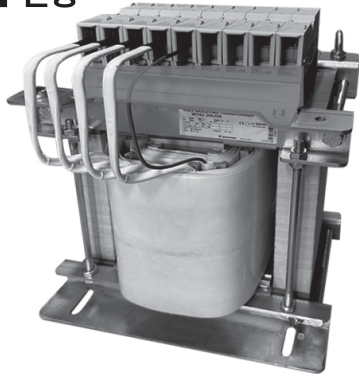


100VA : Max 6, Min 3.5
200VA~1kVA : Max 9, Min 4
1.5~5kVA : Max 15, Min 6
7.5kVA : Max 23, Min 6
10kVA : Max 25, Min 6

UL TYPE TRANSFORMER

WY22-UL Series WT Type

UL 인증

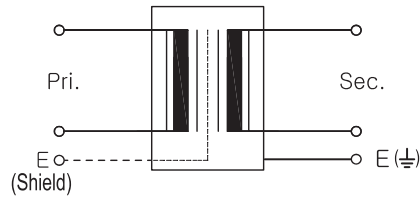


*참조 이미지는 1차, 2차 단일 TAP 기준 제작시 이미지입니다.
다수 TAP 적용시 형상이 변경될수 있습니다. (터미널 블록 고정식 단차대 적용)

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The product, which is a single phase isolation transformer general electric source, has been **UL** **CE** certified for its proven reliability and safety.

• Circuit Diagram



● Standard & Approval

- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

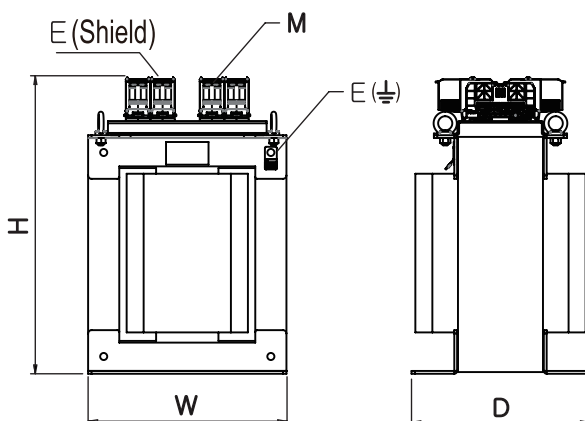
● Specifications

Insulation Class H

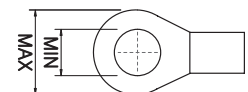
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	Ø	E(Shield)	E(⏏)	M	
WY22-7.5KUL	WT	①200 ②208 ③220 ④230 ⑤240	①200 ②208 ③220 ④230 ⑤240	7.5k	270	397	203	180	173	11 x 35	M6	M5	M8	70.00
WY22-10KUL				10k	310	411	215	219	167	13 x 40	M6	M5	M8	85.00
WY22-15KUL				15k	330	403	269	240	210	11 x 35	M6	M5	M8	110.00
WY22-20KUL				20k	330	438	279	240	220	11 x 35	M6	M5	M10	130.00
WY22-30KUL				30k	350	523	314	250	245	13 x 40	M6	M5	M10	195.00

* 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



7.5~15kVA : Max 28, Min 8
20~30kVA : Max 39, Min 10

UL TYPE TRANSFORMER

WYES
산업용변압기

WY24-UL Series WT Type

UL **CE** **RoHS**

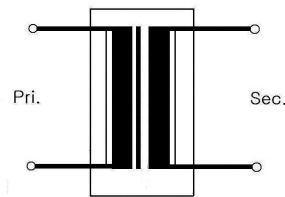
UL 인증



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The product, which is a single phase isolation transformer general electric source, has been **UL** **CE** certified for its proven reliability and safety.

• Circuit Diagram



● Standard & Approval

- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

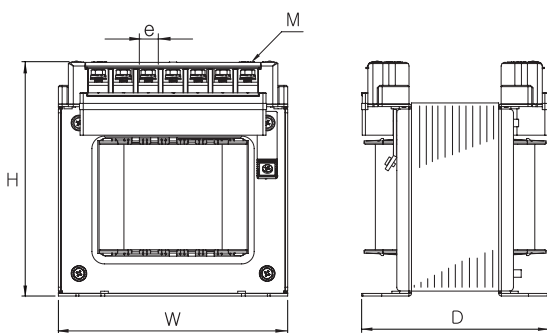
● Specifications

Insulation Class H

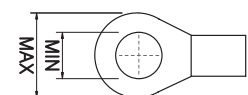
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)										WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	Ø	M	
WY24-100UL	WT	①200 ②208 ③220 ④230 ⑤240	①380 ②400 ③415 ④440 ⑤460 ⑥480	100	98.4	105.9	113	72	92	98.4	113	7	6 x 12	3.5	3.23
WY24-200UL				200	120	121.5	114	84	95	120	114	10	5.5 x 10	4	4.95
WY24-300UL				300	140	136.5	126.2	97.9	106	140	126.2	10	6 x 12	4	7.25
WY24-500UL				500	160.2	161.1	146	114	124	160.2	146	10	6 x 13	4	10.70
WY24-750UL				750	160.2	161.1	156	114	134	160.2	156	10	6 x 13	4	12.30
WY24-1KUL				1K	184	188	150	133.8	122	184	150	10	7 x 14	4	16.65
WY24-1.5KUL				1.5K	184	188	170	133.8	142	184	170	16	7 x 14	6	20.75
WY24-2KUL				2K	219	226	169	180	135	219	172	16	7 x 15	6	26.80
WY24-3KUL				3K	243	247	192	180	165	243	192	16	9 x 19	6	40.20
WY24-5KUL				5K	270	269	200	180	170	270	200	16	9 x 19	6	54.00

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



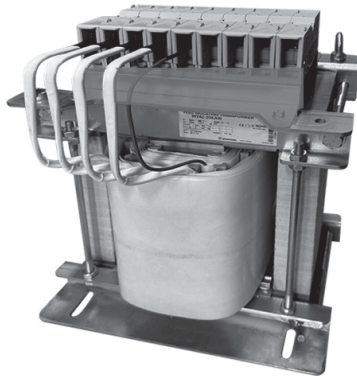
100VA : Max 6, Min 3.5
200VA~1kVA : Max 9, Min 4
1.5~5kVA : Max 15, Min 6
7.5kVA : Max 23, Min 6
10kVA : Max 25, Min 6

UL TYPE TRANSFORMER

WY24-UL Series WT Type



UL 인증

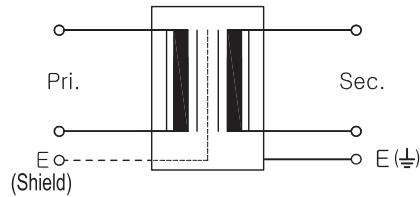


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다수 TAP 적용시 형상이 변경될수 있습니다. (터미널 블록 고정식 단차대 적용)

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The product, which is a single phase isolation transformer general electric source, has been **UL** **CE** certified for its proven reliability and safety.

• Circuit Diagram



● Standard & Approval

- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

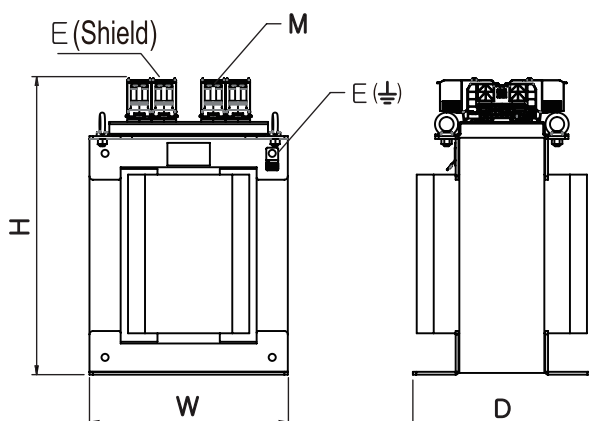
● Specifications

Insulation Class H

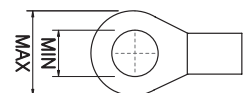
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	Ø	E(Shield)	E(⊥)	M	
WY24-7.5KUL	WT	①200 ②208 ③220 ④230 ⑤240	①380 ②400 ③415 ④440 ⑤460 ⑥480	7.5k	270	397	203	180	173	11 x 35	M6	M5	M8	70.00
WY24-10KUL				10k	310	411	215	219	167	13 x 40	M6	M5	M8	85.00
WY24-15KUL				15k	330	403	269	240	210	11 x 35	M6	M5	M8	110.00
WY24-20KUL				20k	330	438	279	240	220	11 x 35	M6	M5	M10	130.00
WY24-30KUL				30k	350	523	314	250	245	13 x 40	M6	M5	M10	195.00

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



7.5~15kVA : Max 28, Min 8
20~30kVA : Max 39, Min 10

UL TYPE TRANSFORMER

WYES[®]
산업용변압기

WY41-UL Series WT Type

UL[®] US CE RoHS

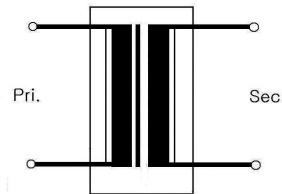
UL 인증



단상 복권형으로 일반 전원 공급용 제품이며 전 규격을 UL[®] US CE 인증 받아 신뢰성과 안전성을 동시에 확보한 제품입니다.

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• Circuit Diagram



● Standard & Approval

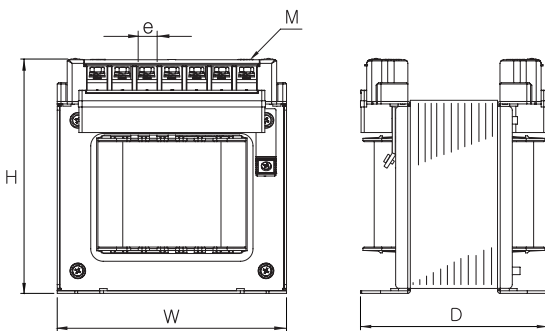
- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

● Specifications

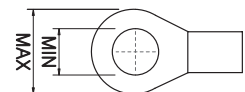
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)										Insulation Class H		WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	Ø	M			
WY41-100UL	WT	①380 ②400 ③415 ④440 ⑤460 ⑥480	①100 ②110 ③115 ④120	100	98.4	105.9	113	72	92	98.4	113	7	6 x 12	3.5			3.23
WY41-200UL				200	120	121.5	114	84	95	120	114	10	5.5 x 10	4			4.95
WY41-300UL				300	140	136.5	126.2	97.9	106	140	126.2	10	6 x 12	4			7.25
WY41-500UL				500	160.2	161.1	146	114	124	160.2	146	10	6 x 13	4			10.70
WY41-750UL				750	160.2	161.1	156	114	134	160.2	156	10	6 x 13	4			12.30
WY41-1KUL				1K	184	188	150	133.8	122	184	150	10	7 x 14	4			16.65
WY41-1.5KUL				1.5K	184	188	170	133.8	142	184	170	16	7 x 14	6			20.75
WY41-2KUL				2K	219	226	169	180	135	219	172	16	7 x 15	6			26.80
WY41-3KUL				3K	243	247	192	180	165	243	192	16	9 x 19	6			40.20
WY41-5KUL				5K	270	269	200	180	170	270	200	16	9 x 19	6			54.00

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



100VA : Max 6, Min 3.5
200VA~1kVA : Max 9, Min 4
1.5~5kVA : Max 15, Min 6
7.5kVA : Max 23, Min 6
10kVA : Max 25, Min 6

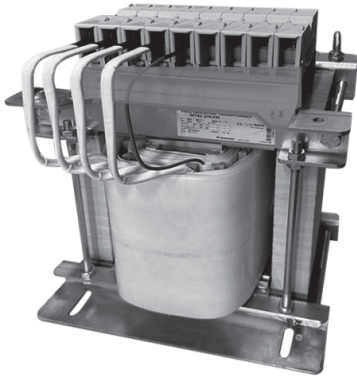
TRANS=인덕터
REACTOR=리액터
SSR=무정전압릴레이
TPR=전력조정기
SMP=스위칭파워
N/F=노이즈필터
H/F=하모닉필터
SPD=서지보호기
RELAY=보호계전기
ELD=누전경보기
ZCT=영상변류기
METER=판넬메타
CT=계기용변성기
SHUNT=선트팬

UL TYPE TRANSFORMER

WY41-UL Series WT Type



UL 인증

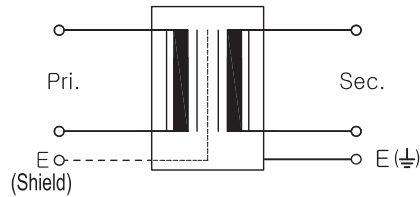


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다수 TAP 적용시 형상이 변경될수 있습니다. (터미널 블록 고정식 단차대 적용)

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The product, which is a single phase isolation transformer general electric source, has been **UL** **CE** certified for its proven reliability and safety.

• Circuit Diagram



● Standard & Approval

- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

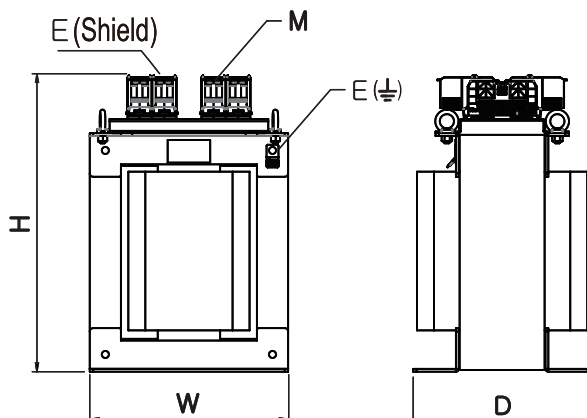
● Specifications

Insulation Class H

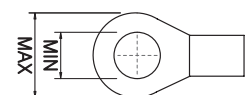
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	Ø	E(Shield)	E(⏏)	M	
WY41-7.5KUL	WT	①380 ②400 ③415 ④440 ⑤460 ⑥480	①100 ②110 ③115 ④120	7.5k	270	397	203	180	173	11 x 35	M6	M5	M8	70.00
WY41-10KUL				10k	310	411	215	219	167	13 x 40	M6	M5	M8	85.00
WY41-15KUL				15k	330	403	269	240	210	11 x 35	M6	M5	M8	110.00
WY41-20KUL				20k	330	438	279	240	220	11 x 35	M6	M5	M10	130.00
WY41-30KUL				30k	350	523	314	250	245	13 x 40	M6	M5	M10	195.00

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



7.5~15kVA : Max 28, Min 8
20~30kVA : Max 39, Min 10

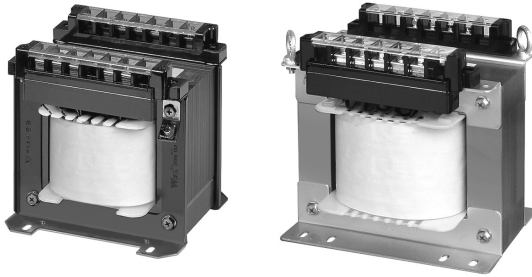
UL TYPE TRANSFORMER

WYES[®]
산업용변압기

WY42-UL Series WT Type

UL[®] US CE RoHS

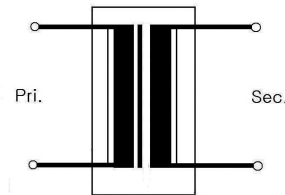
UL 인증



단상 복권형으로 일반 전원 공급용 제품이며 전 규격을 UL[®] CE 인증 받아 신뢰성과 안전성을 동시에 확보한 제품입니다.

The product, which is a single phase isolation transformer general electric source, has been UL[®] CE certified for its proven reliability and safety.

• Circuit Diagram



● Standard & Approval

- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

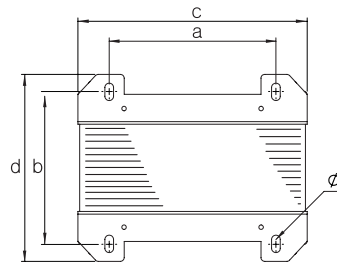
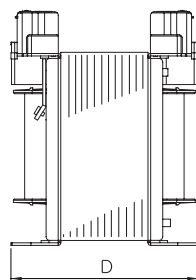
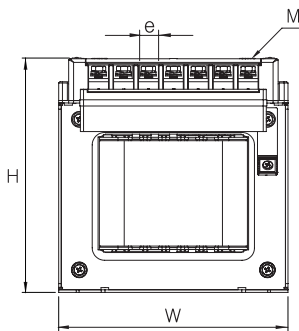
● Specifications

Insulation Class H

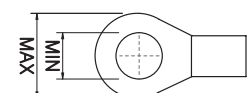
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)										WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	Ø	M	
WY42-100UL	WT	①380 ②400 ③415 ④440 ⑤460 ⑥480	①200 ②208 ③220 ④230 ⑤240	100	98.4	105.9	113	72	92	98.4	113	7	6 x 12	3.5	3.23
WY42-200UL				200	120	121.5	114	84	95	120	114	10	5.5 x 10	4	4.95
WY42-300UL				300	140	136.5	126.2	97.9	106	140	126.2	10	6 x 12	4	7.25
WY42-500UL				500	160.2	161.1	146	114	124	160.2	146	10	6 x 13	4	10.70
WY42-750UL				750	160.2	161.1	156	114	134	160.2	156	10	6 x 13	4	12.30
WY42-1KUL				1K	184	188	150	133.8	122	184	150	10	7 x 14	4	16.65
WY42-1.5KUL				1.5K	184	188	170	133.8	142	184	170	16	7 x 14	6	20.75
WY42-2KUL				2K	219	226	169	180	135	219	172	16	7 x 15	6	26.80
WY42-3KUL				3K	243	247	192	180	165	243	192	16	9 x 19	6	40.20
WY42-5KUL				5K	270	269	200	180	170	270	200	16	9 x 19	6	54.00

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



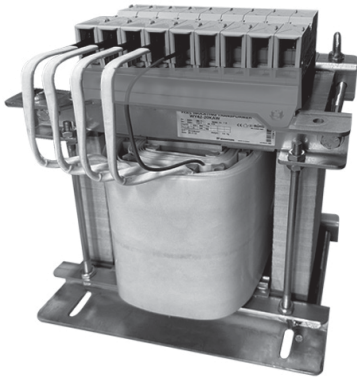
100VA : Max 6, Min 3.5
200VA~1kVA : Max 9, Min 4
1.5~5kVA : Max 15, Min 6
7.5kVA : Max 23, Min 6
10kVA : Max 25, Min 6

TRANS=인버터
REACTOR=리액터
SSR=무정전압릴레이
TPR=전력조정기
SMP=스위칭파워
N/F=노이즈필터
H/F=하모닉필터
SPD=서지보호기
RELAY=보호계전기
ELDR=LED=경보기
ZCT=영상변류기
METER=판넬메타
CT=계기용변성기
SHUNT=선트팬

UL TYPE TRANSFORMER

WY42-UL Series WT Type

UL 인증

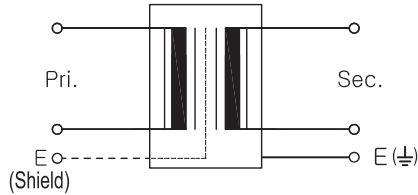


*참조 이미지는 1차, 2차 단일 TAP 기준 제작시 이미지입니다.
다수 TAP 적용시 형상이 변경될수 있습니다. (터미널 블록 고정식 단차대 적용)

단상 복권형으로 일반 전원 공급용 제품이며 전 규격을 **UL** **CE** 인증 받아 신뢰성과 안전성을 동시에 확보한 제품입니다.

The product, which is a single phase isolation transformer general electric source, has been **UL** **CE** certified for its proven reliability and safety.

• Circuit Diagram



● Standard & Approval

- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

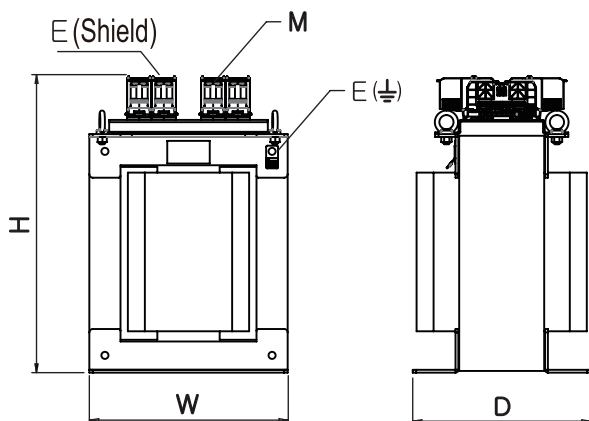
● Specifications

Insulation Class H

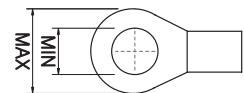
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	Ø	E(Shield)	E(±)	M	
WY42-7.5KUL	WT	①380 ②400 ③415 ④440 ⑤460 ⑥480	①200 ②208 ③220 ④230 ⑤240	7.5k	270	397	203	180	173	11 x 35	M6	M5	M8	70.00
WY42-10KUL				10k	310	411	215	219	167	13 x 40	M6	M5	M8	85.00
WY42-15KUL				15k	330	403	269	240	210	11 x 35	M6	M5	M8	110.00
WY42-20KUL				20k	330	438	279	240	220	11 x 35	M6	M5	M10	130.00
WY42-30KUL				30k	350	523	314	250	245	13 x 40	M6	M5	M10	195.00

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



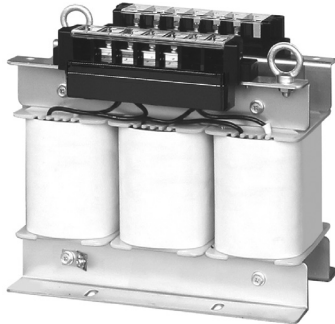
7.5~15kVA : Max 28, Min 8
20~30kVA : Max 39, Min 10

UL TYPE TRANSFORMER

WY3P22-UL Series(500UL~15KUL) WT Type



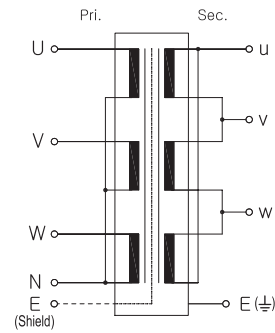
UL 인증



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• Circuit Diagram



● Standard & Approval

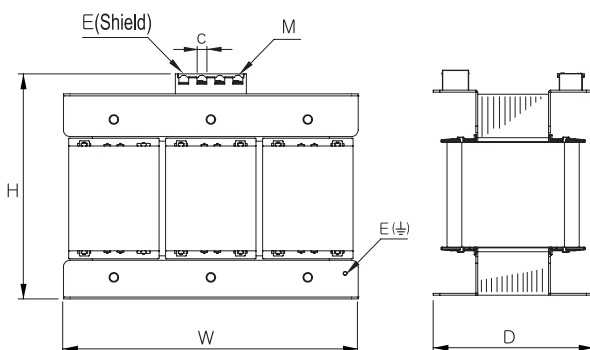
- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

● Specifications

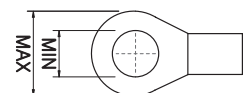
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)										WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	Ø	E(Shield)	E(±)	M	
WY3P22-500UL	WT	Δ N ①200 ②208 ③220 ④230 ⑤240	Δ ①200 ②208 ③220	500	190	172	134	99	130	12	6.6 x 16	M4	M4	M4	13.00
WY3P22-1KUL				1k	235	210	144	113.5	120	12	7 x 14.5	M4	M4	M4	18.60
WY3P22-1.5KUL				1.5k	275	248	165	130	120	16	9 x 19	M6	M4	M6	20.00
WY3P22-2KUL				2k	275	248	165	130	120	16	9 x 19	M6	M4	M6	30.50
WY3P22-3KUL				3k	332	292	190	160	180	16	10.5 x 20.5	M6	M4	M6	45.40
WY3P22-5KUL				5k	332	292	190	185	180	16	10.5 x 20.5	M6	M4	M6	58.30
WY3P22-6KUL				6k	332	292	190	185	180	16	10.5 x 20.5	M6	M4	M6	73.00
WY3P22-7.5KUL				7.5k	375	319.5	236	180	208	16	12 x 20	M6	M4	M6	81.70
WY3P22-10KUL				10k	390	339	236	208	180	20	12 x 20	M6	M4	M6	92.00
WY3P22-15KUL				15k	425	368	260	196	205	20	14 x 40	M6	M4	M6	101.50

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



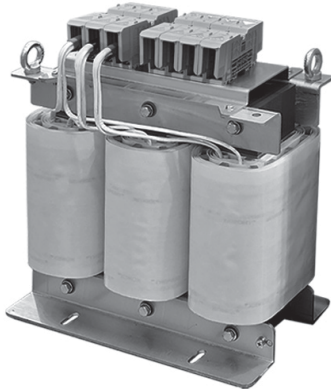
500VA~1kVA : Max 12.6, Min 4
1.5kVA~7.5kVA : Max 17.2, Min 6
10kVA~15kVA : Max 18.2, Min 6

UL TYPE TRANSFORMER

WY3P22-UL Series(20KUL~100KUL) WT Type



UL 인증

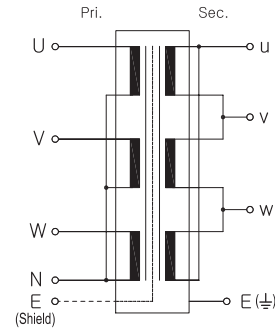


*참조 이미지는 1차, 2차 단일 TAP 기준 제작시 이미지입니다.
다수 TAP 적용시 형상이 변경될수 있습니다.(터미널 블록 고정식 단자대 적용)

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•Circuit Diagram



● Standard & Approval

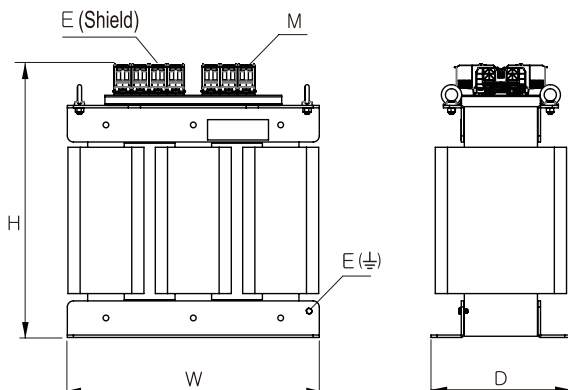
- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

● Specifications

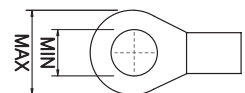
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	Ø	E(Shield)	E(≡)	M	
WY3P22-20KUL	WT	Δ N ①200 ②208 ③220 ④230 ⑤240	Δ ①200 ②208 ③220	20k	450	400	244	189	205/140	14 x 35	M6	M6	M6	110.50
WY3P22-30KUL				30k	460	525	279	213	240	13 x 40	M6	M8	M6	175.00
WY3P22-40KUL				40k	480	524	299	229	240	13 x 40	M6	M8	M8	210.00
WY3P22-50KUL				50k	520	535	309	239	340	13 x 40	M6	M8	M8	265.00
WY3P22-60KUL				60k	550	613	334	265	420	13 x 40	M6	M8	M10	340.00
WY3P22-75KUL				75k	550	613	334	265	420	13 x 40	M6	M8	M10	370.00
WY3P22-100KUL				100k	620	673	344	275	500	13 x 40	M6	M8	M10	495.00

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



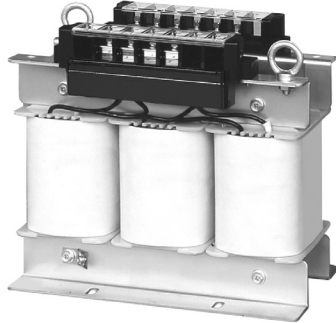
20kVA~30kVA : Max 17, Min 6
40kVA ~ 50kVA : Max 28, Min 8
75kVA, 100kVA : Max 39, Min 10

UL TYPE TRANSFORMER

WY3P22D-UL Series(500UL~15KUL) WT Type



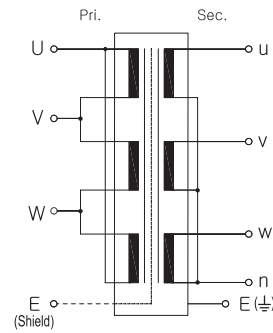
UL 인증



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The product, which is a three phase isolation transformer general electric source, has been certified for its proven reliability and safety.

•Circuit Diagram



● Standard & Approval

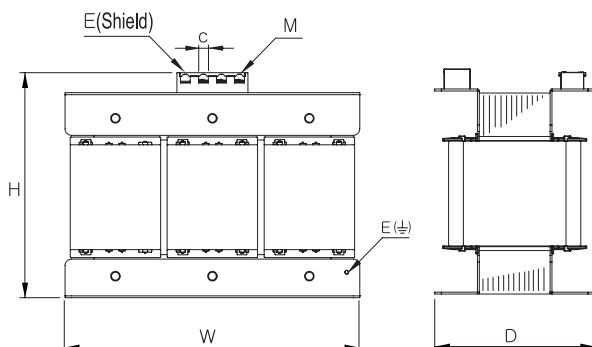
- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

● Specifications

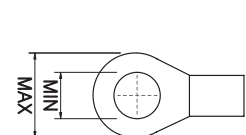
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)										WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	Ø	E(Shield)	E(⊥)	M	
WY3P22D-500UL	WT	△ ①200 ②208 ③220 ④230	△N ①200 ②208 ③220 ④230 ⑤240	500	190	172	134	99	130	12	6.6 x 16	M4	M4	M4	13.00
WY3P22D-1KUL				1k	235	210	144	113.5	120	12	7 x 14.5	M4	M4	M4	18.60
WY3P22D-1.5KUL				1.5k	275	248	165	130	120	16	9 x 19	M6	M4	M6	20.00
WY3P22D-2KUL				2k	275	248	165	130	120	16	9 x 19	M6	M4	M6	30.50
WY3P22D-3KUL				3k	332	292	190	160	180	16	10.5 x 20.5	M6	M4	M6	45.40
WY3P22D-5KUL				5k	332	292	190	185	180	16	10.5 x 20.5	M6	M4	M6	58.30
WY3P22D-6KUL				6k	332	292	190	185	180	16	10.5 x 20.5	M6	M4	M6	73.00
WY3P22D-7.5KUL				7.5k	375	319.5	236	180	208	16	12 x 20	M6	M4	M6	81.70
WY3P22D-10KUL				10k	390	339	236	208	180	20	12 x 20	M6	M4	M6	92.00
WY3P22D-15KUL				15k	425	368	260	196	205	20	14 x 40	M6	M4	M6	101.50

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



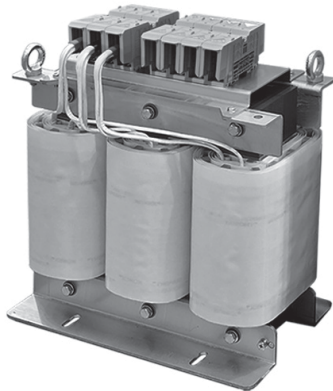
500VA~1kVA : Max 12.6, Min 4
1.5kVA~7.5kVA : Max 17.2, Min 6
10kVA~15kVA : Max 18.2, Min 6

UL TYPE TRANSFORMER

WY3P22D-UL Series(20KUL~100KUL) WT Type



UL 인증

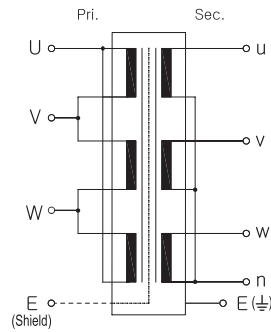


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다수 TAP 적용시 형상이 변경될수 있습니다. (터미널 블록 고정식 단자대 적용)

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The product, which is a three phase isolation transformer general electric source, has been **UL** **CE** certified for its proven reliability and safety.

• Circuit Diagram



● Standard & Approval

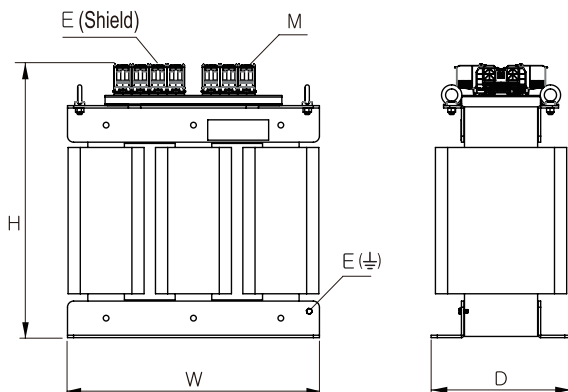
- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

● Specifications

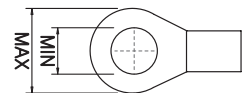
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	Ø	E(Shield)	E(⊥)	M	
WY3P22D-20KUL	WT	△ ①200 ②208 ③220	⋈^N ①200 ②208 ③220 ④230 ⑤240	20k	450	400	244	189	205/140	14 x 35	M6	M6	M6	110.50
WY3P22D-30KUL				30k	460	525	279	213	240	13 x 40	M6	M8	M6	175.00
WY3P22D-40KUL				40k	480	524	299	229	240	13 x 40	M6	M8	M8	210.00
WY3P22D-50KUL				50k	520	535	309	239	340	13 x 40	M6	M8	M8	265.00
WY3P22D-60KUL				60k	550	613	334	265	420	13 x 40	M6	M8	M10	340.00
WY3P22D-75KUL				75k	550	613	334	265	420	13 x 40	M6	M8	M10	370.00
WY3P22D-100KUL				100k	620	673	344	275	500	13 x 40	M6	M8	M10	495.00

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



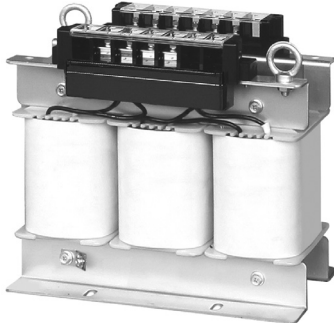
20kVA~30kVA : Max 17, Min 6
40kVA ~ 50kVA : Max 28, Min 8
75kVA, 100kVA : Max 39, Min 10

UL TYPE TRANSFORMER

WY3P24D-UL Series(500UL~15KUL) WT Type



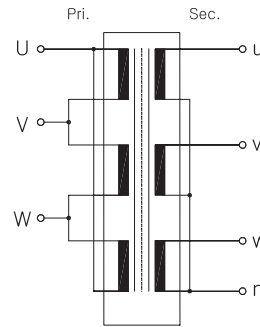
UL 인증



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The product, which is a three phase isolation transformer general electric source, has been certified for its proven reliability and safety.

•Circuit Diagram



● Standard & Approval

- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

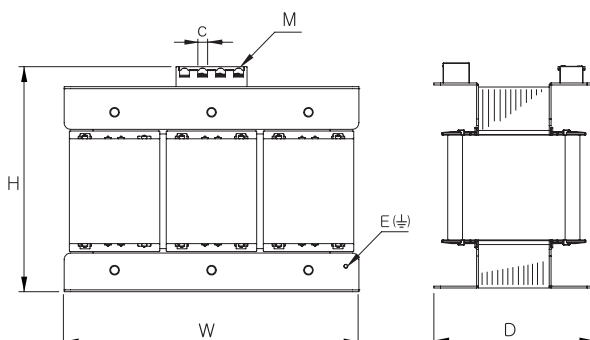
● Specifications

Insulation Class H

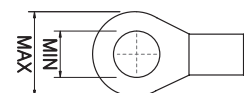
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	Ø	E(±)	M	
WY3P24D-500UL	WT	△ ①200 ②208 ③220	△N ①380 ②400 ③415 ④440 ⑤460 ⑥480	500	190	172	135	99	130	12	6.6 x 16.3	M4	M4	13.00
WY3P24D-1KUL				1k	235	210	144	113.5	120	12	7 x 14.5	M4	M4	18.60
WY3P24D-1.5KUL				1.5k	275	248	165	130	120	16	9 x 19	M4	M6	20.00
WY3P24D-2KUL				2k	275	248	165	130	120	16	9 x 19	M4	M6	30.50
WY3P24D-3KUL				3k	332	292	190	160	180	16	10.5 x 20.5	M4	M6	45.40
WY3P24D-5KUL				5k	332	292	190	185	180	16	10.5 x 20.5	M4	M6	58.30
WY3P24D-7.5KUL				7.5k	375	319.5	236	180	208	16	12 x 20	M4	M6	81.70
WY3P24D-10KUL				10k	390	339	236	208	180	20	12 x 20	M4	M6	92.00
WY3P24D-15KUL				15k	425	368	260	196	205	20	14 x 40	M4	M6	101.50

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



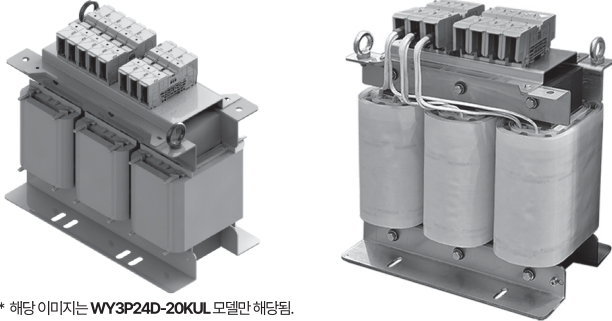
500VA~1kVA : Max 12.6, Min 4
1.5kVA~7.5kVA : Max 17.2, Min 6
10kVA~15kVA : Max 18.2, Min 6

UL TYPE TRANSFORMER

WY3P24D-UL Series(20KUL~100KUL) WT Type



UL 인증



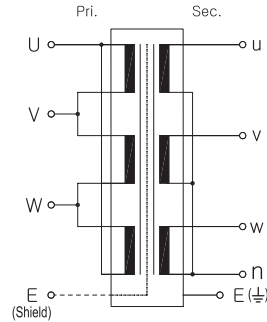
* 해당 이미지는 WY3P24D-20KUL 모델만 해당됨.

* 참조 이미지는 1차, 2차 단일 TAP 기준 제작시 이미지입니다.
다수 TAP 적용시 형상이 변경될수 있습니다. (터미널 블록 고정식 단자대 적용)

삼상 복권형으로 일반 전원 공급용 제품이며 전 규격을 **UL US** **CE** 인증 받아 신뢰성과 안전성을 동시에 확보한 제품입니다.

The product, which is a three phase isolation transformer general electric source, has been **UL US** **CE** certified for its proven reliability and safety.

• Circuit Diagram



• Not applied E(Shield) : 20KUL

● Standard & Approval

- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

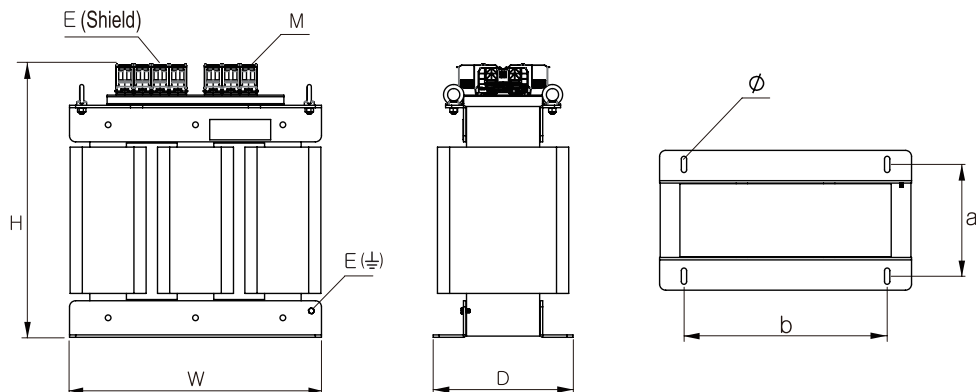
● Specifications

Insulation Class H

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)								WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	Ø	E(≡)	M	
WY3P24D-20KUL	WT	△ ①200 ②208 ③220	△N ①380 ②400 ③415 ④440 ⑤460 ⑥480	20k	450	400	244	189	205/140	14 x 35	M6	M6	110.50
WY3P24D-30KUL				30k	460	525	279	213	240	13 x 40	M8	M6, M8	175.00
WY3P24D-40KUL				40k	480	524	299	299	240	13 x 40	M8	M8	210.00
WY3P24D-50KUL				50k	520	535	309	239	340	13 x 40	M8	M8	265.00
WY3P24D-60KUL				60k	550	613	334	265	420	13 x 40	M8	M8, M10	340.00
WY3P24D-75KUL				75k	550	613	334	265	420	13 x 40	M8	M8, M10	370.00
WY3P24D-100KUL				100k	620	673	344	275	500	13 x 40	M8	M10	495.00

※ 1차, 2차 전압은 주문시 선택

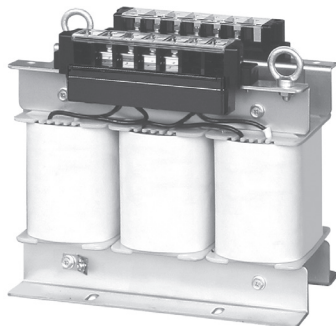
● Dimension



UL TYPE TRANSFORMER

WY3P24D-UL Series(112.5KUL~325KUL) WT Type

UL 인증

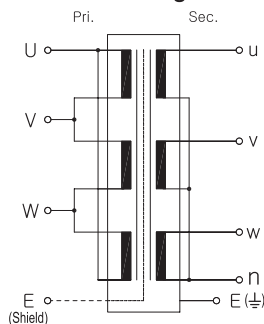


*위 제품 이미지는
WY3P24D-112.5KUL ~ 200KUL 모델까지 해당됨.

삼상 복권형으로 일반 전원 공급용 제품이며 전 규격을 UL[®] CE 인증 받아 신뢰성과 안전성을 동시에 확보한 제품입니다.

The product, which is a three phase isolation transformer general electric source, has been UL[®] CE certified for its proven reliability and safety.

• Circuit Diagram



● Standard & Approval

- IEC 61558-1
- IEC 61558-2-4:2009
- UL 5085-2
- UL 1446

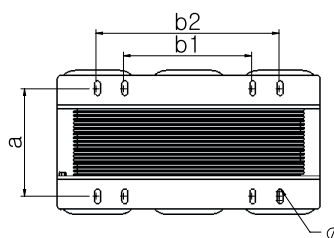
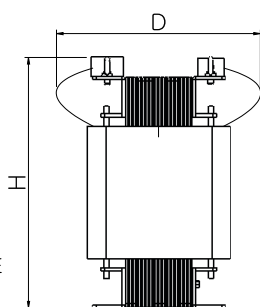
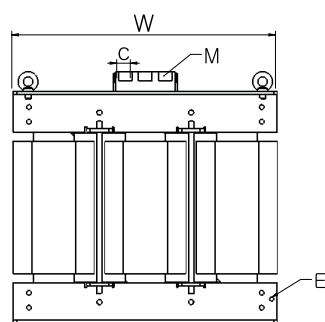
Insulation Class R

● Specifications

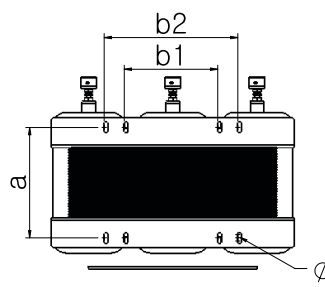
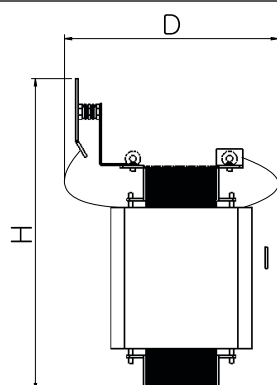
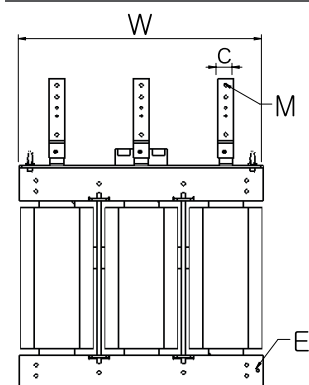
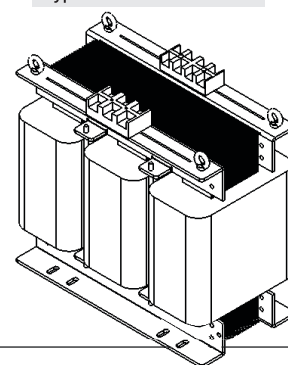
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)										WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	b1	b2	a	Ø	C(단자폭)	M		
WY3P24D－112.5KUL	WT	△ ①200 ②208 ③220	ㄱ ①380 ②400 ③415 ④440 ⑤460 ⑥480	112.5k	720	690	563	350	500	293	16 x 40	Pri. 37 Sec. 30.5	Pri. M12 Sec. M10	540	
WY3P24D－125KUL				125k	720	690	563	350	500	293	16 x 40	Pri. 37 Sec. 30.5	Pri. M12 Sec. M10	560	
WY3P24D－150KUL				150k	720	700	643	350	500	313	16 x 40	Pri. 46 Sec. 34	Pri. M12 Sec. M10	670	
WY3P24D－175KUL				175k	810	740	723	350	500	353	16 x 40	Pri. 46 Sec. 34	Pri. M12 Sec. M12	850	
WY3P24D－200KUL				200k	810	740	723	350	500	353	16 x 40	Pri. 46 Sec. 37	Pri. M12 Sec. M12	850	
WY3P24D－225KUL				225k	810	1025	773	350	500	353	16 x 40	Pri. Bus 50 Sec. 37	Pri. M12 Sec. M12	900	
WY3P24D－250KUL				250k	830	1175	773	350	500	353	16 x 40	Pri. Bus 50 Sec. 37	Pri. M12 Sec. M12	1,100	
WY3P24D－275KUL				275k	830	1175	793	350	500	373	16 x 40	Pri. Bus 60 Sec. 46	Pri. M12 Sec. M12	1,250	
WY3P24D－300KUL				300k	910	1195	883	350	500	413	16 x 40	Pri. Bus 60 Sec. 46	Pri. M12 Sec. M12	1,400	
WY3P24D－325KUL				325k	910	1195	883	350	500	413	16 x 40	Pri. Bus 60 Sec. 46	Pri. M12 Sec. M12	1,600	

* 단자치수("c", "M")와 H는 참조 사항으로 변경 될 수 있습니다.

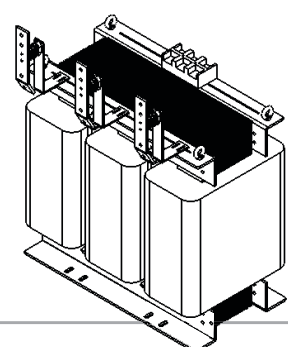
● Dimension



Type1. 112.5kVA ~ 200kVA



Type2. 225kVA ~ 325kVA



UL TYPE TRANSFORMER

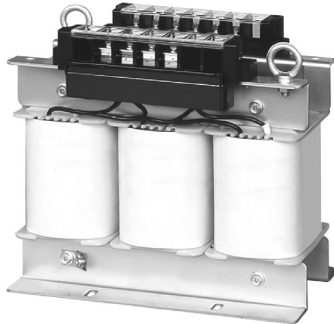
WY3P42-UL Series(500UL~15KUL) WT Type



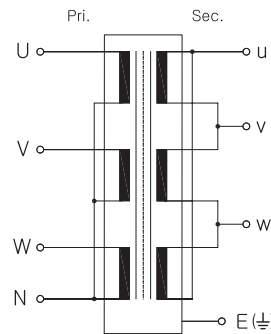
UL 인증

삼상 복권형으로 일반 전원 공급용 제품이며 전 규격을 **UL** **CE** 인증 받아 신뢰성과 안전성을 동시에 확보한 제품입니다.

The product, which is a three phase isolation transformer general electric source, has been **UL** **CE** certified for its proven reliability and safety.



•Circuit Diagram



● Standard & Approval

- UL 5085 – 1/2
- UL 1059(Terminal Block)
- IEC 61558

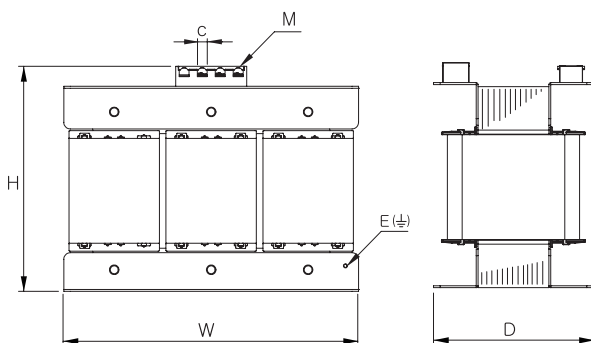
● Specifications

Insulation Class H

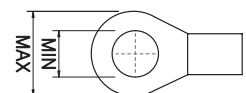
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)										WEIGHT (kg)
		PRI.(V)	SEC.(V)												
WY3P42－500UL	WT			500	190	172	135	99	130	12	6.6 x 16.3	M4	M4	13.00	
WY3P42－1KUL				1k	235	210	144	113.5	120	12	7 x 14.5	M4	M4	18.60	
WY3P42－1.5KUL				1.5k	275	248	165	130	120	16	9 x 19	M4	M6	20.00	
WY3P42－2KUL				2k	275	248	165	130	120	16	9 x 19	M4	M6	30.50	
WY3P42－3KUL				3k	332	292	190	160	180	16	10.5 x 20.5	M4	M6	45.40	
WY3P42－5KUL				5k	332	292	190	185	180	16	10.5 x 20.5	M4	M6	58.30	
WY3P42－7.5KUL				7.5k	375	319.5	236	180	208	16	12 x 20	M4	M6	81.70	
WY3P42－10KUL				10k	390	339	236	208	180	20	12 x 20	M4	M6	92.00	
WY3P42－15KUL				15k	425	368	260	196	205	20	14 x 40	M4	M6	101.50	

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



500VA~1kVA : Max 12.6, Min 4
1.5kVA~7.5kVA : Max 17.2, Min 6
10kVA~15kVA : Max 18.2, Min 6

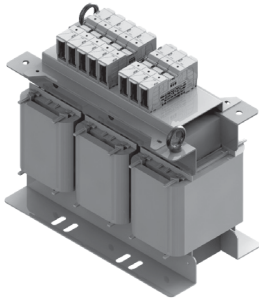
UL TYPE TRANSFORMER

WYES[®]
산업용변압기

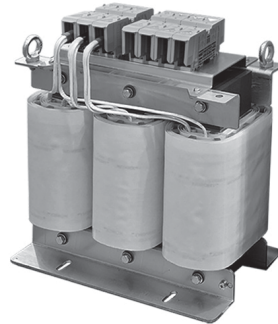
WY3P42-UL Series(20KUL~100KUL) WT Type

cUL[®]us CE RoHS

UL 인증



* 해당 이미지는 WY3P-20KUL 모델만 해당됨.

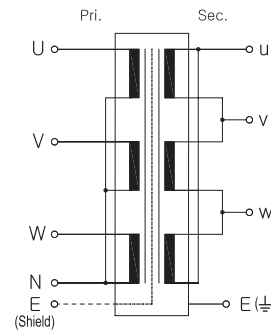


* 참조 이미지는 1차, 2차 단일 TAP 기준 제작시 이미지입니다.
다수 TAP 적용시 형상이 변경될수 있습니다. (터미널 블록 고정식 단자대 적용)

삼상 복권형으로 일반 전원 공급용 제품이며 전 규격을 cUL[®]us CE 인증 받아 신뢰성과 안전성을 동시에 확보한 제품입니다.

The product, which is a three phase isolation transformer general electric source, has been cUL[®]us CE certified for its proven reliability and safety.

• Circuit Diagram



• Not applied E(Shield) : 20KUL

● Standard & Approval

- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

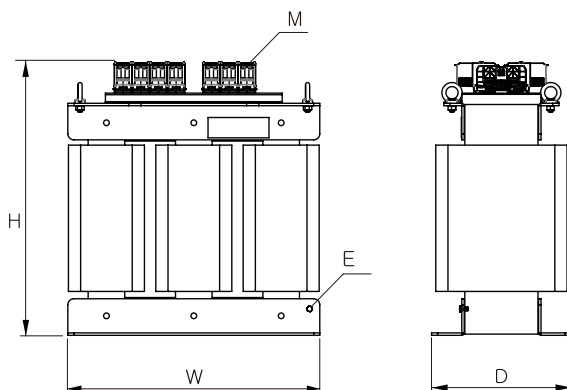
● Specifications

Insulation Class H

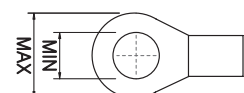
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	Ø	E(Shield)	E(≡)	M	
WY3P42-20KUL	WT	Δ N ①380 ②400 ③415 ④440 ⑤460 ⑥480	Δ ①200 ②208 ③220	20k	450	400	244	189	205/140	14 x 35	—	M6	M6	110.50
WY3P42-30KUL				30k	460	525	279	213	240	13 x 40	M6	M8	M8	175.00
WY3P42-40KUL				40k	480	524	299	229	240	13 x 40	M6	M8	M8	210.00
WY3P42-50KUL				50k	520	535	309	239	340	13 x 40	M6	M8	M8	265.00
WY3P42-75KUL				75k	550	613	334	265	420	13 x 40	M6	M8	M10	370.00
WY3P42-100KUL				100k	620	673	344	275	500	13 x 40	M6	M8	M10	495.00

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



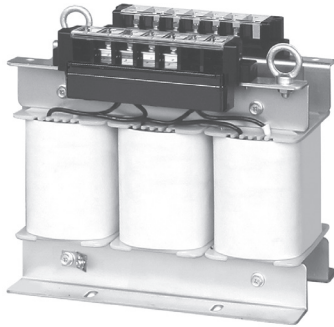
30kVA ~ 50kVA : Max 28, Min 8
75kVA, 100kVA : Max 39, Min 10

UL TYPE TRANSFORMER

WY3P42-UL Series(112.5KUL~325KUL) WT Type



UL 인증



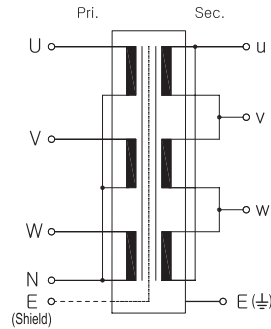
*위 제품 이미지는

WY3P42-112.5KUL ~ 200KUL 모델까지 해당됨.

삼상 복권형으로 일반 전원 공급용 제품이며 전 규격을 인증 받아 신뢰성과 안전성을 동시에 확보한 제품입니다.

The product, which is a three phase isolation transformer general electric source, has been certified for its proven reliability and safety.

•Circuit Diagram



● Standard & Approval

- IEC 61558-1
- IEC 61558-2-4:2009
- UL 5085-2
- UL 1446

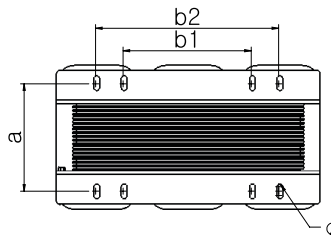
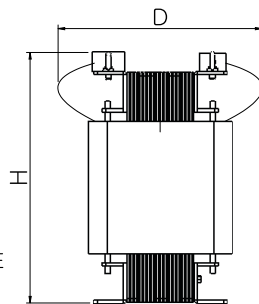
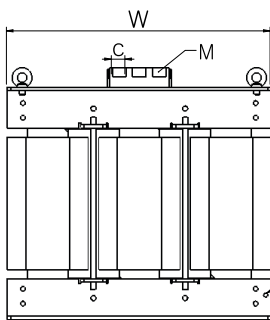
● Specifications

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	b1	b2	a	Ø	C(단자폭)	M	
WY3P42－112.5KUL	WT	①380 ②400 ③415 ④440 ⑤460 ⑥480	①200 ②208 ③220	112.5k	720	690	563	350	500	293	16 x 40	Pri. 30.5 Sec. 37	Pri. M10 Sec. M12	540
WY3P42－125KUL				125k	720	690	563	350	500	293	16 x 40	Pri. 30.5 Sec. 37	Pri. M10 Sec. M12	560
WY3P42－150KUL				150k	720	700	643	350	500	313	16 x 40	Pri. 34 Sec. 46	Pri. M10 Sec. M12	670
WY3P42－175KUL				175k	810	740	723	350	500	353	16 x 40	Pri. 34 Sec. 46	Pri. M12 Sec. M10	850
WY3P42－200KUL				200k	810	740	723	350	500	353	16 x 40	Pri. 46 Sec. 37	Pri. M12 Sec. M12	850
WY3P42－225KUL				225k	810	1025	773	350	500	353	16 x 40	Pri. 37 Sec. BuS 50	Pri. M12 Sec. M12	900
WY3P42－250KUL				250k	830	1175	773	350	500	353	16 x 40	Pri. 37 Sec. BuS 50	Pri. M12 Sec. M12	1,100
WY3P42－275KUL				275k	830	1175	793	350	500	373	16 x 40	Pri. 46 Sec. BuS 60	Pri. M12 Sec. M12	1,250
WY3P42－300KUL				300k	910	1195	883	350	500	413	16 x 40	Pri. 46 Sec. BuS 60	Pri. M12 Sec. M12	1,400
WY3P42－325KUL				325k	910	1195	883	350	500	413	16 x 40	Pri. 46 Sec. BuS 60	Pri. M12 Sec. M12	1,600

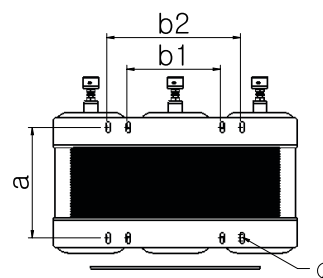
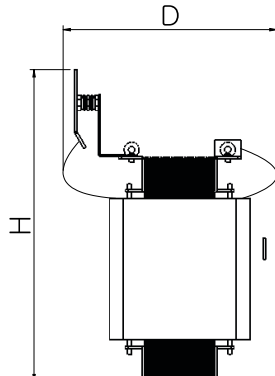
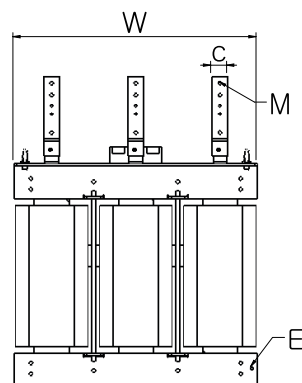
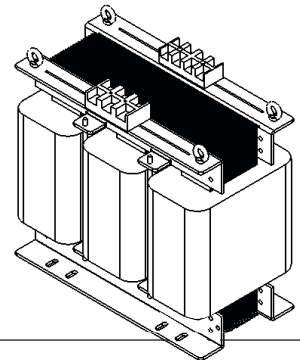
Insulation Class R

※ 단자치수("C", "M")와 H는 참조 사항으로 변경 될 수 있습니다.

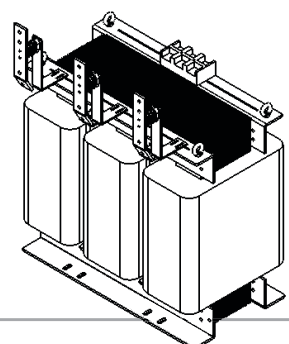
● Dimension



Type1. 112.5kVA ~ 200kVA



Type2. 225kVA ~ 325kVA

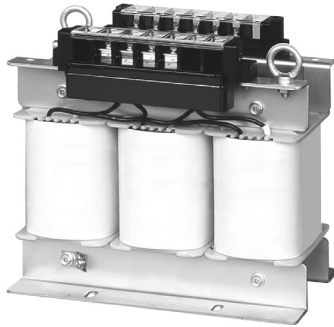


UL TYPE TRANSFORMER

WY3P42D-UL Series(500UL~15KUL) WT Type



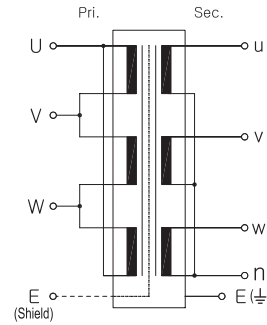
UL 인증



삼상 복권형으로 일반 전원 공급용 제품이며 전 규격을 인증 받아 신뢰성과 안전성을 동시에 확보한 제품입니다.

The product, which is a three phase isolation transformer general electric source, has been certified for its proven reliability and safety.

•Circuit Diagram



● Standard & Approval

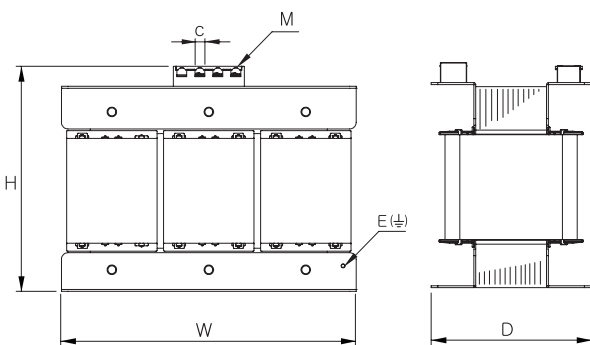
- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

● Specifications

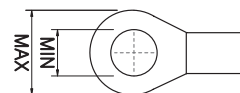
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	Ø	E($\frac{1}{2}$)	M	
WY3P42D-500UL	WT	△ ①380 ②400 ③415 ④440 ⑤460 ⑥480	△N ①200 ②208 ③210 ④220 ⑤230 ⑥240	0.5k	190	172	134	99	130	12	6.6 x 16	M4	M4	13.00
WY3P42D-1KUL				1k	235	210	144	113.5	120	12	7 x 14.5	M4	M4	18.60
WY3P42D-1.5KUL				1.5k	275	248	165	130	120	16	9 x 19	M4	M6	20.00
WY3P42D-2KUL				2k	275	248	165	130	120	16	9 x 19	M4	M6	30.50
WY3P42D-3KUL				3k	332	292	190	160	180	16	10.5 x 20.5	M4	M6	45.40
WY3P42D-5KUL				5k	332	292	190	185	180	16	10.5 x 20.5	M4	M6	58.30
WY3P42D-6KUL				6k	375	319.5	236	180	208	16	12 x 20	M4	M6	73.00
WY3P42D-7.5KUL				7.5k	375	319.5	236	180	208	16	12 x 20	M4	M6	81.70
WY3P42D-10KUL				10k	390	339	236	208	180	20	12 x 20	M4	M6	92.00
WY3P42D-15KUL				15k	425	368	260	196	205	20	14 x 40	M4	M6	101.50

※ 1차, 2차 전압은 주문시 선택

● Dimension



● Terminal



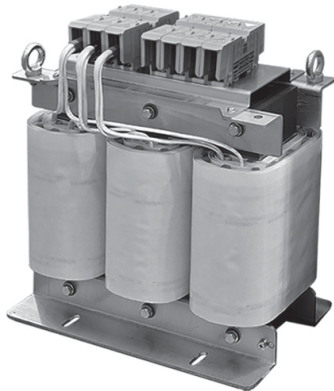
500VA~1kVA : Max 12.6, Min 4
1.5kVA~7.5kVA : Max 17.2, Min 6
10kVA~15kVA : Max 18.2, Min 6

UL TYPE TRANSFORMER

WY3P42D-UL Series(20KUL~100KUL) WT Type



UL 인증

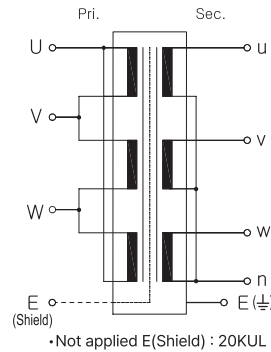


*참조 이미지는 1차, 2차 단일 TAP 기준 제작시 이미지입니다.
다수 TAP 적용시 형상이 변경될수 있습니다.(터미널 블록 고정식 단자대 적용)

삼상 복권형으로 일반 전원 공급용 제품이며 전 규격을 인증 받아 신뢰성과 안전성을 동시에 확보한 제품입니다.

The product, which is a three phase isolation transformer general electric source, has been certified for its proven reliability and safety.

• Circuit Diagram



● Standard & Approval

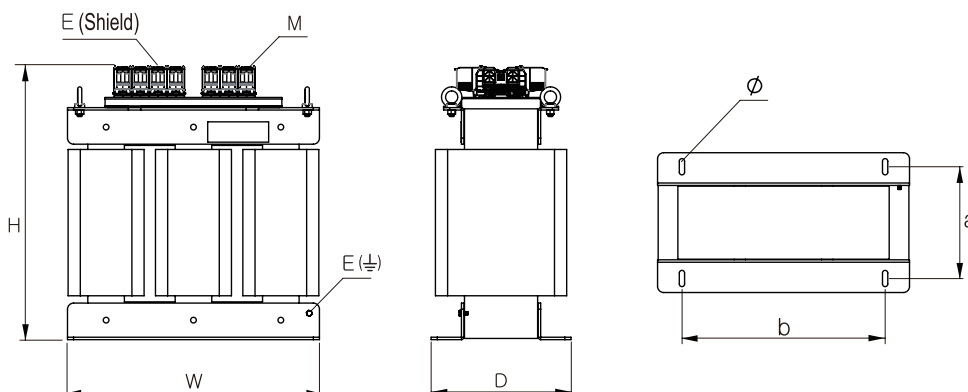
- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

● Specifications

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)								WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	Ø	E(≡)	M	
WY3P42D-20KUL	WT	△ ①380 ②400 ③415 ④440 ⑤460 ⑥480	△N ①200 ②208 ③210 ④220 ⑤230 ⑥240	20k	450	400	244	189	205/140	14 x 35	M6	M6	110.50
WY3P42D-30KUL				30k	460	525	279	213	240	13 x 40	M8	M6,M8	175.00
WY3P42D-40KUL				40k	480	524	299	229	240	13 x 40	M8	M8	210.00
WY3P42D-50KUL				50k	520	535	309	239	340	13 x 40	M8	M8	265.00
WY3P42D-60KUL				60k	550	613	334	265	420	13 x 40	M8	M8,M10	340.00
WY3P42D-75KUL				75k	550	613	334	265	420	13 x 40	M8	M8,M10	370.00
WY3P42D-100KUL				100k	620	673	344	275	500	13 x 40	M8	M10	495.00

※ 1차, 2차 전압은 주문시 선택

● Dimension

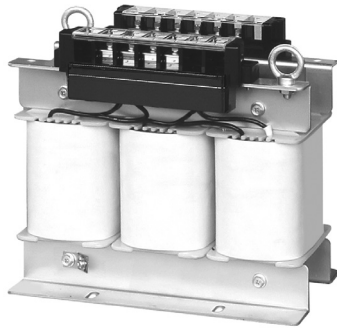


UL TYPE TRANSFORMER

WY3P44D-UL Series(500UL~15KUL) WT Type



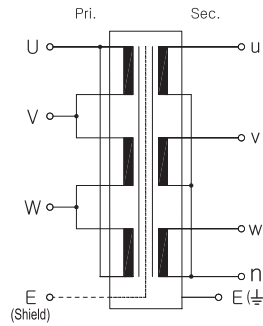
UL 인증



삼상 복권형으로 일반 전원 공급용 제품이며 전 규격을 인증 받아 신뢰성과 안전성을 동시에 확보한 제품입니다.

The product, which is a three phase isolation transformer general electric source, has been certified for its proven reliability and safety.

•Circuit Diagram



● Standard & Approval

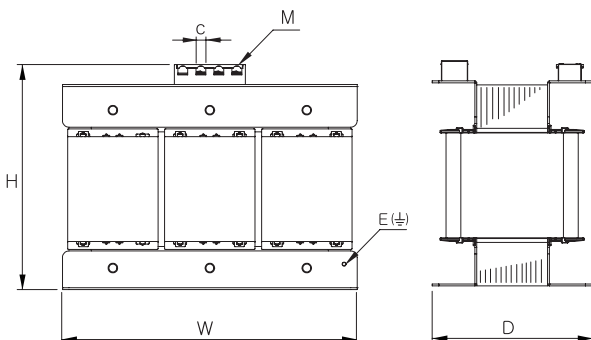
- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

● Specifications

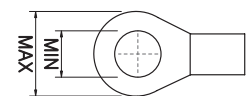
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	Ø	E(≒)	M	
WY3P44D-500UL	WT	△ ①380 ②400 ③415 ④440 ⑤460 ⑥480	△N ①380 ②400 ③415 ④440 ⑤460 ⑥480	0.5k	190	172	134	99	130	12	6.6 x 16	M4	M4	13.00
WY3P44D-1KUL				1k	235	210	144	113.5	120	12	7 x 14.5	M4	M4	18.60
WY3P44D-1.5KUL				1.5k	275	248	165	130	120	16	9 x 19	M4	M6	20.00
WY3P44D-2KUL				2k	275	248	165	130	120	16	9 x 19	M4	M6	30.50
WY3P44D-3KUL				3k	332	292	190	160	180	16	10.5 x 20.5	M4	M6	45.40
WY3P44D-5KUL				5k	332	292	190	185	180	16	10.5 x 20.5	M4	M6	58.30
WY3P44D-6KUL				6k	375	319.5	236	180	208	16	12 x 20	M4	M6	73.00
WY3P44D-7.5KUL				7.5k	375	319.5	236	180	208	16	12 x 20	M4	M6	81.70
WY3P44D-10KUL				10k	390	339	236	208	180	20	12 x 20	M4	M6	92.00
WY3P44D-15KUL				15k	425	368	260	196	205	20	14 x 40	M4	M6	101.50

※ 1차, 2차 전압은 주문시 선택

● Dimension

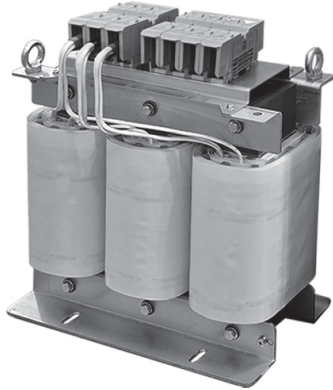


● Terminal



500VA~1kVA : Max 12.6, Min 4
1.5kVA~7.5kVA : Max 17.2, Min 6
10kVA~15kVA : Max 18.2, Min 6

UL 인증

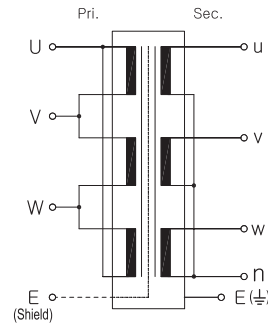


* 참조 이미지는 1차, 2차 단일 TAP 기준 제작시 이미지입니다.
다수 TAP 적용시 형상이 변경될수 있습니다. (터미널 블록 고정식 단차대 적용)

삼상 복권형으로 일반 전원 공급용 제품이며 전 규격을 **UL** **CE** 인증 받아 신뢰성과 안전성을 동시에 확보한 제품입니다.

The product, which is a three phase isolation transformer general electric source, has been **UL** **CE** certified for its proven reliability and safety.

• Circuit Diagram



• Not applied E(Shield) : 20KUL

● Standard & Approval

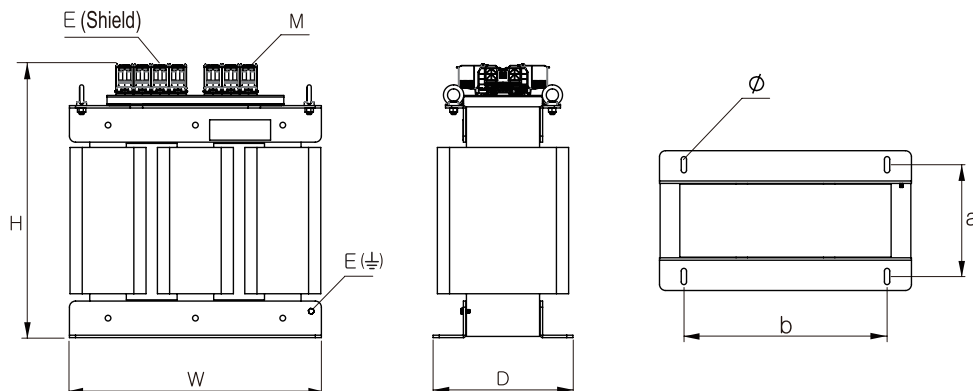
- UL 5085-1/2
- UL 1059(Terminal Block)
- IEC 61558

● Specifications

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)								WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	Ø	E(±)	M	
WY3P44D-20KUL	WT	△ ①380 ②400 ③415 ④440 ⑤460 ⑥480	△N ①380 ②400 ③415 ④440 ⑤460 ⑥480	20k	450	400	244	189	205/140	14 x 35	M6	M6	110.50
WY3P44D-30KUL				30k	460	525	279	213	240	13 x 40	M8	M6, M8	175.00
WY3P44D-40KUL				40k	480	524	299	299	240	13 x 40	M8	M8	210.00
WY3P44D-50KUL				50k	520	535	309	239	340	13 x 40	M8	M8	265.00
WY3P44D-60KUL				60k	550	613	334	265	420	13 x 40	M8	M8, M10	340.00
WY3P44D-75KUL				75k	550	613	334	265	420	13 x 40	M8	M8, M10	370.00
WY3P44D-100KUL				100k	620	673	344	275	500	13 x 40	M8	M10	495.00

※ 1차, 2차 전압은 주문시 선택

● Dimension



TAP 개수에 따른 적용단자 -단상

● 단상 UL 7.5KUL ~ 20KUL

MODEL NO.	TAP 개수		적용단자			
	1차	2차	E(Shield)	E(≡)	Pri.	Sec.
WY12-7.5 / 10KUL WY21-7.5 / 10KUL WY22-7.5 / 10KUL WY24-7.5 / 10KUL WY41-7.5 / 10KUL WY42-7.5 / 10KUL	1	1	M6	M5	M6	M6
	1	2	M6	M5	M6	M6
	2	1	M6	M5	M6	M6
	2	2	M6	M5	M6	M6
	1	3	M6	M5	M6	M6
	3	1	M6	M5	M6	M6
	3	3	M6	M5	M6	M6
WY12-15KUL	1	1	M6	M5	M8	M6
	2	1	M6	M5	M8	M6
	3	1	M6	M5	M8	M6
	1	2	M6	M5	M8	M6
	1	3	M6	M5	M8	M6
WY21-15KUL WY41-15KUL	1	1	M6	M5	M6	M8
	2	1	M6	M5	M6	M8
	3	1	M6	M5	M6	M8
	1	2	M6	M5	M6	M8
	1	3	M6	M5	M6	M8
WY22-15KUL WY24-15KUL WY42-15KUL	1	1	M6	M5	M6	M6
	1	2	M6	M5	M6	M6
	2	1	M6	M5	M6	M6
	2	2	M6	M5	M6	M6
	1	3	M6	M5	M6	M6
	3	1	M6	M5	M6	M6
	3	3	M6	M5	M6	M6
WY12-20KUL	1	1	M6	M5	M10	M6
	2	1	M6	M5	M10	M6
	3	1	M6	M5	M10	M6
	1	2	M6	M5	M10	M6
	1	3	M6	M5	M10	M6
WY21-20KUL WY41-20KUL	1	1	M6	M5	M6	M10
	2	1	M6	M5	M6	M10
	3	1	M6	M5	M6	M10
	1	2	M6	M5	M6	M10
	1	3	M6	M5	M6	M10
WY22-20KUL WY24-20KUL WY42-20KUL	1	1	M6	M5	M6	M6
	1	2	M6	M5	M6	M6
	2	1	M6	M5	M6	M6
	2	2	M6	M5	M6	M6
	1	3	M6	M5	M6	M6
	3	1	M6	M5	M6	M6
	3	3	M6	M5	M6	M6

※ 단자규격은 상황에 따라 변동될수있음.

● 단상 UL 30KUL ~ 100KUL

MODEL NO.	TAP 개수		적용단자			
	1차	2차	E(Shield)	E(≡)	Pri.	Sec.
WY11-30KUL	1	1	M6	M5	M10	M10
WY12-30KUL	1	1	M6	M5	M10	M8
	2	1	M6	M5	M10	M8
	3	1	M6	M5	M10	M8
	1	2	M6	M5	M10	M8
	1	3	M6	M5	M10	M8
WY21-30KUL	1	1	M6	M5	M8	M10
	2	1	M6	M5	M8	M10
	3	1	M6	M5	M8	M10
	1	2	M6	M5	M8	M10
	1	3	M6	M5	M8	M10
WY22-30KUL	1	1	M6	M5	M8	M8
	1	2	M6	M5	M8	M8
	2	1	M6	M5	M8	M8
	2	2	M6	M5	M8	M8
	1	3	M6	M5	M8	M8
WY24-30KUL	3	1	M6	M5	M8	M8
	1	1	M6	M5	M8	M6
	2	1	M6	M5	M8	M6
	3	1	M6	M5	M8	M6
	1	2	M6	M5	M8	M6
WY41-30KUL	1	3	M6	M5	M8	M6
	1	1	M6	M5	M6	M10
	2	1	M6	M5	M6	M10
	3	1	M6	M5	M6	M10
	1	2	M6	M5	M6	M10
WY42-30KUL	1	3	M6	M5	M6	M10
	1	1	M6	M5	M6	M8
	2	1	M6	M5	M6	M8
	3	1	M6	M5	M6	M8
	1	2	M6	M5	M6	M8
	1	3	M6	M5	M6	M8
	1	3	M6	M5	M6	M8
	1	3	M6	M5	M6	M8

※ 단자규격은 상황에 따라 변동될수있음.

UL TYPE TRANSFORMER

TAP 개수에 따른 적용단자 - 삼상

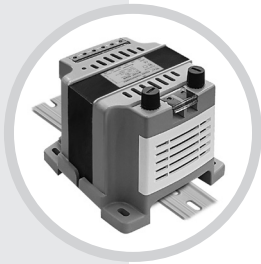
● 삼상 UL 20KUL ~ 100KUL

MODEL NO.	TAP 개수		적용단자			
	1차	2차	E(Shield)	E(⊥)	Pri.	Sec.
WY3P22-20KUL WY3P22D-20KUL WY3P24D-20KUL WY3P42-20KUL WY3P42D-20KUL WY3P44D-20KUL	1	1	M6	M6	M6	M6
	2	1	M6	M6	M6	M6
	1	2	M6	M6	M6	M6
	1	1	M6	M8	M8	M8
	2	1	M6	M8	M8	M8
	1	2	M6	M8	M8	M8
WY3P24D-30KUL	1	1	M6	M6	M8	M6
	2	1	M6	M6	M8	M6
	1	2	M6	M6	M8	M6
WY3P42-30KUL WY3P42D-30KUL	1	1	M6	M6	M6	M8
	2	1	M6	M6	M6	M8
	1	2	M6	M6	M6	M8
WY3P44D-30KUL	1	1	M6	M6	M6	M6
	2	1	M6	M6	M6	M6
	1	2	M6	M6	M6	M6
WY3P22-40/50KUL WY3P22D-40/50KUL WY3P24D-40/50KUL WY3P42-40/50KUL WY3P42D-40/50KUL WY3P44D-40/50KUL	1	1	M6	M8	M8	M8
	2	1	M6	M8	M8	M8
	1	2	M6	M8	M8	M8
	1	1	M6	M8	M10	M10
	2	1	M6	M8	M10	M10
	1	2	M6	M8	M10	M10
WY3P24D-60/75KUL	1	1	M6	M8	M10	M8
	2	1	M6	M8	M10	M8
	1	2	M6	M8	M10	M8
WY3P42-60/75KUL WY3P42D-60/75KUL	1	1	M6	M8	M8	M10
	2	1	M6	M8	M8	M10
	1	2	M6	M8	M8	M10
WY3P22-100KUL WY3P22D-100KUL WY3P24D-100KUL WY3P42-100KUL WY3P42D-100KUL WY3P44D-100KUL	1	1	M6	M8	M10	M10
	2	1	M6	M8	M10	M10
	1	2	M6	M8	M10	M10

※ 단자규격은 상황에따라 변동될수있음.

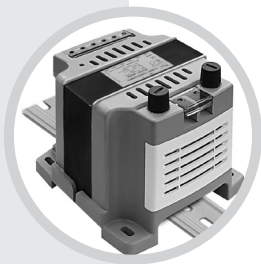
1Ø FUSE 부착형 트랜스포머

Single Phase, Fuse Type Transformer



Fuse Type Transformer

- WY – FD Series



⚠ 경고

- DIN-Rail에 본 제품을 취부 시에는 가급적 철제 DIN-Rail을 사용 바랍니다.
- 장거리 운송을 요하는 장비에 본 제품을 적용 시에는 볼트 체결 취부를 권장합니다.

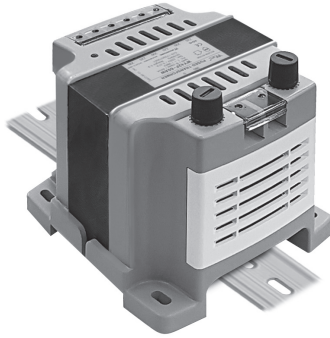
⚠ Warning

- We recommended preferably steel material Din - Rail if mounting Din-Rail this good.
- We recommended bolt mounting for using equipment of required long distance shipping.

DIN-Rail & FUSE TYPE TRANSFORMER

WY2224 - FD Series (온도보호 접점내장)

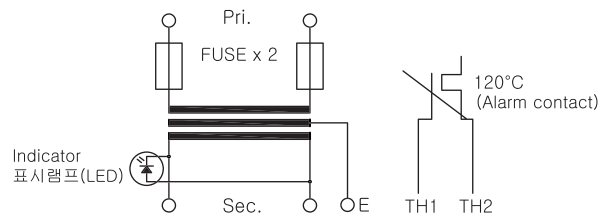
CE RoHS



FUSED TRANSFORMER는 1차 측에 Fuse를 장착하여 제작된것으로 부하 단락 및 과부하시 TRANSFORMER 보호 및 설비의 안전 사고를 미연에 방지할 수 있습니다. 또한 DIN Rail 및 Bolt 취부 겸용으로 DIN Rail 사용시 손쉽게 장착 할 수 있습니다. TRANSFORMER에 전원이 인가되면 전원표시 LED가 점등하여 기기에 통전여부를 확인할 수 있어 소비자의 안정성을 고려한 제품입니다.

The FUSED TRANSFORMER is manufactured by installing a fuse on the TRANSFORMER primary side. It can protect TRANSFORMER and prevent safety accidents in case of short-circuit or overload. In addition, DIN Rail and Bolt are both used for easy installation when using DIN Rail. When power is applied to the TRANSFORMER, the power indicator LED lights up, allowing the user to check whether the power is on or not.

• Circuit Diagram



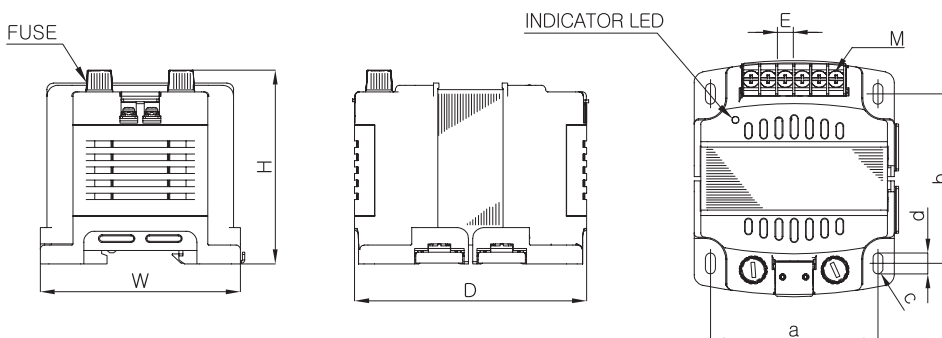
● Specifications

Insulation Class B

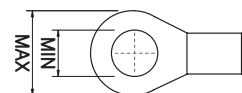
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	E	M	
WY2224-60FD	DIN RAIL & PANEL	220	24	60	93.7	91.4	109.5	77	79	4.5	9.5	7	M3.5	1.80
WY2224-100FD				100	93.7	91.4	123.5	77	93	4.5	9.5	7	M3.5	2.40
WY2224-150FD				150	93.7	91.4	138.5	77	108	4.5	9.5	7	M3.5	3.00
WY2224-200FD			0-24, 0-24	200	122.2	109.4	129.4	100.2	93	5.5	10.5	8.6	M4	4.00
WY2224-280FD				280	122.2	109.4	146.4	100.2	110	5.5	10.5	8.6	M4	5.00
WY2224-350FD				350	122.2	109.4	158.4	100.2	122	5.5	10.5	8.6	M4	5.60

※ Others option

● Dimension



● Terminal



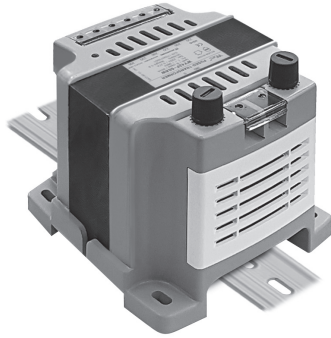
60~200VA : Max 6, Min 3.5
280~350VA : Max 9, Min 4

DIN-Rail & FUSE TYPE TRANSFORMER

WYES[®]
산업용변압기

WY2211 - FD Series (온도보호 접점내장)

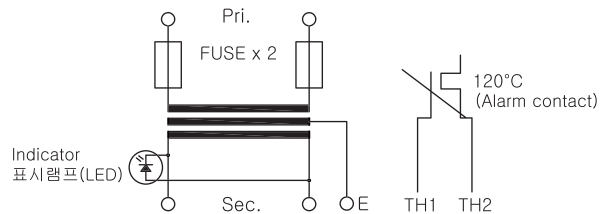
CE RoHS



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• Circuit Diagram



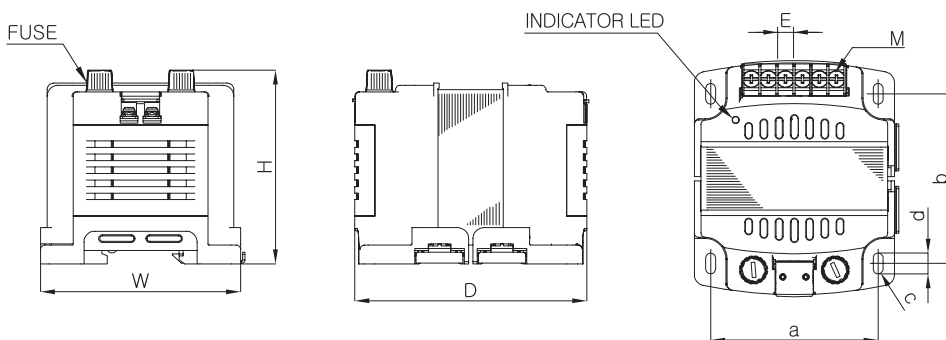
● Specifications

Insulation Class B

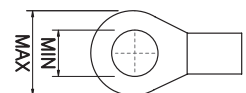
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	E	M	
WY2211-60FD	DIN RAIL & PANEL	220	110	60	93.7	91.4	109.5	77	79	4.5	9.5	7	M3.5	1.80
WY2211-100FD				100	93.7	91.4	123.5	77	93	4.5	9.5	7	M3.5	2.40
WY2211-150FD				150	93.7	91.4	138.5	77	108	4.5	9.5	7	M3.5	3.00
WY2211-200FD				200	122.2	109.4	129.4	100.2	93	5.5	10.5	8.6	M4	4.00
WY2211-280FD				280	122.2	109.4	146.4	100.2	110	5.5	10.5	8.6	M4	5.00
WY2211-350FD				350	122.2	109.4	158.4	100.2	122	5.5	10.5	8.6	M4	5.60

※Others option

● Dimension



● Terminal

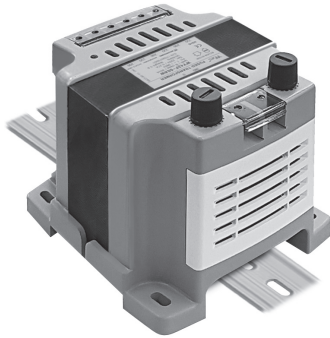


60~200VA : Max 6, Min 3.5
280~350VA : Max 9, Min 4

DIN-Rail & FUSE TYPE TRANSFORMER

WY2222- FD Series (온도보호 접점내장)

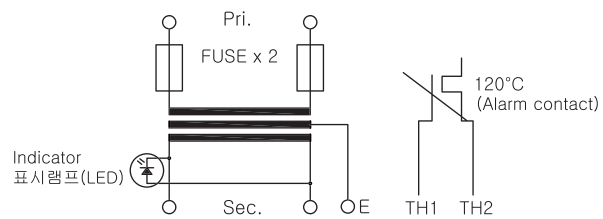
CE RoHS



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•Circuit Diagram



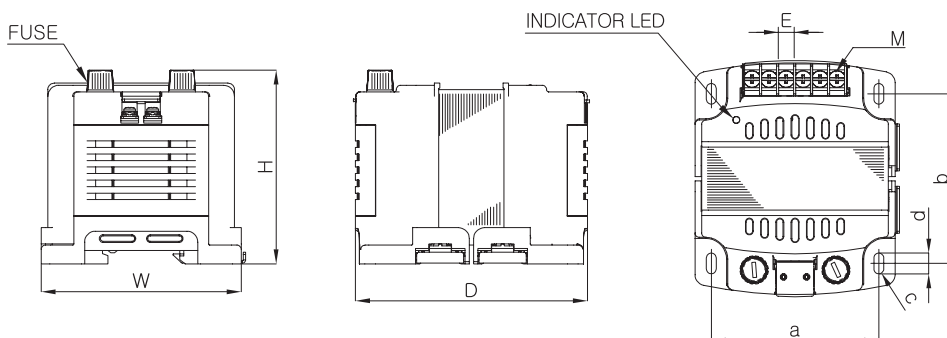
● Specifications

Insulation Class B

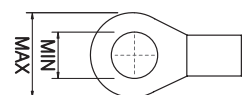
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	E	M	
WY2222-60FD	DIN RAIL & PANEL	220	220	60	93.7	91.4	109.5	77	79	4.5	9.5	7	M3.5	1.80
WY2222-100FD				100	93.7	91.4	123.5	77	93	4.5	9.5	7	M3.5	2.40
WY2222-150FD				150	93.7	91.4	138.5	77	108	4.5	9.5	7	M3.5	3.00
WY2222-200FD				200	122.2	109.4	129.4	100.2	93	5.5	10.5	8.6	M4	4.00
WY2222-280FD				280	122.2	109.4	146.4	100.2	110	5.5	10.5	8.6	M4	5.00
WY2222-350FD				350	122.2	109.4	158.4	100.2	122	5.5	10.5	8.6	M4	5.60

※ Others option

● Dimension



● Terminal

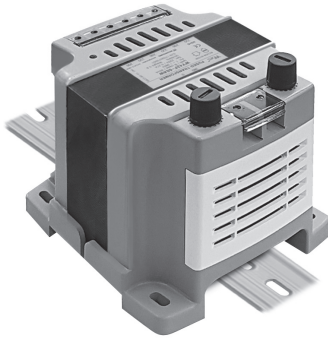


60~200VA : Max 6, Min 3.5
280~350VA : Max 9, Min 4

DIN-Rail & FUSE TYPE TRANSFORMER

WY3811- FD Series (온도보호 접점내장)

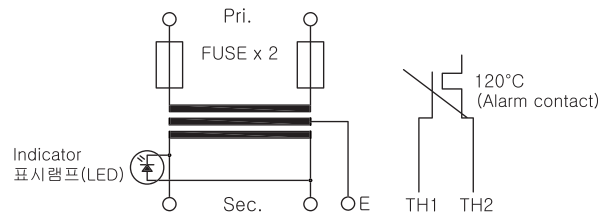
CE RoHS



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•Circuit Diagram



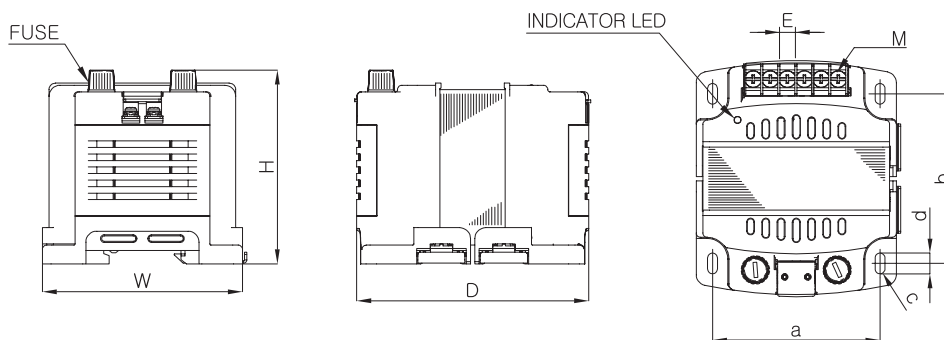
● Specifications

Insulation Class B

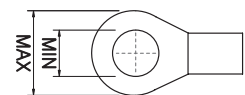
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	E	M	
WY3811-60FD	DIN RAIL & PANEL	380	110	60	93.7	91.4	109.5	77	79	4.5	9.5	7	M3.5	1.80
WY3811-100FD				100	93.7	91.4	123.5	77	93	4.5	9.5	7	M3.5	2.40
WY3811-150FD				150	93.7	91.4	138.5	77	108	4.5	9.5	7	M3.5	3.00
WY3811-200FD				200	122.2	109.4	129.4	100.2	93	5.5	10.5	8.6	M4	4.00
WY3811-280FD				280	122.2	109.4	146.4	100.2	110	5.5	10.5	8.6	M4	5.00
WY3811-350FD				350	122.2	109.4	158.4	100.2	122	5.5	10.5	8.6	M4	5.60

※Others option

● Dimension



● Terminal



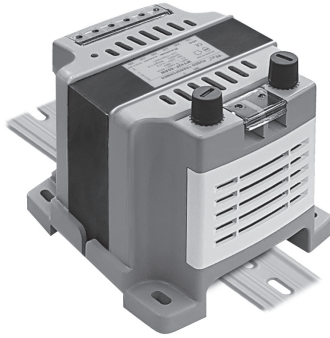
60~200VA : Max 6, Min 3.5
280~350VA : Max 9, Min 4

TRANS=인버터
REACTOR=리액터
SSR=무정전압릴레이
TPR=전력조정기
SMPS=스위칭파워
N/F=노이즈필터
H/F=하모닉필터
SPD=서지보호기
RELAY=보호계전기
ELD=경보기
ZCT=영상변류기
METER=판넬메타
CT=계기용변성기
SHUNT=선트팬

DIN-Rail & FUSE TYPE TRANSFORMER

WY3822- FD Series (온도보호 접점내장)

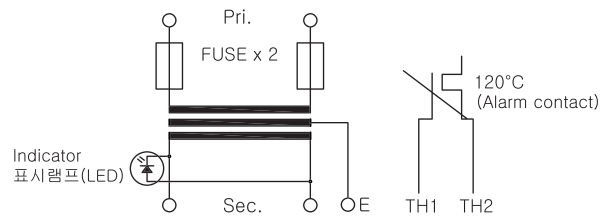
CE RoHS



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•Circuit Diagram



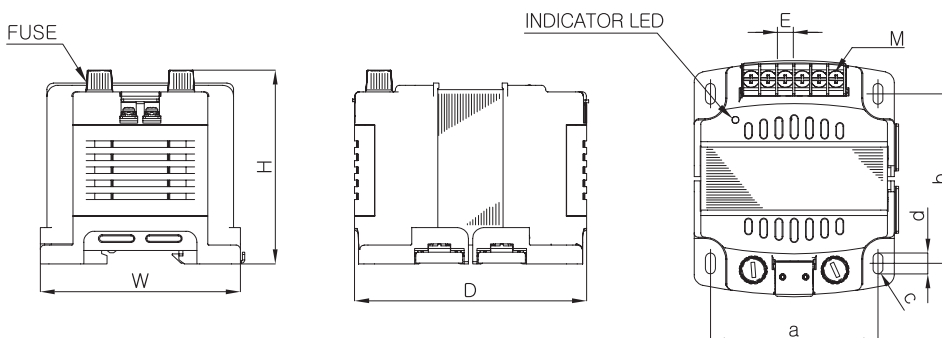
● Specifications

Insulation Class B

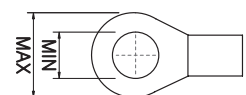
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	E	M	
WY3822-60FD	DIN RAIL & PANEL	380	220	60	93.7	91.4	109.5	77	79	4.5	9.5	7	M3.5	1.80
WY3822-100FD				100	93.7	91.4	123.5	77	93	4.5	9.5	7	M3.5	2.40
WY3822-150FD				150	93.7	91.4	138.5	77	108	4.5	9.5	7	M3.5	3.00
WY3822-200FD				200	122.2	109.4	129.4	100.2	93	5.5	10.5	8.6	M4	4.00
WY3822-280FD				280	122.2	109.4	146.4	100.2	110	5.5	10.5	8.6	M4	5.00
WY3822-350FD				350	122.2	109.4	158.4	100.2	122	5.5	10.5	8.6	M4	5.60

※ Others option

● Dimension



● Terminal

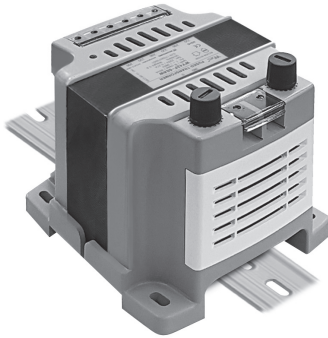


60~200VA : Max 6, Min 3.5
280~350VA : Max 9, Min 4

DIN-Rail & FUSE TYPE TRANSFORMER

WY4411- FD Series (온도보호 접점내장)

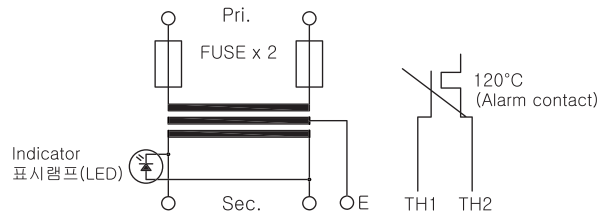
CE RoHS



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•Circuit Diagram



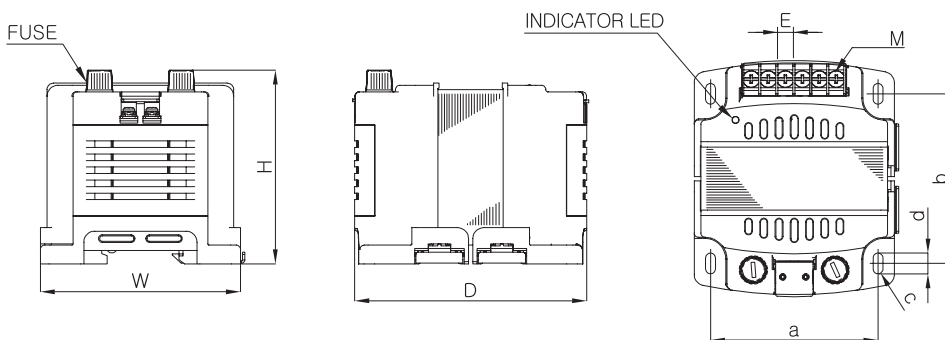
● Specifications

Insulation Class B

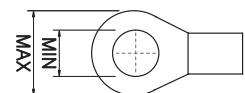
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	E	M	
WY4411-60FD	DIN RAIL & PANEL	440	110	60	93.7	91.4	109.5	77	79	4.5	9.5	7	M3.5	1.80
WY4411-100FD				100	93.7	91.4	123.5	77	93	4.5	9.5	7	M3.5	2.40
WY4411-150FD				150	93.7	91.4	138.5	77	108	4.5	9.5	7	M3.5	3.00
WY4411-200FD				200	122.2	109.4	129.4	100.2	93	5.5	10.5	8.6	M4	4.00
WY4411-280FD				280	122.2	109.4	146.4	100.2	110	5.5	10.5	8.6	M4	5.00
WY4411-350FD				350	122.2	109.4	158.4	100.2	122	5.5	10.5	8.6	M4	5.60

※ Others option

● Dimension



● Terminal



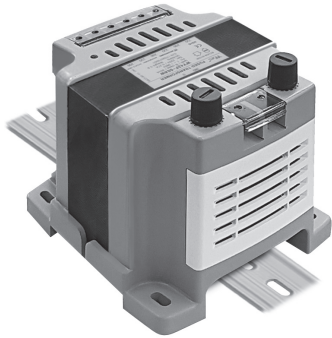
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280~350VA : Max 9, Min 4

트랜스포머
REACTOR
리액터
무정전압 레일
SSR
전력조정기
TPR
스위칭 파워
SMP
노이즈 필터
N/F
하모닉 필터
H/F
서지보호기
SPD
보호계전기
RELAY
누전경보기
ELD=GF
영상변류기
ZCT
판넬메타
METER
계기용변성기
CT=VT
선풍팬
SHUNT=FAN

DIN-Rail & FUSE TYPE TRANSFORMER

WY4422- FD Series (온도보호 접점내장)

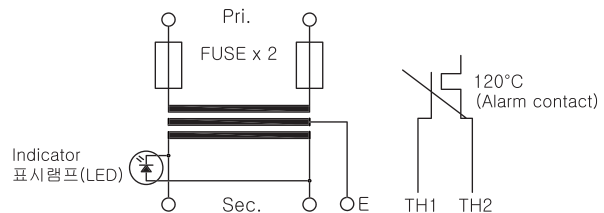
CE RoHS



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• Circuit Diagram



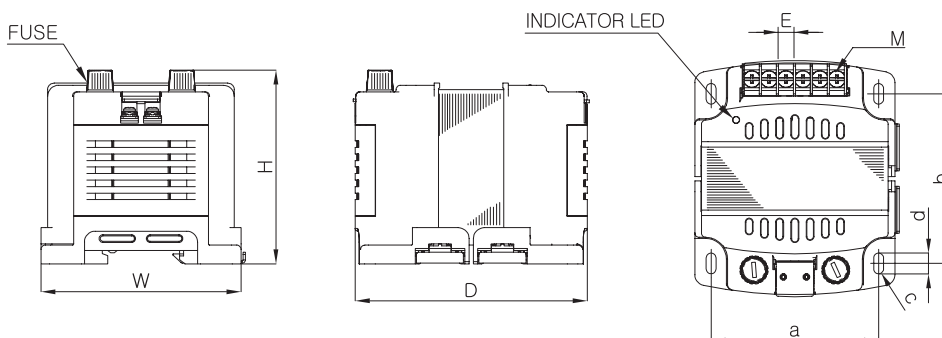
● Specifications

Insulation Class B

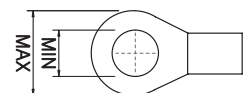
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	E	M	
WY4422-60FD	DIN RAIL & PANEL	440	220	60	93.7	91.4	109.5	77	79	4.5	9.5	7	M3.5	1.80
WY4422-100FD				100	93.7	91.4	123.5	77	93	4.5	9.5	7	M3.5	2.40
WY4422-150FD				150	93.7	91.4	138.5	77	108	4.5	9.5	7	M3.5	3.00
WY4422-200FD				200	122.2	109.4	129.4	100.2	93	5.5	10.5	8.6	M4	4.00
WY4422-280FD				280	122.2	109.4	146.4	100.2	110	5.5	10.5	8.6	M4	5.00
WY4422-350FD				350	122.2	109.4	158.4	100.2	122	5.5	10.5	8.6	M4	5.60

※ Others option

● Dimension



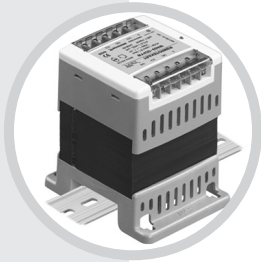
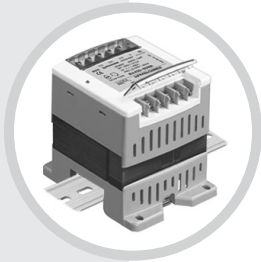
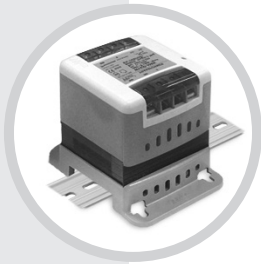
● Terminal



60~200VA : Max 6, Min 3.5
280~350VA : Max 9, Min 4

DIN-Rail 트랜스포머

DIN-Rail Transformer



DIN-Rail Type Transformer

- WY2224 – TD Series
- WY2211 – TD Series
- WY2222 – TD Series
- WY3811 – TD Series
- WY3822 – TD Series
- WY4411 – TD Series
- WY4422 – TD Series



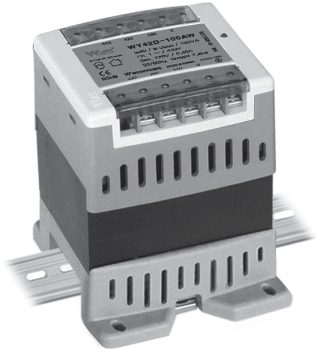
경고

- DIN-Rail에 본 제품을 취부 시에는 가급적 철제 DIN-Rail을 사용 바랍니다.
- 장거리 운송을 요하는 장비에 본 제품을 적용 시에는 볼트 체결 취부를 권장합니다.



Warning

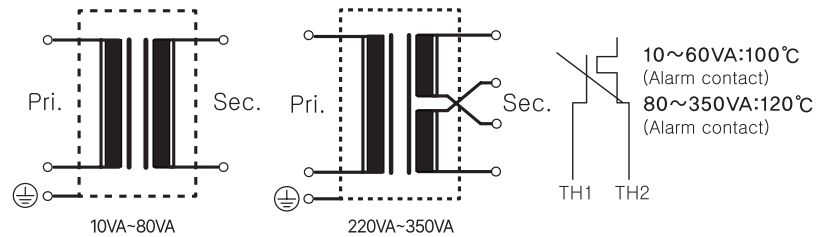
- We recommended preferably steel material Din - Rail if mounting Din-Rail this good.
- We recommended bolt mounting for using equipment of required long distance shipping.



단상 복권형으로 AC 220V 이며 출력은 AC 24V로 10VA부터 350VA까지 규격화 하였습니다. AC 입력 전압 인가시 전원 표시 LED가 동작하여 소비자의 안정성을 고려한 제품입니다. DIN Rail 전용(Bolt 취부 겸용)으로 DIN Rail에 손쉽게 장착할 수 있습니다.

Input voltage of single phase is AC 220V and output is AC 24V. Product is standardized from 10VA to 350VA. The AC input voltage is applied, the power indicator LED operates in consideration of the safety of the consumer. It is easily mounted on DIN Rail.

•Circuit Diagram



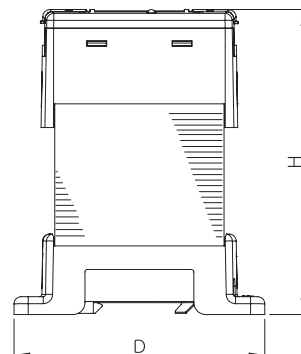
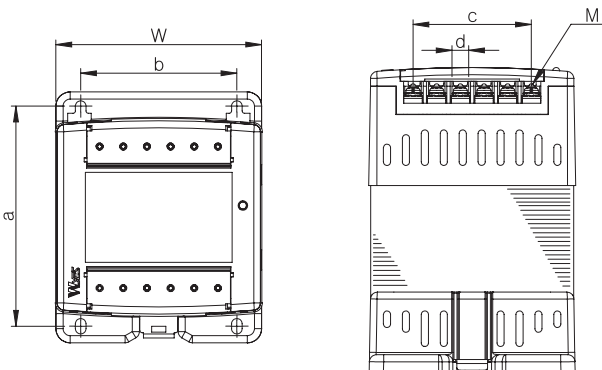
● Specifications

Insulation Class B

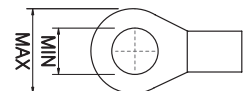
MODEL NO.	TYPE	SPECIFICATIONS		CAPA. (VA)	DIMENSIONS (mm)								WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	M	
• 220V Line → 24V Line													
WY2224-10TD	DIN RAIL & PANEL	0-220	0-24	10	68.8	84.8	96.8	77.5	50	30	7	M3.5	0.76
WY2224-20TD				20	68.8	84.8	96.8	77.5	50	30	7	M3.5	0.76
WY2224-30TD				30	68.8	87.8	96.8	77.5	50	30	7	M3.5	0.89
WY2224-40TD				40	68.8	93.8	96.8	77.5	50	30	7	M3.5	0.76
WY2224-60TD				60	68.8	108.8	96.8	77.5	50	30	7	M3.5	0.89
WY2224-80TD				80	86.9	99.9	106	93	66	50	7	M3.5	1.80
WY2224-120TD				120	86.9	113.9	106	93	66	50	7	M3.5	2.40
WY2224-180TD				180	86.9	128.9	106	93	66	50	7	M3.5	3.00
WY2224-220TD			0-24, 0-24	220	115	117.7	130	116	90.9	65	10	M4	4.00
WY2224-280TD				280	115	134.7	130	116	90.9	65	10	M4	5.00
WY2224-350TD				350	115	146.7	130	116	90.9	65	10	M4	5.60

※ Others option

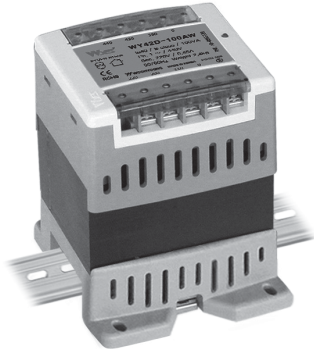
● Dimension



● Terminal



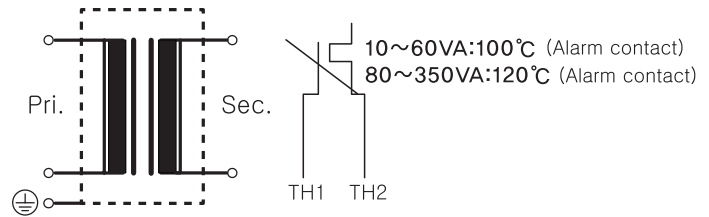
10~180VA : Max 6, Min 3.5
220~350VA : Max 9, Min 4



단상 복권형으로 AC 220V 이며 출력은 AC 110V로 10VA부터 350VA까지 규격화 하였습니다. AC 입력 전압 인가시 전원 표시 LED가 동작하여 소비자의 안정성을 고려한 제품입니다. DIN Rail 전용(Bolt 취부 겸용)으로 DIN Rail에 손쉽게 장착 할 수 있습니다.

Input voltage of single phase is AC 220V and output is AC 110V. Product is standardized from 10VA to 350VA. The AC input voltage is applied, the power indicator LED operates in consideration of the safety of the consumer. It is easily mounted on DIN Rail.

•Circuit Diagram



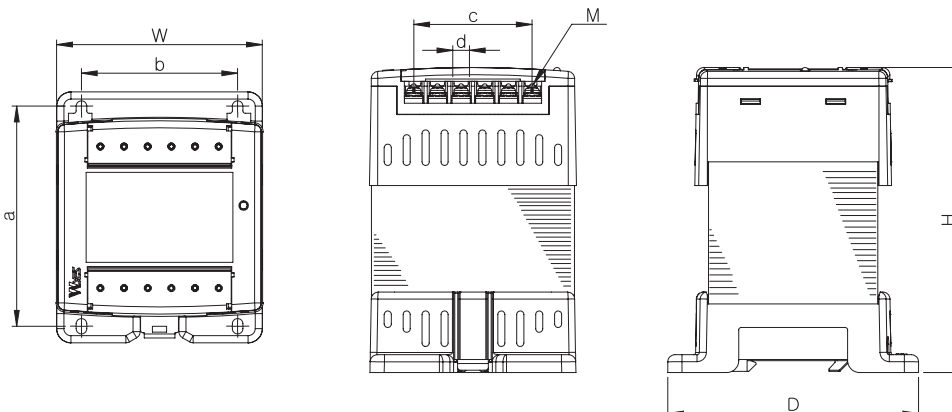
● Specifications

Insulation Class B

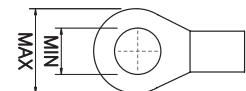
MODEL NO.	TYPE	SPECIFICATIONS		CAPA. (VA)	DIMENSIONS (mm)								WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	M	
• 220V Line → 110V Line													
WY2211-10TD	DIN RAIL & PANEL	0-220	0-110	10	68.8	84.8	96.8	77.5	50	30	7	M3.5	0.76
WY2211-20TD				20	68.8	84.8	96.8	77.5	50	30	7	M3.5	0.76
WY2211-30TD				30	68.8	87.8	96.8	77.5	50	30	7	M3.5	0.89
WY2211-40TD				40	68.8	93.8	96.8	77.5	50	30	7	M3.5	0.76
WY2211-60TD				60	68.8	108.8	96.8	77.5	50	30	7	M3.5	0.89
WY2211-80TD				80	86.9	99.9	106	93	66	50	7	M3.5	1.80
WY2211-120TD				120	86.9	113.9	106	93	66	50	7	M3.5	2.40
WY2211-180TD				180	86.9	128.9	106	93	66	50	7	M3.5	3.00
WY2211-220TD				220	115	117.7	130	116	90.9	65	10	M4	4.00
WY2211-280TD				280	115	134.7	130	116	90.9	65	10	M4	5.00
WY2211-350TD				350	115	146.7	130	116	90.9	65	10	M4	5.60

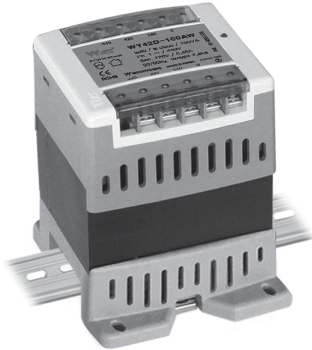
※ Others option

● Dimension



● Terminal

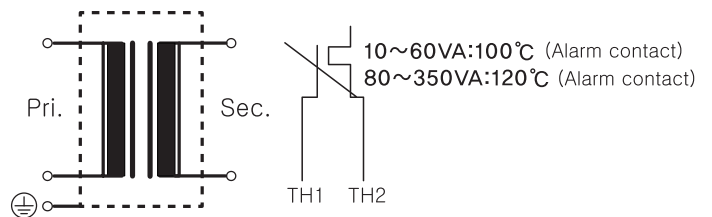




단상 복권형으로 AC 220V 이며 출력은 AC 220V로 10VA부터 350VA까지 규격화 하였습니다. AC 입력 전압 인가시 전원 표시 LED가 동작하여 소비자의 안전성을 고려한 제품입니다. DIN Rail 전용(Bolt 취부 겸용)으로 DIN Rail에 손쉽게 장착 할 수 있습니다.

Input voltage of single phase is AC 220V and output is AC 220V. Product is standardized from 10VA to 350VA. The AC input voltage is applied, the power indicator LED operates in consideration of the safety of the consumer. It is easily mounted on DIN Rail.

•Circuit Diagram



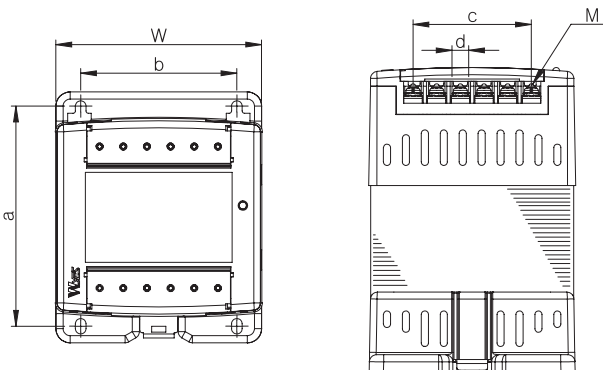
● Specifications

Insulation Class B

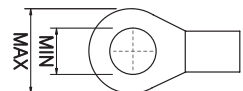
MODEL NO.	TYPE	SPECIFICATIONS		CAPA. (VA)	DIMENSIONS (mm)								WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	M	
• 220V Line → 220V Line													
WY2222-10TD	DIN RAIL & PANEL	0-220	0-220	10	68.8	84.8	96.8	77.5	50	30	7	M3.5	0.76
WY2222-20TD				20	68.8	84.8	96.8	77.5	50	30	7	M3.5	0.76
WY2222-30TD				30	68.8	87.8	96.8	77.5	50	30	7	M3.5	0.89
WY2222-40TD				40	68.8	93.8	96.8	77.5	50	30	7	M3.5	0.76
WY2222-60TD				60	68.8	108.8	96.8	77.5	50	30	7	M3.5	0.89
WY2222-80TD				80	86.9	99.9	106	93	66	50	7	M3.5	1.80
WY2222-120TD				120	86.9	113.9	106	93	66	50	7	M3.5	2.40
WY2222-180TD				180	86.9	128.9	106	93	66	50	7	M3.5	3.00
WY2222-220TD				220	115	117.7	130	116	90.9	65	10	M4	4.00
WY2222-280TD				280	115	134.7	130	116	90.9	65	10	M4	5.00
WY2222-350TD				350	115	146.7	130	116	90.9	65	10	M4	5.60

※Others option

● Dimension



● Terminal



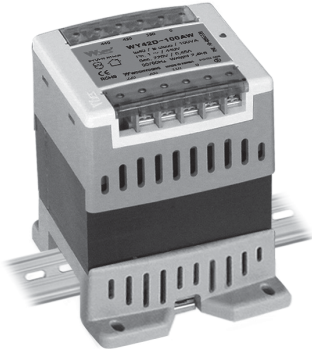
10~180VA : Max 6, Min 3.5
220~350VA : Max 9, Min 4

DIN - Rail TRANSFORMER

WYES
산업용변압기

WY3811-TD Series

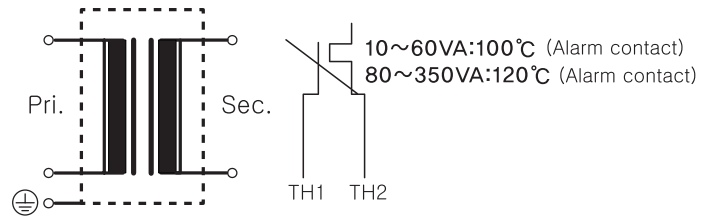
CE RoHS



단상 복권형으로 AC 380V 이며 출력은 AC 110V로 10VA부터 350VA까지 규격화 하였습니다. AC 입력 전압 인가시 전원 표시 LED가 동작하여 소비자의 안정성을 고려한 제품입니다. DIN Rail 전용(Bolt 취부 겸용)으로 DIN Rail에 손쉽게 장착할 수 있습니다.

Input voltage of single phase is AC 380V and output is AC 110V. Product is standardized from 10VA to 350VA. The AC input voltage is applied, the power indicator LED operates in consideration of the safety of the consumer. It is easily mounted on DIN Rail.

•Circuit Diagram



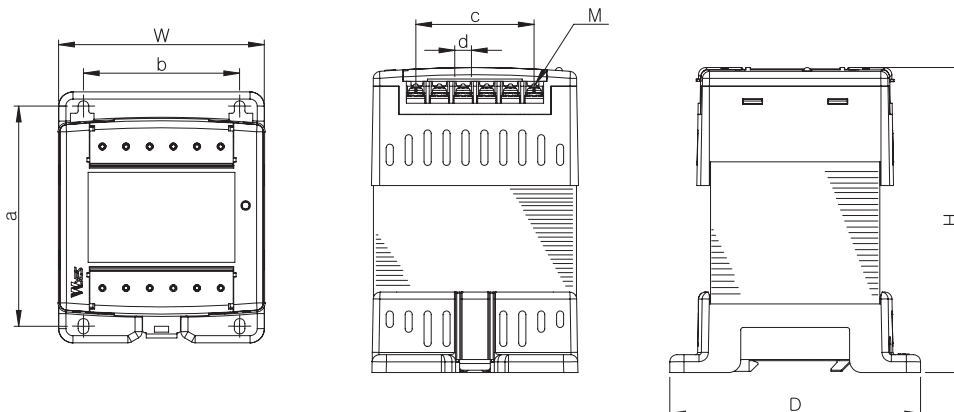
● Specifications

Insulation Class B

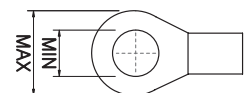
MODEL NO.	TYPE	SPECIFICATIONS		CAPA. (VA)	DIMENSIONS (mm)								WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	M	
• 380V Line → 110V Line													
WY3811—10TD	DIN RAIL & PANEL	0-380	0-110	10	68.8	84.8	96.8	77.5	50	30	7	M3.5	0.76
WY3811—20TD				20	68.8	84.8	96.8	77.5	50	30	7	M3.5	0.76
WY3811—30TD				30	68.8	87.8	96.8	77.5	50	30	7	M3.5	0.89
WY3811—40TD				40	68.8	93.8	96.8	77.5	50	30	7	M3.5	0.76
WY3811—60TD				60	68.8	108.8	96.8	77.5	50	30	7	M3.5	0.89
WY3811—80TD				80	86.9	99.9	106	93	66	50	7	M3.5	1.80
WY3811—120TD				120	86.9	113.9	106	93	66	50	7	M3.5	2.40
WY3811—180TD				180	86.9	128.9	106	93	66	50	7	M3.5	3.00
WY3811—220TD				220	115	117.7	130	116	90.9	65	10	M4	4.00
WY3811—280TD				280	115	134.7	130	116	90.9	65	10	M4	5.00
WY3811—350TD				350	115	146.7	130	116	90.9	65	10	M4	5.60

※Others option

● Dimension



● Terminal

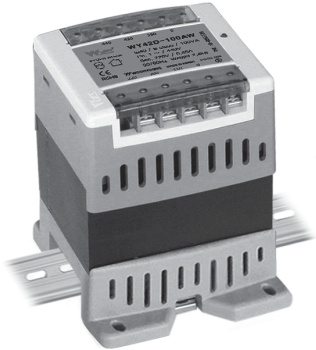


10~180VA : Max 6, Min 3.5
220~350VA : Max 9, Min 4

트랜스포머
REACTOR
리액터
무정전압레일
SSR
전력조정기
TPR
스위칭파워
SMP
노이즈필터
N/F
하모닉필터
H/F
서지보호기
SPD
보호계전기
RELAY
누전경보기
ELD=GF
R
영상변류기
ZCT
판넬메타
METER
계기용변성기
CT=VT
SHUNT=FA
N

DIN - Rail TRANSFORMER

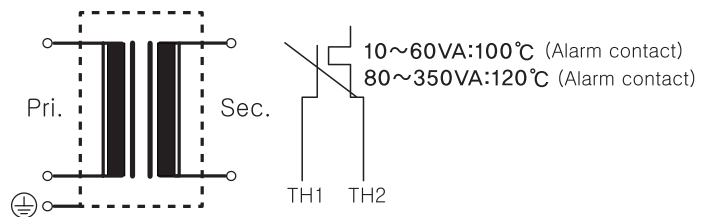
WY3822-TD Series



단상 복권형으로 AC 380V 이며 출력은 AC 220V로 10VA부터 350VA까지 규격화 하였습니다. AC 입력 전압 인가시 전원 표시 LED가 동작하여 소비자의 안정성을 고려한 제품입니다. DIN Rail 전용(Bolt 취부 겸용)으로 DIN Rail에 손쉽게 장착 할 수 있습니다.

Input voltage of single phase is AC 380V and output is AC 220V. Product is standardized from 10VA to 350VA. The AC input voltage is applied, the power indicator LED operates in consideration of the safety of the consumer. It is easily mounted on DIN Rail.

• Circuit Diagram



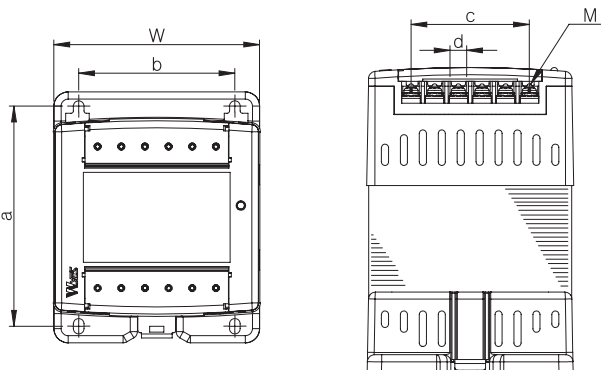
● Specifications

Insulation Class B

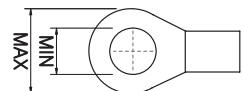
MODEL NO.	TYPE	SPECIFICATIONS		CAPA. (VA)	DIMENSIONS (mm)								WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	M	
• 380V Line → 220V Line													
WY3822-10TD	DIN RAIL & PANEL	0-380	0-220	10	68.8	84.8	96.8	77.5	50	30	7	M3.5	0.76
WY3822-20TD				20	68.8	84.8	96.8	77.5	50	30	7	M3.5	0.76
WY3822-30TD				30	68.8	87.8	96.8	77.5	50	30	7	M3.5	0.89
WY3822-40TD				40	68.8	93.8	96.8	77.5	50	30	7	M3.5	0.76
WY3822-60TD				60	68.8	108.8	96.8	77.5	50	30	7	M3.5	0.89
WY3822-80TD				80	86.9	99.9	106	93	66	50	7	M3.5	1.80
WY3822-120TD				120	86.9	113.9	106	93	66	50	7	M3.5	2.40
WY3822-180TD				180	86.9	128.9	106	93	66	50	7	M3.5	3.00
WY3822-220TD				220	115	117.7	130	116	90.9	65	10	M4	4.00
WY3822-280TD				280	115	134.7	130	116	90.9	65	10	M4	5.00
WY3822-350TD				350	115	146.7	130	116	90.9	65	10	M4	5.60

※ Others option

● Dimension



● Terminal



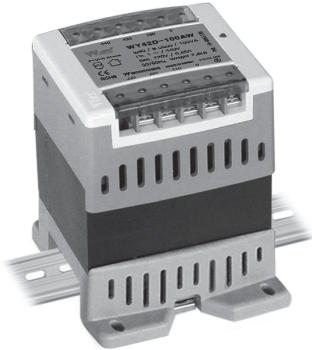
10~180VA : Max 6, Min 3.5
220~350VA : Max 9, Min 4

DIN - Rail TRANSFORMER

WYES®
산업용변압기

WY4411-TD Series

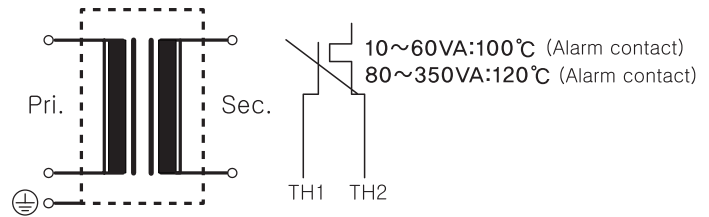
CE RoHS



단상 복권형으로 AC 440V 이며 출력은 AC 110V로 10VA부터 350VA까지 규격화 하였습니다. AC 입력 전압 인가시 전원 표시 LED가 동작하여 소비자의 안정성을 고려한 제품입니다. DIN Rail 전용(Bolt 취부 겸용)으로 DIN Rail에 손쉽게 장착 할 수 있습니다.

Input voltage of single phase is AC 380V, 440V and output is AC 110V. Product is standardized from 10VA to 350VA. The AC input voltage is applied, the power indicator LED operates in consideration of the safety of the consumer. It is easily mounted on DIN Rail.

• Circuit Diagram



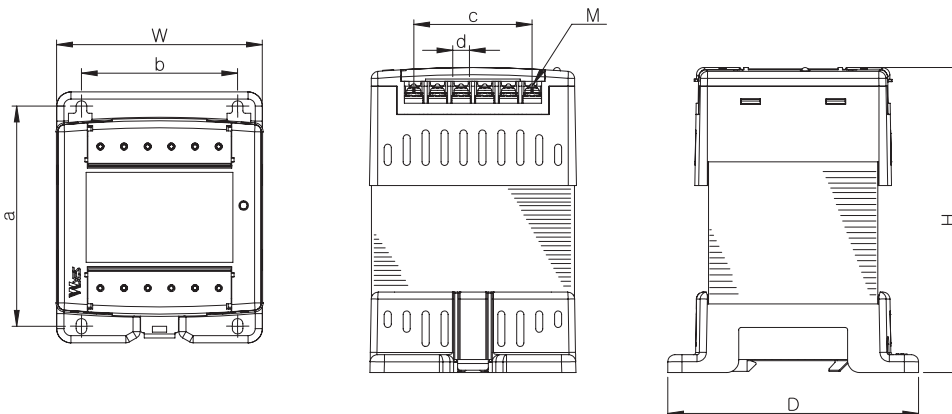
● Specifications

Insulation Class B

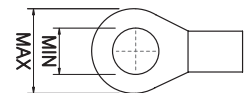
MODEL NO.	TYPE	SPECIFICATIONS		CAPA. (VA)	DIMENSIONS (mm)								WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	M	
• 440V Line → 110V Line													
WY4411-10TD	DIN RAI & PANEL	0-440	0-110	10	68.8	84.8	96.8	77.5	50	30	7	M3.5	0.76
WY4411-20TD				20	68.8	84.8	96.8	77.5	50	30	7	M3.5	0.76
WY4411-30TD				30	68.8	87.8	96.8	77.5	50	30	7	M3.5	0.89
WY4411-40TD				40	68.8	93.8	96.8	77.5	50	30	7	M3.5	0.76
WY4411-60TD				60	68.8	108.8	96.8	77.5	50	30	7	M3.5	0.89
WY4411-80TD				80	86.9	99.9	106	93	66	50	7	M3.5	1.80
WY4411-120TD				120	86.9	113.9	106	93	66	50	7	M3.5	2.40
WY4411-180TD				180	86.9	128.9	106	93	66	50	7	M3.5	3.00
WY4411-220TD				220	115	117.7	130	116	90.9	65	10	M4	4.00
WY4411-280TD				280	115	134.7	130	116	90.9	65	10	M4	5.00
WY4411-350TD				350	115	146.7	130	116	90.9	65	10	M4	5.60

※Others option

● Dimension



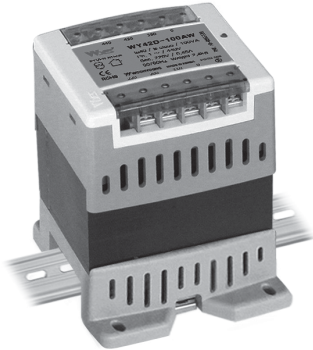
● Terminal



10~180VA : Max 6, Min 3.5
220~350VA : Max 9, Min 4

DIN - Rail TRANSFORMER

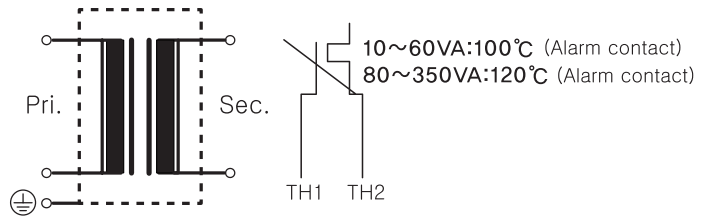
WY4422-TD Series



단상 복권형으로 AC 440V 이며 출력은 AC 220V로 10VA부터 350VA까지 규격화 하였습니다.
AC 입력 전압 인가시 전원 표시 LED가 동작하여 소비자의 안전성을 고려한 제품입니다. DIN Rail 전
용(Bolt 취부 겸용)으로 DIN Rail에 손쉽게 장착할 수 있습니다.

Input voltage of single phase is AC 440V and output is AC 220V.
Product is standardized from 10VA to 350VA. The AC input voltage
is applied, the power indicator LED operates in consideration of the
safety of the consumer. It is easily mounted on DIN Rail.

• Circuit Diagram



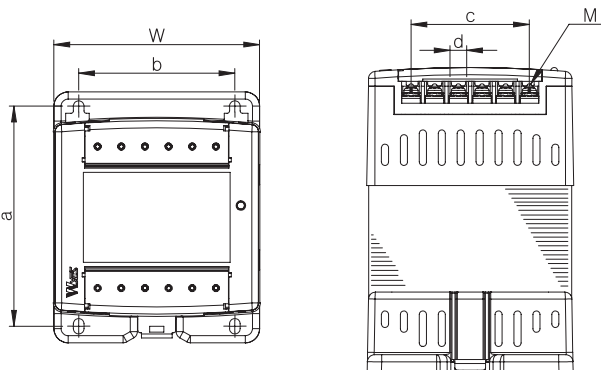
● Specifications

Insulation Class B

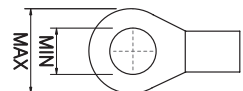
MODEL NO.	TYPE	SPECIFICATIONS		CAPA. (VA)	DIMENSIONS (mm)								WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	M	
• 440V Line → 220V Line													
WY4422-10TD	DIN RAIL & PANEL	0-440	0-22.0	10	68.8	84.8	96.8	77.5	50	30	7	M3.5	0.76
WY4422-20TD				20	68.8	84.8	96.8	77.5	50	30	7	M3.5	0.76
WY4422-30TD				30	68.8	87.8	96.8	77.5	50	30	7	M3.5	0.89
WY4422-40TD				40	68.8	93.8	96.8	77.5	50	30	7	M3.5	0.76
WY4422-60TD				60	68.8	108.8	96.8	77.5	50	30	7	M3.5	0.89
WY4422-80TD				80	86.9	99.9	106	93	66	50	7	M3.5	1.80
WY4422-120TD				120	86.9	113.9	106	93	66	50	7	M3.5	2.40
WY4422-180TD				180	86.9	128.9	106	93	66	50	7	M3.5	3.00
WY4422-220TD				220	115	117.7	130	116	90.9	65	10	M4	4.00
WY4422-280TD				280	115	134.7	130	116	90.9	65	10	M4	5.00
WY4422-350TD				350	115	146.7	130	116	90.9	65	10	M4	5.60

※ Others option

● Dimension



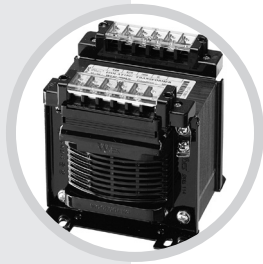
● Terminal



10~180VA : Max 6, Min 3.5
220~350VA : Max 9, Min 4

경제형 트랜스포머

Single Phase Isolating Transformer



경제형 트랜스포머 General Type Transformer

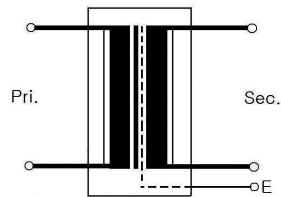
- WY2224 – AP Series
- WY2211 – A Series
- WY3822 – AW Series
- WY4422 – AW Series



단상 복권형으로 입력 AC 220V 출력 AC 24V로, 전압 인가시 LED가 동작하여 전원의 통전상태 유,무가 표시되며 전기종 **CE**인증을 받은 제품으로 신뢰성과 안전성이 확보된 제품으로 경쟁력을 위하여 단일 탭(tap)으로 구성되어있는 경제형 트랜스포머 입니다.

This is of a 1P isolation transformer with AC 220V input and AC 24V output, has an LED working when voltage is applied to display whether power is energized or not, was **CE**-certified for all models, has secured reliability and safety, and is composed of a single tap for competitiveness to be an general transformer.

•Circuit Diagram



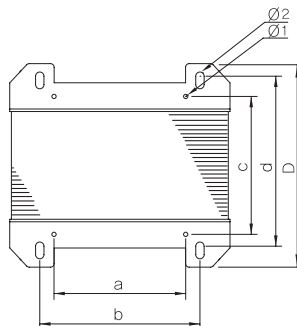
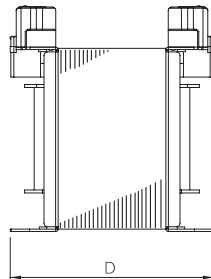
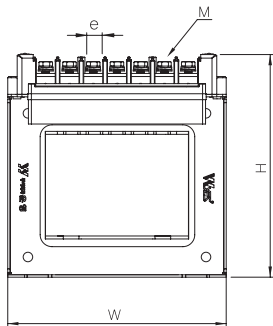
● Specifications

Insulation Class B

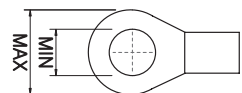
MODEL NO.	TYPE	SPECIFICATIONS		VA	A	DIMENSIONS (mm)											WEIGHT (kg)
		PRI.(V)	SEC.(V)			W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M	
• 24V SERIES																	
WY2224-40AP	WT	0-220	0-24-(E)	40	1.6	79	89	83	42	57	48.5	63	7	Ø3.6	5 x 12	M3.5	1.31
WY2224-60AP				60	2.5	79	89	88	42	57	53.5	68	7	Ø3.6	5 x 12	M3.5	1.65
WY2224-80AP				80	3.3	89	98	105	46	65	62	83	7	Ø3.6	5 x 12	M3.5	2.30
WY2224-100AP				100	4	98	106	105	54	72	61	88	7	Ø3.6	6 x 12	M3.5	2.59
WY2224-150AP				150	6	112	106	105	58	76	60	82	10	Ø3.6	5 x 10	M4	3.45
WY2224-200AP				200	8	112	114	110	58	76	65.5	88	10	Ø3.6	5 x 10	M4	3.60
WY2224-300AP				300	12.5	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
WY2224-500AP				500	20	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10
WY2224-750AP				750	30	160	162	146	96	114	92.5	125	10	Ø3.6	6 x 13	M4	10.70
WY2224-1KAP				1K	40	160	160	157	96	114	102.5	135	10	Ø3.6	6 x 14	M4	12.30
WY2224-1.5KAP				1.5K	60	185	188	151	110	134	95	123	16	Ø3.6	7 x 14	M6	17.00
WY2224-2KAP				2K	80	185	188	171	110	134	115	143	16	Ø3.6	7 x 13	M6	20.10

● Dimension

•WT Type



● Terminal



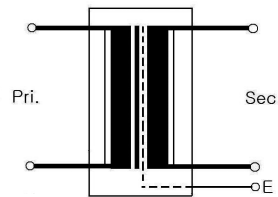
40VA~150VA : Max 6, Min 3.5
200VA~1kVA : Max 9, Min 4
1.5~2kVA : Max 15, Min 6



단상 복권형으로 입력 AC 220V 출력 AC 110V로, 전압 인가시 LED가 동작하여 전원의 통전상태 유,무가 표시되며 전기종 CE인증을 받은 제품으로 신뢰성과 안전성이 확보된 제품으로 경쟁력을 위하여 단일 탭(tap)으로 구성되어있는 경제형 트랜스포머 입니다.

This is of a 1P isolation transformer with AC 220V input and AC 110V output, has an LED working when voltage is applied to display whether power is energized or not, was CE-certified for all models, has secured reliability and safety, and is composed of a single tap for competitiveness to be a general transformer.

•Circuit Diagram



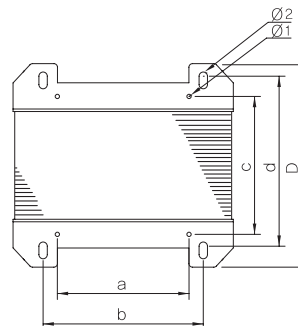
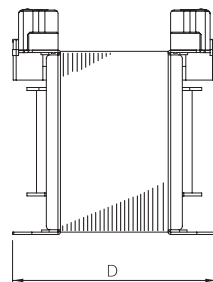
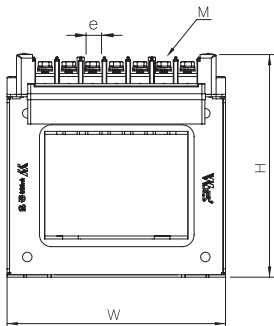
● Specifications

Insulation Class B

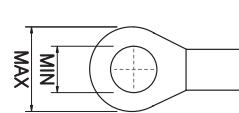
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)											WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M	
WY2211-40A	WT	0-220	0-110-(E)	40	79	89	83	42	57	48.5	63	7	Ø3.6	5 x 12	M3.5	1.31
WY2211-60A				60	79	89	88	42	57	53.5	68	7	Ø3.6	5 x 12	M3.5	1.65
WY2211-80A				80	89	98	105	46	65	62	83	7	Ø3.6	5 x 12	M3.5	2.30
WY2211-100A				100	98	106	105	54	72	61	88	7	Ø3.6	6 x 12	M3.5	2.59
WY2211-150A				150	98	106	113	54	72	68	94	7	Ø3.6	6 x 12	M3.5	3.23
WY2211-200A				200	112	114	110	58	76	65.5	88	10	Ø3.6	5 x 10	M4	3.60
WY2211-300A				300	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
WY2211-500A				500	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10
WY2211-750A				750	160	162	146	96	114	92.5	125	10	Ø3.6	6 x 13	M4	10.70
WY2211-1KA				1K	160	160	157	96	114	102.5	135	10	Ø3.6	6 x 14	M4	12.30
WY2211-1.5KA				1.5K	185	188	151	110	134	95	123	16	Ø3.6	7 x 14	M6	16.50
WY2211-2KA				2K	185	188	171	110	134	115	143	16	Ø3.6	7 x 13	M6	20.10

● Dimension

•WT Type



● Terminal



40VA~150VA : Max 6, Min 3.5
200VA~1kVA : Max 9, Min 4
1.5~2kVA : Max 15, Min 6

TRANSFORMER (경제형)

3822-AW Series WT Type

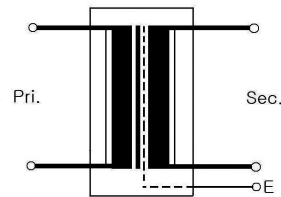
CE RoHS



단상 복권형으로 입력 AC 380V 출력 AC 220V로, 전압 인가시 LED가 동작하여 전원의 통전상태 유,무가 표시되며 전기중 **CE** 인증을 받은 제품으로 신뢰성과 안전성이 확보된 제품으로 경쟁력을 위하여 단일 탭(tap)으로 구성되어있는 경제형 트랜스포머 입니다.

This is of a 1P isolation transformer with AC 380V input and AC 220V output, has an LED working when voltage is applied to display whether power is energized or not, was **CE**-certified for all models, has secured reliability and safety, and is composed of a single tap for competitiveness to be a general transformer.

•Circuit Diagram



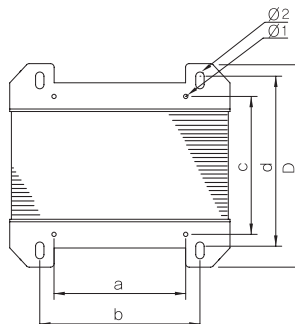
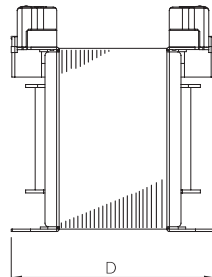
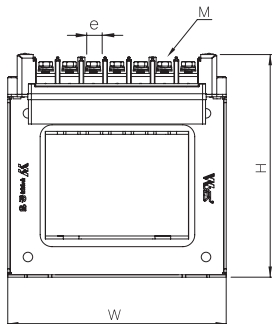
● Specifications

Insulation Class B

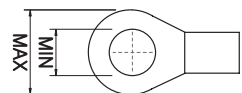
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)											WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M	
WY3822-40AW	WT	0-380	0-220-(E)	40	79	89	83	42	57	48.5	63	7	Ø3.6	5 x 12	M3.5	1.31
WY3822-60AW				60	79	89	88	42	57	53.5	68	7	Ø3.6	5 x 12	M3.5	1.65
WY3822-80AW				80	89	98	105	46	65	62	83	7	Ø3.6	5 x 12	M3.5	2.30
WY3822-100AW				100	98	106	105	54	72	61	88	7	Ø3.6	6 x 12	M3.5	2.59
WY3822-150AW				150	98	106	113	54	72	68	94	7	Ø3.6	6 x 12	M3.5	3.23
WY3822-200AW				200	112	114	110	58	76	65.5	88	10	Ø3.6	5 x 10	M4	3.60
WY3822-300AW				300	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
WY3822-500AW				500	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10
WY3822-750AW				750	160	162	146	96	114	92.5	125	10	Ø3.6	6 x 13	M4	10.70
WY3822-1KAW				1K	160	160	157	96	114	102.5	135	10	Ø3.6	6 x 14	M4	12.30
WY3822-1.5KAW				1.5K	185	188	151	110	134	95	123	16	Ø3.6	7 x 14	M6	16.50
WY3822-2KAW				2K	185	188	171	110	134	115	143	16	Ø3.6	7 x 13	M6	20.10

● Dimension

•WT Type



● Terminal



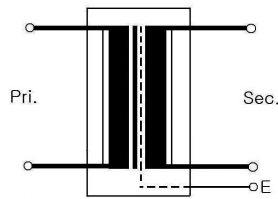
40VA~150VA : Max 6, Min 3.5
200VA~1kVA : Max 9, Min 4
1.5~2kVA : Max 15, Min 6



단상 복권형으로 입력 AC 440V 출력 AC 220V로, 전압 인가시 LED가 동작하여 전원의 통전상태 유,무가 표시되며 전기중 CE인증을 받은 제품으로 신뢰성과 안전성이 확보된 제품으로 경쟁력을 위하여 단일 탭(tap)으로 구성되어있는 경제형 트랜스포머 입니다.

This is of a 1P isolation transformer with AC 440V input and AC 220V output, has an LED working when voltage is applied to display whether power is energized or not, was CE-certified for all models, has secured reliability and safety, and is composed of a single tap for competitiveness to be an general transformer.

•Circuit Diagram



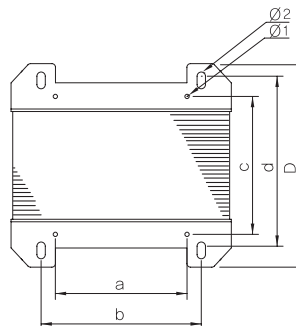
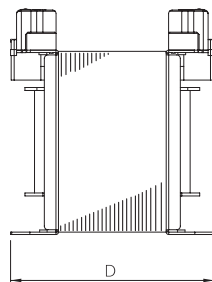
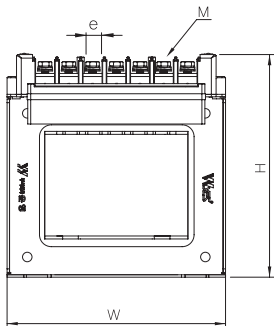
● Specifications

Insulation Class B

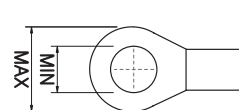
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)											WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M	
WY4422-40AW	WT	0-440	0-220-(E)	40	79	89	83	42	57	48.5	63	7	Ø3.6	5 x 12	M3.5	1.31
WY4422-60AW				60	79	89	88	42	57	53.5	68	7	Ø3.6	5 x 12	M3.5	1.65
WY4422-80AW				80	89	98	105	46	65	62	83	7	Ø3.6	5 x 12	M3.5	2.30
WY4422-100AW				100	98	106	105	54	72	61	88	7	Ø3.6	6 x 12	M3.5	2.59
WY4422-150AW				150	98	106	113	54	72	68	94	7	Ø3.6	6 x 12	M3.5	3.23
WY4422-200AW				200	112	114	110	58	76	65.5	88	10	Ø3.6	5 x 10	M4	3.60
WY4422-300AW				300	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
WY4422-500AW				500	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10
WY4422-750AW				750	160	162	146	96	114	92.5	125	10	Ø3.6	6 x 13	M4	10.70
WY4422-1KAW				1K	160	160	157	96	114	102.5	135	10	Ø3.6	6 x 14	M4	12.30
WY4422-1.5KAW				1.5K	185	188	151	110	134	95	123	16	Ø3.6	7 x 14	M6	16.50
WY4422-2KAW				2K	185	188	171	110	134	115	143	16	Ø3.6	7 x 13	M6	20.10

● Dimension

•WT Type



● Terminal

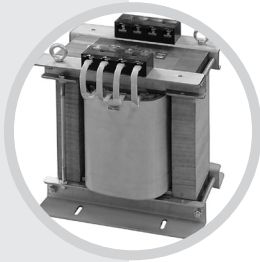
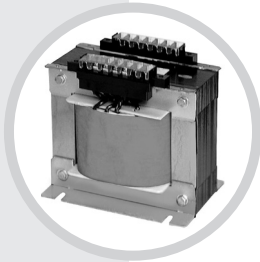


40VA~150VA : Max 6, Min 3.5
200VA~1kVA : Max 9, Min 4
1.5~2kVA : Max 15, Min 6

1Ø 복권형

1Ø Isolation Transformer

110V, 220V, 380V, 440V, 500V Line



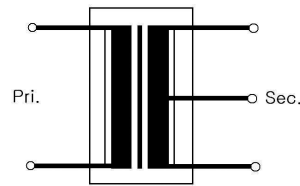
- WYPM Series
- WYSH Series
- WYTB – AP Series
- WYEW – AP Series
- WYEW – HP Series
- WYHP – AP Series
- WY21 – A Series
- WY21 – AO Series
- WY21 – AE Series
- WY21 – A2 Series
- WY11 – AF Series
- WY22 – AF Series
- WY41 – A Series
- WY42 – AW Series
- WY42 – AO Series
- WY42 – A2 Series
- WY42 – DE Series
- WY52 – AW Series



단상 복권형으로 입력전압은 AC110/220V 이고 출력측은 중간 Tap 방식이며 Printed - Circuit용 (P.C.B)으로 제작 되었으며 1,2차간 권선분리형 으로 1, 2차 절연이 확보되어 안전성 및 Noise에 영향이 없도록 제작 되었습니다.

This transformer are 110/220v input voltage as single phase isolation transformer and output winding is center tap type. Also, this transformer is operation inserted on printed circuit board (PCB) and safety is very high by galvanic isolation between primary and secondary winding so that there not be effect of noise.

•Circuit Diagram



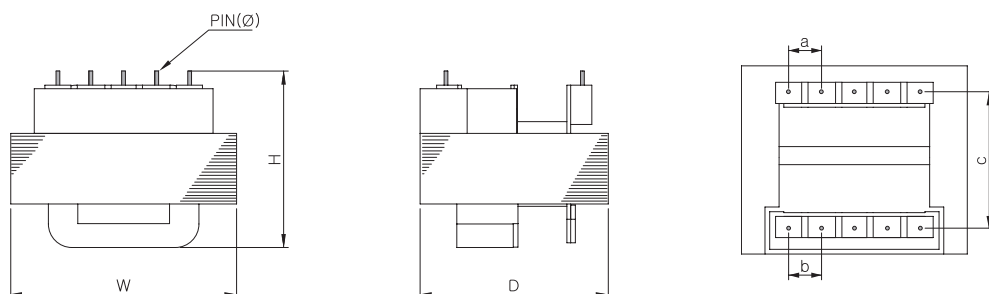
● Specifications

Insulation Class B

MODEL NO.	TYPE	SPECIFICATIONS		VA	mA	DIMENSIONS (mm)							WEIGHT (kg)
		PRI.(V)	SEC.(V)			W	H	D	a	b	c	PIN(Ø)	
WYPM-0608	WP	0-110-220	6-0-6	1	80	29	32	27	6	6	20	0.6	0.10
WYPM-0612				1.5	120	36	29	37	7.5	7.5	25	0.8	0.14
WYPM-0633				4	330	42	47	34	6	6	44	1.0	0.28
WYPM-0906			9-0-9	1	60	29	32	27	6	6	20	0.6	0.10
WYPM-0908				1.5	80	36	29	37	7.5	7.5	25	0.8	0.14
WYPM-0922				4	220	42	47	34	6	6	44	1.0	0.28
WYPM-1204			12-0-12	1	40	29	32	27	6	6	20	0.6	0.10
WYPM-1206				1.5	60	36	29	37	7.5	7.5	25	0.8	0.14
WYPM-1216				4	160	42	47	34	6	6	44	1.0	0.28
WYPM-1503			15-0-15	1	30	29	32	27	6	6	20	0.6	0.10
WYPM-1505				1.5	50	36	29	37	7.5	7.5	25	0.8	0.14
WYPM-1513				4	130	42	47	34	6	6	44	1.0	0.28
WYPM-1802			18-0-18	1	20	29	32	27	6	6	20	0.6	0.10
WYPM-1804				1.5	40	36	29	37	7.5	7.5	25	0.8	0.14
WYPM-1811				4	110	42	47	34	6	6	44	1.0	0.28

● Dimension

• WP Type

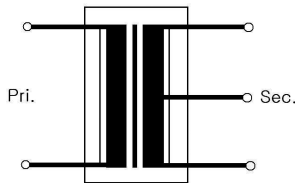


단상 복권형 입력전압은 AC 110V/220V 이고 출력측은 전압, 전류별로 세분화되어 납땜 형식으로 제작되어 있으며 6.3V부터 20V까지 사용 할 수 있도록 되어 있습니다.

This transformer are 110/220v input voltage as single phase isolation transformer and output is to be classified by voltage and current can use to from 6.3V to 20V in soldering terminal.



• Circuit Diagram



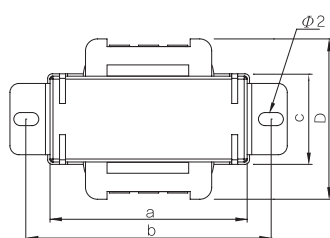
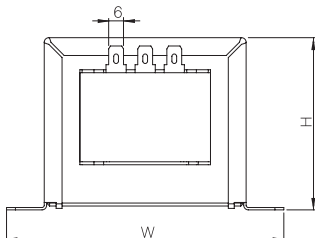
Specifications

Insulation Class B

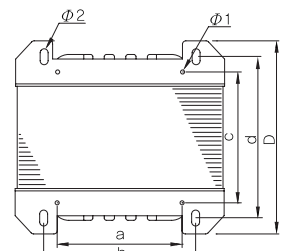
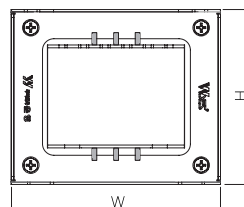
MODEL NO.	TYPE	SPECIFICATIONS		VA	A	DIMENSIONS (mm)										WEIGHT (kg)
		PRI.(V)	SEC.(V)			W	H	D	a	b	c	d	(a.c)Ø1	Ø2		
• 6.3V SERIES																
WYSH-6305	WB	0-110-220	0-5-6.3	3	0.5	62	36	35	43	52	16	-	-	3.5 x 5	1.31	
WYSH-631				5	0.8	70	44	38	50	60	19	-	-	4 x 6	1.65	
WYSH-632				10	1.6	85	52	44	59	72	23	-	-	4.5 x 7	2.30	
WYSH-633				25	4	95	60	55	69	81	31	-	-	5 x 7	2.59	
WYSH-635				40	6.3	106	69	69	78	91	33	-	-	4.5 x 6.5	3.23	
• 15V SERIES (6V x 2)																
WYSH-1502	WB	0-110-220	0-6-9-12-15 (6V x 2)	3	0.2	62	36	35	43	52	16	-	-	3.5 x 5	4.97	
WYSH-1503				5	0.3	70	44	38	50	60	19	-	-	4 x 6	7.10	
WYSH-1506				10	0.66	85	52	44	59	72	23	-	-	4.5 x 7	10.70	
WYSH-1516				25	1.66	95	60	55	69	81	31	-	-	5 x 7	12.30	
WYSH-1525				40	2.66	106	69	69	78	91	33	-	-	4.5 x 6.5	12.30	
WYSH-155	WO			80	5.3	88	78	103	46	64	58	80	M4	5 x 12	4.97	
WYSH-1566				100	6.66	99	95	105	46	64	63	85	M4	5 x 12	7.10	
• 20V SERIES (10V x 2)																
WYSH-2002	WB	0-110-220	0-10-16-18-20 (10V x 2)	3	0.15	62	36	35	43	52	16	-	-	3.5 x 5	1.31	
WYSH-2003				5	0.25	70	44	38	50	60	19	-	-	4 x 6	1.65	
WYSH-2005				10	0.5	85	52	44	59	72	23	-	-	4.5 x 7	2.30	
WYSH-201				25	1.25	95	60	55	69	81	31	-	-	5 x 7	2.59	
WYSH-202				40	2	106	69	69	78	91	33	-	-	4.5 x 6.5	3.23	

Dimension

• WB Type



• WO Type



트랜스포머
REACTOR
리액터
무정전압 레이어
SSR
전력조정기
TPR
스위칭 파워
SMPs
노이즈 필터
N/F
하모닉 필터
H/F
서지보호기
SPD
보호계전기
RELAY
누전경보기
ELD=GF
영상변류기
ZCT
판넬메타
METER
계기용변성기
CT=VT
선풍팬
SHUNT=FAN

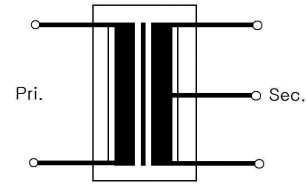


WB Type



WO Type

• Circuit Diagram



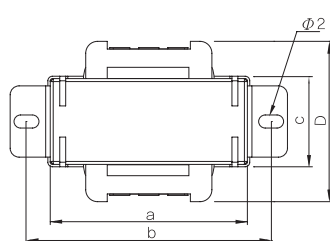
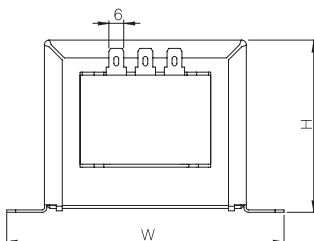
Specifications

Insulation Class B

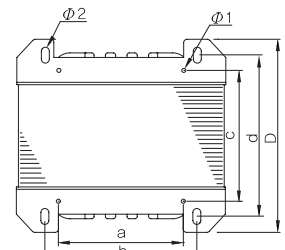
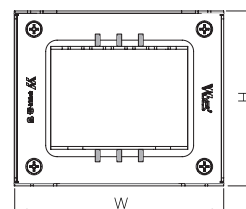
MODEL NO.	TYPE	SPECIFICATIONS		VA	A	DIMENSIONS (mm)										WEIGHT (kg)
		PRI.(V)	SEC.(V)			W	H	D	a	b	c	d	(a.c)Ø1	Ø2		
• 26V SERIES (12V x 2)																
WYSH-2601	WB	0-110-220	0-12-22-24-26 (12V x 2)	3	0.1	62	36	35	43	52	16	-	-	3.5 x 5	0.185	
WYSH-2602				5	0.19	70	44	38	50	60	19	-	-	4 x 6	0.28	
WYSH-2603				10	0.3	85	52	44	59	72	23	-	-	4.5 x 7	0.41	
WYSH-261				25	1	95	60	55	69	81	31	-	-	5 x 7	0.78	
WYSH-262				40	1.53	106	69	69	78	91	33	-	-	4.5 x 6.5	1.30	
WYSH-263	WO			80	3	88	78	103	46	64	58	80	Ø3.6	5 x 12	1.98	
• 30V SERIES (15V x 2)																
WYSH-3001	WB	0-110-220	0-15-24-27-30 (15V x 2)	3	0.1	62	36	35	43	52	16	-	-	3.5 x 5	0.185	
WYSH-3002				5	0.16	70	44	38	50	60	19	-	-	4 x 6	0.28	
WYSH-3003				10	0.3	85	52	44	59	72	23	-	-	4.5 x 7	0.41	
WYSH-3005				25	0.83	95	60	55	69	81	31	-	-	5 x 7	0.78	
WYSH-301				40	1.33	106	69	69	78	91	33	-	-	4.5 x 6.5	1.30	
WYSH-302	WO			80	2.66	88	78	103	46	64	58	80	Ø3.6	5 x 12	1.98	
WYSH-303				100	3.33	99	85	105	46	64	63	85	Ø3.6	5 x 12	2.78	
WYSH-305				150	5	99	86	116	54	72	70	94	Ø3.6	5 x 12	3.23	
• 38V SERIES (19V x 2)																
WYSH-3801	WB	0-110-220	0-19-32-35-38 (19V x 2)	3	0.1	62	36	35	43	52	16	-	-	3.5 x 5	0.185	
WYSH-3802				5	0.13	70	44	38	50	60	19	-	-	4 x 6	0.28	
WYSH-3803				10	0.3	85	52	44	59	72	23	-	-	4.5 x 7	0.41	
WYSH-3805				25	0.65	95	60	55	69	81	31	-	-	5 x 7	0.78	
WYSH-381				40	1.05	106	69	69	78	91	33	-	-	4.5 x 6.5	1.30	
• 50V SERIES (25V x 2)																
WYSH-5001	WB	0-110-220	0-25-40-45-50 (25V x 2)	5	0.1	70	44	38	50	60	19	-	-	4 x 6	0.28	
WYSH-5002				10	0.2	85	52	44	59	72	23	-	-	4.5 x 7	0.41	
WYSH-5005				25	0.5	95	60	55	69	81	31	-	-	5 x 7	0.78	
WYSH-5008				40	0.8	106	69	69	78	91	33	-	-	4.5 x 6.5	1.30	
WYSH-501	WO			80	1.6	88	78	103	46	64	58	80	Ø3.6	5 x 12	1.98	
WYSH-502				100	2	99	85	105	46	64	63	85	Ø3.6	5 x 12	2.78	

Dimension

• WB Type



• WO Type

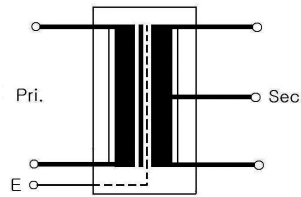




단상 복권형으로 입력 전압 AC 110V/220V 출력은 전압 전류별로 규격화 하여 소비자의 선택이 용이하게 되었으며, AC입력전원 인가시 LED가 동작되어 안전성은 물론이고 15V 시리즈부터~26V 시리즈까지 전규격 **CE** 인증을 획득하여 신뢰성까지 확보한 제품입니다.

Input voltage of this transformer are 110/220 V as single phase isolation transformer and output is standardized by voltage and current. also, turn on LED lamp at apply input voltage for safe handling and all models acquire **CE** standard from 15V series to 26V series for define to reliability.

• Circuit Diagram



● Specifications

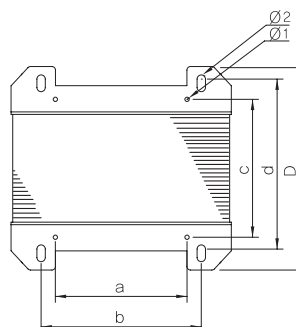
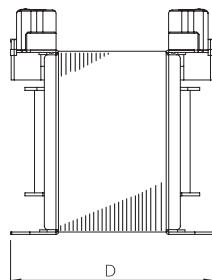
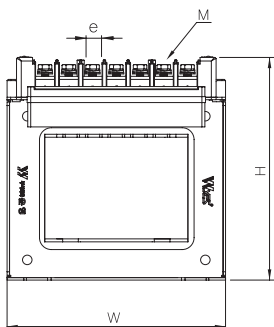
Insulation Class B

MODEL NO.	TYPE	SPECIFICATIONS		VA	A	DIMENSIONS (mm)											WEIGHT (kg)
		PRI.(V)	SEC.(V)			W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M	
• 15V SERIES																	
WYTB-1540AP	WT	0-110-200-220-(E)	0-6-9-12-15	40	2.5	79	89	83	42	57	48.5	63	7	Ø3.6	5 x 12	M3.5	1.31
WYTB-1560AP				60	4	79	89	88	42	57	53.5	68	7	Ø3.6	5 x 12	M3.5	1.65
WYTB-1580AP				80	5	89	98	105	46	65	62	83	7	Ø3.6	5 x 12	M3.5	2.30
WYTB-15100AP				100	7	98	106	105	54	72	61	88	7	Ø3.6	6 x 12	M3.5	2.59
WYTB-15150AP				150	10	98	106	113	54	72	68	94	7	Ø3.6	6 x 12	M3.5	3.23
WYTB-15200AP				200	13	112	114	110	58	76	65.5	88	10	Ø3.6	5 x 10	M4	3.60
WYTB-15300AP				300	20	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
• 26V SERIES																	
WYTB-2640AP	WT	0-110-200-220-(E)	0-12-18-22-24-26	40	1.5	79	89	83	42	57	48.5	63	7	Ø3.6	5 x 12	M3.5	1.31
WYTB-2660AP				60	2	79	89	88	42	57	53.5	68	7	Ø3.6	5 x 12	M3.5	1.65
WYTB-2680AP				80	3	89	98	105	46	65	62	83	7	Ø3.6	5 x 12	M3.5	2.30
WYTB-26100AP				100	4	98	106	105	54	72	61	88	7	Ø3.6	6 x 12	M3.5	2.59
WYTB-26150AP				150	6	98	106	113	54	72	68	94	7	Ø3.6	6 x 12	M3.5	3.23
WYTB-26200AP				200	8	112	114	110	58	76	65.5	88	10	Ø3.6	5 x 10	M4	3.60
WYTB-26300AP				300	11	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
WYTB-26500AP			0-12-22-24-26	500	20	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10
WYTB-26750AP				750	30	160	162	146	96	114	92.5	125	10	Ø3.6	6 x 13	M4	10.70
WYTB-261KAP				1K	40	160	160	157	96	114	102.5	135	10	Ø3.6	6 x 14	M4	12.30
WYTB-261.5KAP				1.5K	60	184	188.5	150	110	133.8	95.2	122	16	Ø3.6	7 x 14	M6	17.00
WYTB-262KAP				2K	80	184	188.5	170	110	133.8	115.2	137	16	Ø3.6	7 x 13	M6	20.10

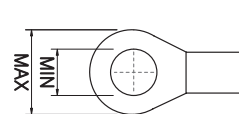
※ 정격용량 : 최대전압(TAP)에서의 용량임. ※ Rated capacity : Capacity at the maximum voltage(TAP).

● Dimension

• WT Type



● Terminal

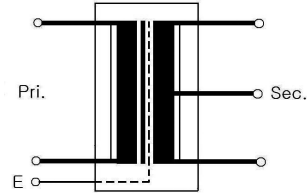


40VA~100VA : Max 6, Min 3.5
150VA~1kVA : Max 9, Min 4
1.5~2kVA : Max 15, Min 6

트랜스포머
REACTOR
리액터
무정전압릴레이
SSR
전력조정기
TPR
스위칭파워
SMPs
노이즈필터
N/F
하모닉필터
H/F
서지보호기
SPD
보호계전기
RELAY
누전경보기
ELD=GFR
영상변류기
ZCT
판넬메타
METER
계기용변성기
CT=VT
선풍팬
SHUNT=FAN



• Circuit Diagram



Specifications

Insulation Class B

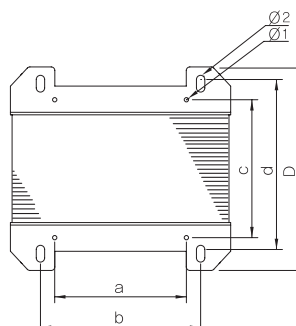
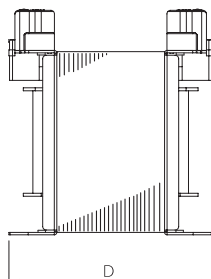
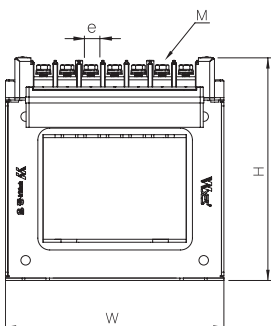
MODEL NO.	TYPE	SPECIFICATIONS		VA	A	DIMENSIONS (mm)											WEIGHT (kg)
		PRI.(V)	SEC.(V)			W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M	
• 32V SERIES																	
WYTB-3240AP	WT	0-110-200 -220-(E)	0-26-28 -30-32	40	1.2	79	89	83	42	57	48.5	63	7	Ø3.6	5 x 12	M3.5	1.31
WYTB-3260AP				60	1.8	79	89	88	42	57	53.5	68	7	Ø3.6	5 x 12	M3.5	1.65
WYTB-3280AP				80	2.5	89	98	105	46	65	62	83	7	Ø3.6	5 x 12	M3.5	2.30
WYTB-32100AP				100	3	98	106	105	54	72	61	88	7	Ø3.6	6 x 12	M3.5	2.59
WYTB-32150AP				150	6	112	106	105	58	76	60	82	10	Ø3.6	5 x 10	M4	3.45
WYTB-32200AP				200	6	112	114	110	58	76	65.5	88	10	Ø3.6	5 x 10	M4	3.60
WYTB-32300AP				300	9	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
WYTB-32500AP				500	15	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10
WYTB-32750AP				750	23	160	162	146	96	114	92.5	125	10	Ø3.6	6 x 13	M4	10.70
WYTB-321KAP				1K	30	160	160	157	96	114	102.5	135	10	Ø3.6	6 x 14	M4	12.30
WYTB-321.5KAP				1.5K	60	184	188.5	150	110	133.8	95.2	122	16	Ø3.6	7 x 14	M6	17.00
WYTB-322KAP				2K	80	184	188.5	170	110	133.8	115.2	137	16	Ø3.6	7 x 19	M6	20.10

※ 정격용량 : 최대전압(TAP)에서의 용량임.

※ Rated capacity : Capacity at the maximum voltage(TAP).

Dimension

• WT Type



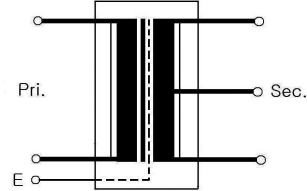
Terminal



40VA~100VA : Max 6, Min 3.5
150VA~1kVA : Max 9, Min 4
1.5~2kVA : Max 15, Min 6



• Circuit Diagram



Specifications

Insulation Class B

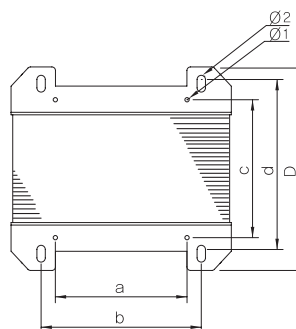
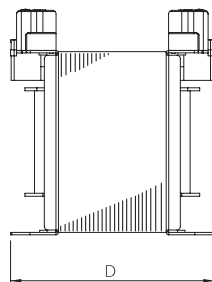
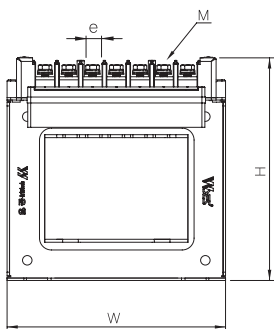
MODEL NO.	TYPE	SPECIFICATIONS		VA	A	DIMENSIONS (mm)											WEIGHT (kg)
		PRI.(V)	SEC.(V)			W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M	
• 36V SERIES																	
WYTB-3640AP	WT	0-110-200 -220-(E)	0-18-24-28 -32-36	40	1.1	79	89	83	42	57	48.5	63	7	Ø3.6	5 x 12	M3.5	1.31
WYTB-3660AP				60	1.6	79	89	88	42	57	53.5	68	7	Ø3.6	5 x 12	M3.5	1.65
WYTB-3680AP				80	2.2	89	98	105	46	65	62	83	7	Ø3.6	5 x 12	M3.5	2.30
WYTB-36100AP				100	3	98	106	105	54	72	61	88	7	Ø3.6	6 x 12	M3.5	2.59
WYTB-36150AP				150	6	112	106	105	58	76	60	82	10	Ø3.6	5 x 10	M4	3.45
WYTB-36200AP				200	5.5	112	114	110	58	76	65.5	88	10	Ø3.6	5 x 10	M4	3.60
WYTB-36300AP				300	8.3	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
WYTB-36500AP				500	14	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10
WYTB-36750AP				750	20	160	162	146	96	114	92.5	125	10	Ø3.6	6 x 13	M4	10.70
WYTB-361KAP				1K	27	160	160	157	96	114	102.5	135	10	Ø3.6	6 x 14	M4	12.30
WYTB-361.5KAP				1.5K	60	184	188.5	150	110	133.8	95.2	122	16	Ø3.6	7 x 14	M6	17.00
WYTB-362KAP				2K	80	184	188.5	170	110	133.8	115.2	137	16	Ø3.6	7 x 19	M6	20.10
• 50V SERIES																	
WYTB-5040AP	WT	0-110-200 -220-(E)	0-25-40 -45-50	40	0.8	79	89	83	42	57	48.5	63	7	Ø3.6	5 x 12	M3.5	1.31
WYTB-5060AP				60	1.2	79	89	88	42	57	53.5	68	7	Ø3.6	5 x 12	M3.5	1.65
WYTB-5080AP				80	1.6	89	98	105	46	65	62	83	7	Ø3.6	5 x 12	M3.5	2.30
WYTB-50100AP				100	2	98	106	105	54	72	61	88	7	Ø3.6	6 x 12	M3.5	2.59
WYTB-50150AP				150	6	112	106	105	58	76	60	82	10	Ø3.6	5 x 10	M4	3.45
WYTB-50200AP				200	4	112	114	110	58	76	65.5	88	10	Ø3.6	5 x 10	M4	3.60
WYTB-50300AP				300	6	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
WYTB-50500AP				500	10	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10
WYTB-50750AP				750	15	160	162	146	96	114	92.5	125	10	Ø3.6	6 x 13	M4	10.70
WYTB-501KAP				1K	20	160	160	157	96	114	102.5	135	10	Ø3.6	6 x 14	M4	12.30

※ 정격용량 : 최대전압(TAP)에서의 용량임.

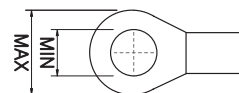
※ Rated capacity : Capacity at the maximum voltage(TAP).

Dimension

• WT Type



Terminal



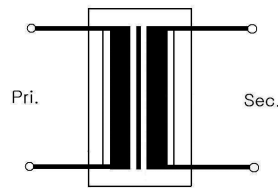
40VA~100VA : Max 6, Min 3.5
150VA~1kVA : Max 9, Min 4
1.5~2kVA : Max 15, Min 6



단상 복권형으로 입력은 AC220, 380/440V이며 출력은 AC24V로 Lead-Wire 및 권선보호형 카바 사용으로 분진이 많이 발생하는 곳이나 습기가 많은 곳에서 사용하기 용이 하도록 설계된 제품입니다.

Input voltage of single phase is AC 220, 380/440V and output is AC24V The product has been designed to use easily in the place of dust and humidity with lead wire and cover to protect winding.

•Circuit Diagram



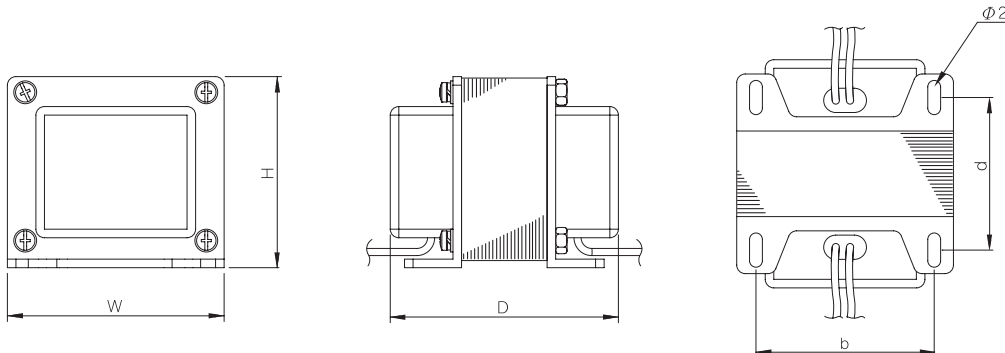
● Specifications

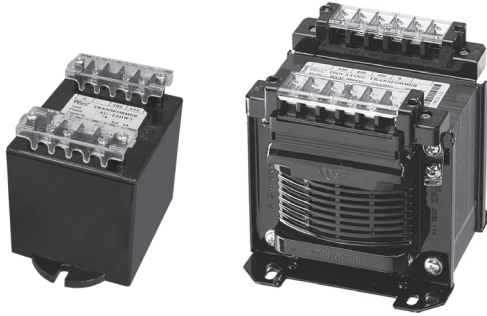
Insulation Class B

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)						SUITABLE WIRE		WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	b	d	Ø2	PRI.	SEC.	
• 24V SERIES													
WYEW-40AP	WE	O-220 흑(BLACK) 적(RED)	O-24 흑(BLACK) 적(RED)	40	78	68	81	64	54	4 x 11	0.75mm ²	0.75mm ²	1.30
WYEW-60AP				60	78	68	86	64	59	5 x 14		0.75mm ²	1.46
WYEW-80AP				80	89	75	101	76.5	67.5	5 x 14		0.75mm ²	1.95
WYEW-100AP				100	99	85	103	79	70	5 x 15		0.75mm ²	2.27
WYEW-150AP				150	99	85	113	79	80	5 x 15		1.25mm ²	2.84
WYEW-200AP				200	108	90	110	90	80	5 x 12		1.25mm ²	3.45
WYEW-300AP				300	118	99	115	102	78	5 x 12		2.00mm ²	4.78
WYEW-500AP				500	137	115	119	116	81	5 x 12		3.50mm ²	6.89
WYEW-HP40AP		O-380,440 흑(BLACK) 갈(BROWN) 적(RED)	O-24 흑(BLACK) 백(WHITE)	40	78	68	81	64	54	4 x 11	0.75mm ²	0.75mm ²	1.30
WYEW-HP60AP				60	78	68	86	64	59	5 x 14		0.75mm ²	1.46
WYEW-HP80AP				80	89	75	101	76.5	67.5	5 x 14		0.75mm ²	1.95
WYEW-HP100AP				100	99	85	103	79	70	5 x 15		0.75mm ²	2.27
WYEW-HP150AP				150	99	85	113	79	80	5 x 15		1.25mm ²	2.84
WYEW-HP200AP				200	108	90	110	90	80	5 x 12		1.25mm ²	3.45
WYEW-HP300AP				300	118	99	115	102	78	5 x 12		2.00mm ²	4.78
WYEW-HP500AP				500	137	115	119	116	81	5 x 12		3.50mm ²	6.89

● Dimension

• WP Type

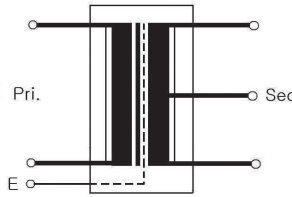




단상 복권형으로 입력은 AC220, 380, 440V이며 출력은 AC12V~26V 로 출력 전압을 다양화 하였으며, AC 입력전압 인가시 전원표시 LED가 부착 되어있어 소비자의 안전성을 한층 높인 제품입니다.

Input voltage of single phase is AC 220V, 380V and 440V and output is AC 12V to 26V. Existing product manufactured by Poly carbonate and bolt has been manufactured by terminal block with LED to increase safety of customer and efficiency of wiring.

• Circuit Diagram



● Specifications

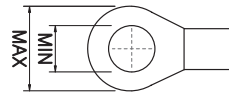
Insulation Class B

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)											WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M	
• 12-26V SERIES																
WYHP-25AP	WMT	0-220-380-440	E-0-12-24	25	94	77	61	72	80	37	-	-	-	5 x 7.5	M3	0.75
WYHP-50AP	WT	0-220-380-440-(E)	0-12-18-22-24-26	50	79	89	88	42	57	53.5	68	7	Ø3.6	5 x 12	M3.5	1.65
WYHP-100AP				100	89	98	105	46	65	62	83	7	Ø3.6	5 x 12	M3.5	2.59
WYHP-150AP				150	112	106	105	58	76	60	82	10	Ø3.6	5 x 10	M4	3.45
WYHP-200AP				200	112	114	110	58	76	65.5	88	10	Ø3.6	5 x 10	M4	3.60
WYHP-300AP				300	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
WYHP-500AP				500	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10
WYHP-1KAP				1K	160	160	157	96	114	102.5	135	10	Ø3.6	6 x 14	M4	12.30

※ 정격용량 : 최대전압(TAP)에서의 용량임.

※ Rated capacity : Capacity at the maximum voltage(TAP).

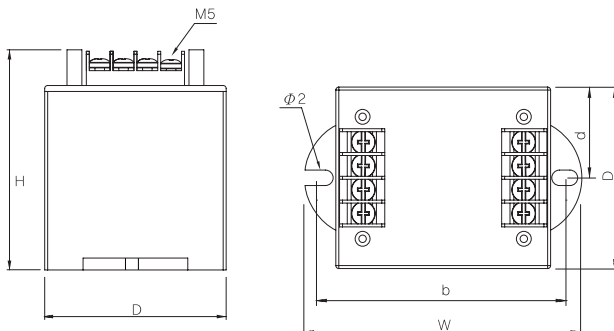
● Terminal



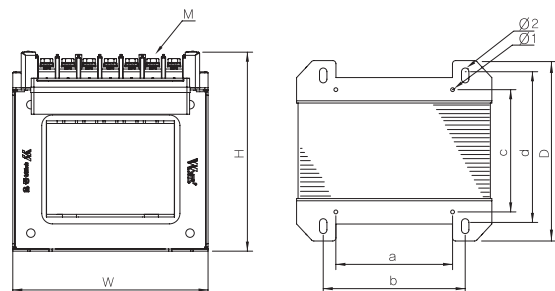
50VA~100VA : Max 6, Min 3.5
150VA~1kVA : Max 9, Min 4

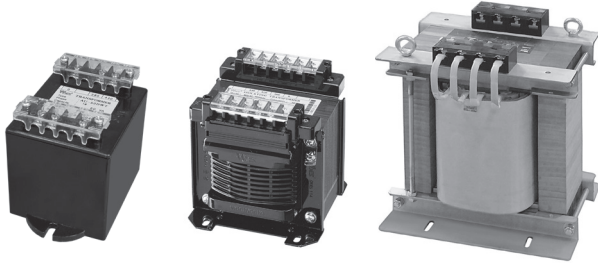
● Dimension

• WMT Type



• WT Type



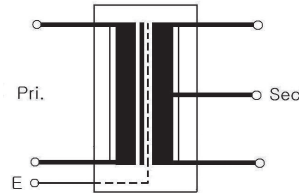


단상 복권형으로 입력은 AC220V 이며 출력은 AC 110V 로 일반 전원 공급용부터 대전력 공급 전원 까지 가능한 제품이며 AC 입력전압 인가시 전원표시 LED가 동작하며 전 규격 **CE**를 인증 받아 신뢰성과 안전성을 동시에 확보한 제품 입니다.

Input voltage of single phase is AC 220V and output is AC 110V. Product is available covering general electric source to large electric power. All models of series have been acquired of

CE Existing product manufactured by bolt has been manufactured by terminal block with LED type to increase safety of customer and efficiency of wiring.

• Circuit Diagram



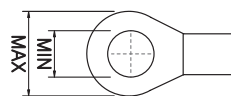
● Specifications

·20VA~2KVA **Insulation Class B**
·3KVA~50KVA **Insulation Class H**

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)													WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M			
WY21-20AT	WMT	0-200-220-240	0-100-110	20	94	77	61	72	80	37	-	-	-	5 x 7.5	M3	0.75		
WY21-40A	WT	0-200-220-240-(E)	0-100-110-120	40	79	89	83	42	57	48.5	63	7	Ø3.6	5 x 12	M3.5	1.31		
WY21-60A				60	79	89	88	42	57	53.5	68	7	Ø3.6	5 x 12	M3.5	1.65		
WY21-80A				80	89	98	105	46	65	62	83	7	Ø3.6	5 x 12	M3.5	2.30		
WY21-100A				100	98	106	105	54	72	61	88	7	Ø3.6	6 x 12	M3.5	2.59		
WY21-150A				150	98	106	113	54	72	68	94	7	Ø3.6	6 x 12	M3.5	3.23		
WY21-200A				200	112	114	110	58	76	65.5	88	10	Ø3.6	5 x 10	M4	3.60		
WY21-300A				300	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97		
WY21-500A				500	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10		
WY21-750A				750	160	162	146	96	114	92.5	125	10	Ø3.6	6 x 13	M4	10.70		
WY21-1KA				1K	160	160	157	96	114	102.5	135	10	Ø4.3	6 x 14	M4	12.30		
WY21-1.5KA				1.5K	184	188.5	150	110	133.8	95.2	122	16	Ø4.3	7 x 14	M6	16.50		
WY21-2KA				2K	184	188.5	170	110	133.8	115.2	137	16	Ø4.3	7 x 19	M6	20.10		
WY21-3KA	WT	0-200-220-240-(E)	0-100-110-120	3K	219	226	170	-	120	-	135	16	-	7 x 15	M6	26.70		
WY21-5KA				5K	245	240	192	-	180	-	165	16	-	9 x 19	M6	40.20		
WY21-7.5KA				7.5K	270	270	200	-	180	-	170	16	-	9 x 19	M6	52.00		
WY21-10KA				10K	310	308	212	-	219	-	164	16	-	11 x 30	M6	68.00		
WY21-15KA				15K	310	308	232	-	219	-	184	16	-	11 x 30	M6	94.00		
WY21-20KA				20K	360	377.4	269.6	-	270	-	210.6	16	-	11 x 38	M6	112.30		
WY21-30KA			0-110	30K	380	453.3	301.6	-	200	-	226.6	16	-	11 x 41	M6	162.60		
WY21-40KA				40K	480	461	317.6	-	240	-	247.6	20	-	13 x 40	M8	205.00		
WY21-50KA				50K	500	482.5	317.6	-	260	-	247.6	20	-	13 x 40	M8	221.00		

※ 3KVA 이상 "I" Bolt 부착 (Attach an "I" bolt for 3KVA or larger) ※ 정격용량 : 최대전압(TAP)에서의 용량임.
※ Rated capacity : Capacity at the maximum voltage(TAP).

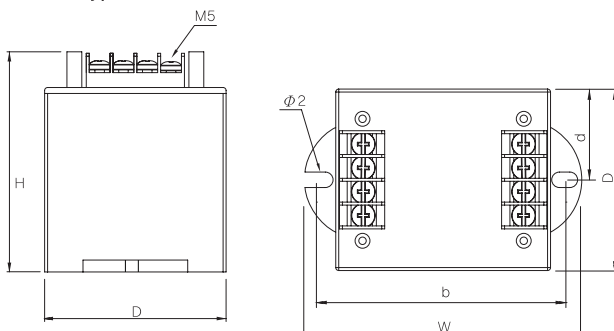
● Terminal



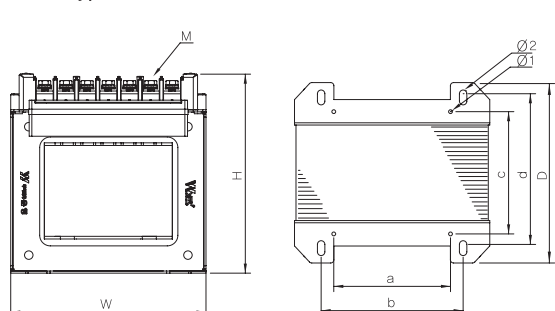
40VA~50VA : Max 6, Min 3.5
200VA~1kVA : Max 9, Min 4
1.5~30kVA : Max 15, Min 6
40~30kVA : Max 19, Min 8

● Dimension

• WMT Type



• WT Type

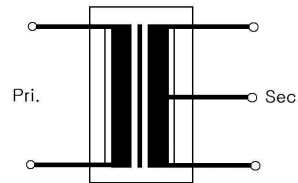


단상 복권형 입력전압은 AC200~240V이고 출력측은 전압, 전류별로 세분화되어 납땜 형식으로 제작되어 있으며 100V부터 110V까지 사용 할 수 있도록 되어 있습니다.

This transformer are 200~240V input voltage as single phase isolation transformer and output is to be classified by voltage and current can use to from 100V to 110V in soldering terminal.



•Circuit Diagram



Specifications

Insulation Class B

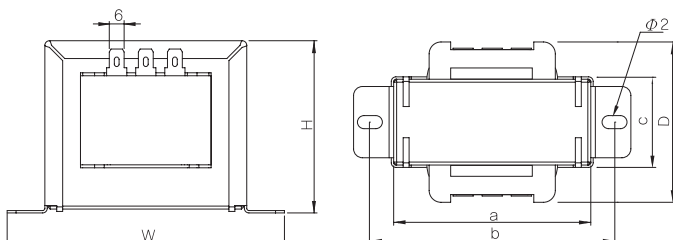
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	(a.c)Ø1	Ø2	
WY21-10AO	WB	0-200-220-240	0-100-110	10	85	52	44	59	72	23	-	-	4.5 x 7	0.45
WY21-15AO				15	85	52	52	59	75	27	-	-	4.5 x 7	0.60
WY21-25AO				25	95	60	55	69	81	31	-	-	4.5 x 7	0.75
WY21-40AO	WO	0-200-220-240	0-100-110	40	78	68	83	42	57	46	60	M4	5 x 12	1.34
WY21-60AO				60	78	68	88	42	57	48	68	M4	5 x 12	1.49
WY21-80AO				80	88	78	103	46	64	58	80	M4	5 x 12	1.98
WY21-100AO				100	99	85	105	46	64	63	96	M4	5 x 12	2.58
WY21-150AO				150	99	86	116	116	72	70	94	M4	6 x 12	3.23

※ 정격용량 : 최대전압(TAP)에서의 용량임.

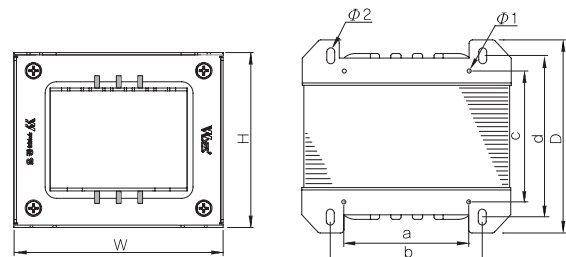
※ Rated capacity : Capacity at the maximum voltage(TAP).

Dimension

• WB Type



• WO Type

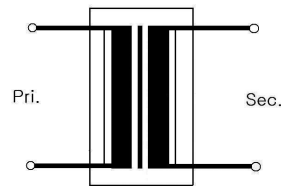


단상 복권형으로 입력은 AC 220V 이며 출력은 AC 110V로 Lead-Wire로 인출하였으며 권선 보호 덮개를 사용하여 분진, 습기 등 진동이 심한 곳에 사용하도록 제작 되었습니다.

Input voltage of single phase is AC 220V and output is AC 110V. It has been withdrawn by lead wire manufactured to be used at the place of server dust and humidity and vibration etc. By use of the cover of winding protector.



• Circuit Diagram



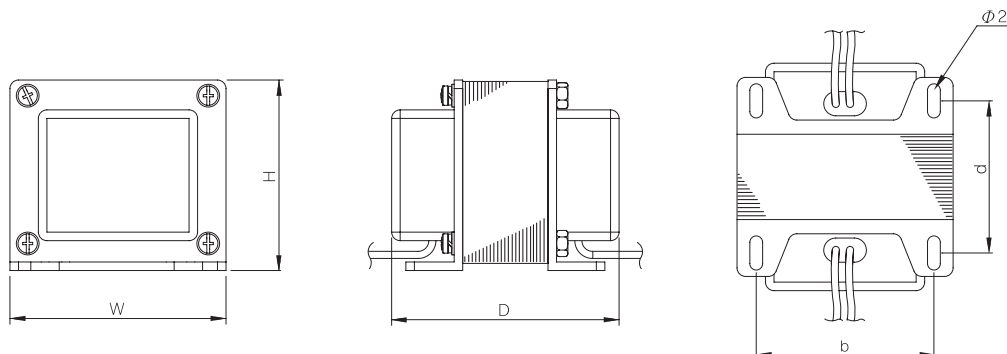
● Specifications

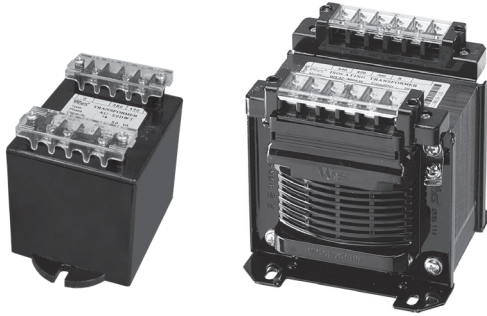
Insulation Class B

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)						SUITABLE WIRE		WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	b	d	Ø2	PRI.	SEC.	
WY21-40AE	WE	O-220 청(BLUE)	O-24 흑(BLACK) 적(REL)	40	78	68	81	64	54	4 x 11	0.75mm ²	0.75mm ²	1.30
WY21-60AE				60	78	68	86	64	59	5 x 14			1.46
WY21-80AE				80	89	75	101	76.5	67.5	5 x 14			1.95
WY21-100AE				100	99	85	103	79	70	5 x 15			2.27
WY21-150AE				150	99	85	113	79	80	5 x 15			2.84
WY21-200AE				200	108	90	110	90	80	5 x 12			3.45
WY21-300AE				300	118	99	115	102	78	5 x 12			4.78
WY21-500AE				500	137	115	119	116	81	5 x 12			6.89

● Dimension

• WP Type

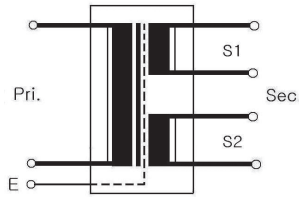




단상 복권형으로 입력은 AC220V 이고 출력은 AC 110V/24V 로 분리하여 한곳에서 2개의 전원이 필요한 곳에서 사용이 용이하며 AC 입력전원 인가시 전원 표시 LED가 동작하여 소비자의 안전성을 고려한 제품입니다.

This transformer inputs is ac 110/220V by single phase isolation transformer. output voltage is two way by AC110V and 24V when 2 power need in place use is easy. it is all indication LED lamp As product that consider consumer's stability being turn on at apply AC input.

• Circuit Diagram



● Specifications

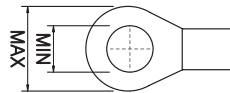
Insulation Class B

MODEL NO.	TYPE	SPECIFICATIONS		VA	S2(A)	DIMENSIONS (mm)												WEIGHT (kg)
		PRI.(V)	SEC.(V)			W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M		
WY21-20A2T	WMT	0-200-220-240	S1 0-110 S2 0-24	20	0.3	72	60	36	-	60	-	18	-	Ø4.5	4.5 x 8	-	0.75	
WY21-60A2	WT	0-200-220-240-(E)	S1 0-100-110 S2 0-12-24	60	0.5	79	89	88	42	57	53.5	68	7	Ø3.6	5 x 12	M3.5	1.65	
WY21-100A2				100	1	98	106	105	54	72	61	88	7	Ø3.6	6 x 12	M3.5	2.59	
WY21-150A2				150	1.3	98	106	113	54	72	68	94	7	Ø3.6	6 x 12	M3.5	3.23	
WY21-200A2				200	1.5	112	114	110	58	76	65.5	88	10	Ø3.6	5 x 10	M4	3.60	
WY21-300A2				300	2	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97	
WY21-500A2				500	3	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10	
WY21-1KA2				1K	5	160	160	157	96	114	100.5	135	10	Ø4.3	6 x 13	M4	12.30	

※ 정격용량 : 최대전압(TAP)에서의 용량임.

※ Rated capacity : Capacity at the maximum voltage(TAP).

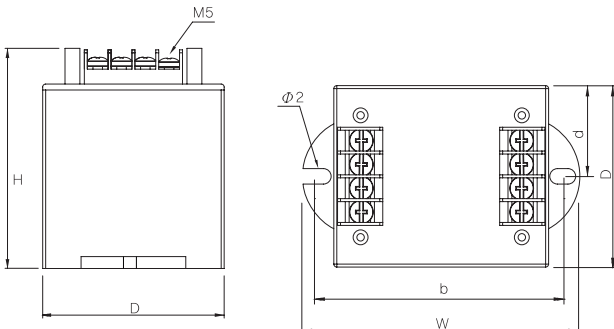
● Terminal



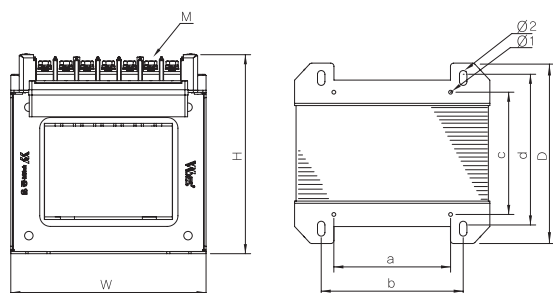
60VA~150VA : Max 6, Min 3.5
200VA~1kVA : Max 9, Min 4

● Dimension

• WMT Type



• WT Type

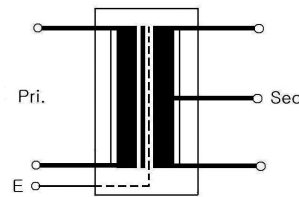




단상 복권형으로 입력과 출력이 AC110V 1:1형 제품으로 Line Noise를 Filtering하여 안정적으로 출력 전압을 사용할 수 있는 절연형(Isolation)으로 제작 되었으며 AC 입력 전압 인가시 전원표시 LED가 동작하여 안전성과 **CE** 획득으로 신뢰성도 확보한 제품 입니다.

Input and output voltage of single phase is AC 110V. It is a product of 1:1 winding and manufactured with isolation to use stable output voltage as line noise is filtered. Also it is produced by terminal block with LED type and all models have been acquired of **CE** to meet customer and demand.

• Circuit Diagram



● Specifications

Insulation Class B

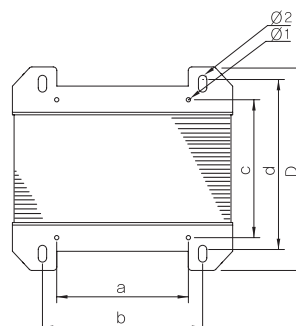
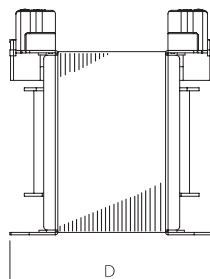
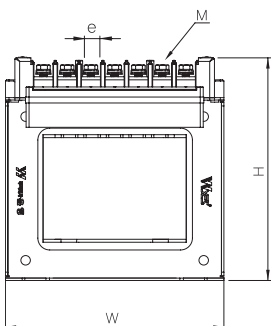
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)											WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M	
• 110V Line → 110V Line Isolation Series																
WY11-100AF	WT	0-90-100-110-(E)	0-100-110-120	100	98	106	105	54	72	61	88	7	Ø3.6	6 x 12	M3.5	2.59
WY11-200AF				200	112	114	110	58	76	65.5	88	10	Ø3.6	5 x 10	M4	3.60
WY11-300AF				300	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
WY11-500AF				500	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10
WY11-1KAF				1K	160	160	157	96	114	100.5	135	10	Ø4.3	6 x 13	M4	12.30
WY11-1.5KAF				1.5K	184	188.5	150	110	133.8	95.2	122	16	Ø4.3	7 x 14	M6	16.50
WY11-2KAF				2K	184	188.5	170	110	133.8	115.2	137	16	Ø4.3	7 x 19	M6	20.10

※ 정격용량 : 최대전압(TAP)에서의 용량임.

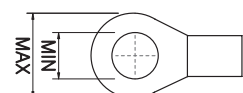
※ Rated capacity : Capacity at the maximum voltage(TAP).

● Dimension

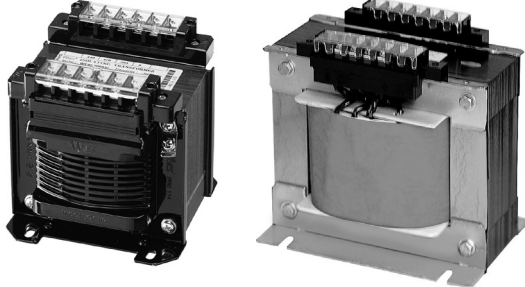
• WT Type



● Terminal



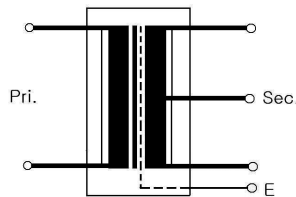
100VA : Max 6, Min 3.5
200VA~1kVA : Max 9, Min 4
1.5~2kVA : Max 15, Min 6



단상 복권형으로 입력 과 출력이 AC220V 1:1절연형으로 Line에서 Noise 감쇄 효과를 얻을 수 있어 Noise로 인한 각종기기의 오동작을 줄이는데 효과적이다. AC 입력전압 인가시 전원표시 LED가 동작하여 안전성과 전모델 CE 획득으로 신뢰성을 확보하여 소비자의 사용에 충족하도록 설계된 제품 입니다.

Input voltage of single phase is AC 220V and output is AC 220. It is a product of 1:1 and manufactured with isolation to use stable output voltage as line noise is filtered. Also it is produced by terminal block with LED type and all models have been acquired of CE to meet customer and demand.

•Circuit Diagram



● Specifications

·50VA~2KVA Insulation Class B
·3KVA~5KVA Insulation Class H

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)											WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M	
• 220V Line → 220V Line Isolation Series																
WY22-50AF	WT	0-200-220	0-210-220 -230-(E)	50	79	89	88	42	57	53.5	68	7	Ø3.6	5 x 12	M3.5	1.65
WY22-80AF				80	89	98	105	46	65	62	83	7	Ø3.6	5 x 12	M3.5	2.30
WY22-100AF				100	89	98	105	46	65	62	83	7	Ø3.6	5 x 12	M3.5	2.59
WY22-150AF				150	98	106	113	54	72	68	94	7	Ø3.6	6 x 12	M3.5	3.20
WY22-200AF				200	112	114	110	58	76	65.5	88	10	Ø3.6	5 x 10	M4	3.60
WY22-300AF				300	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
WY22-500AF				500	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10
WY22-750AF				750	160	162	146	96	114	92.5	125	10	Ø3.6	6 x 13	M4	10.70
WY22-1KAF				1K	160	162	156	96	114	102	134	16	Ø4.3	7 x 14	M6	12.30
WY22-1.5KAF				1.5K	184	188.5	150	110	133.8	95.2	122	16	Ø4.3	7 x 14	M6	16.50
WY22-2KAF				2K	184	188.5	170	110	133.8	115.2	137	16	Ø4.3	7 x 19	M6	20.10
WY22-3KAF	WT	0-200-220	0-210-220 -230-(E)	3K	219	226	170	-	120	-	135	16	-	7 x 15	M6	26.70
WY22-5KAF				5K	245	240	192	-	180	-	165	16	-	9 x 19	M6	40.20

※ Order Production : More then 5KVA

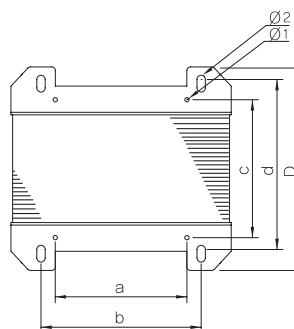
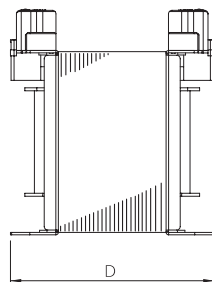
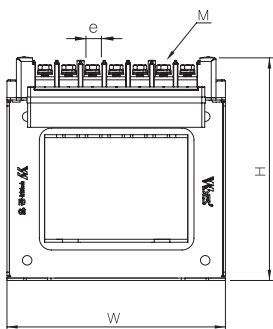
※ 3KVA 이상 " I " Bolt 부착 (Attach an " I " bolt for 3KVA or larger)

※ 정격용량 : 최대전압(TAP)에서의 용량임.

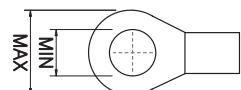
※ Rated capacity : Capacity at the maximum voltage(TAP).

● Dimension

• WT Type



● Terminal



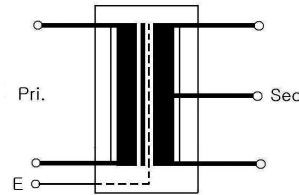
50~150VA : Max6, Min 3.5
200VA~1kVA : Max 9, Min 4
1.5~5kVA : Max 15, Min 6



단상 복권형으로 입력은 AC220, 380/440V 이며 출력은 AC115~230V 까지 Filed용으로 제작 하였으며 AC 입력전압 인가시 전원표시 LED가 발광되어 소비자의 안전성을 고려한 제품입니다.

Input voltage of single phase is AC220, 380/440V and output is AC 115~230V. It has been produced to meet user demand with manufacture of power lamp type.

• Circuit Diagram



● Specifications

Insulation Class B

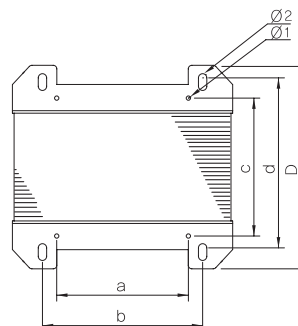
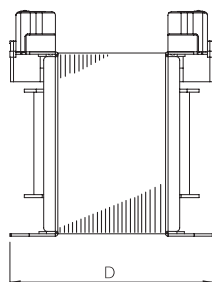
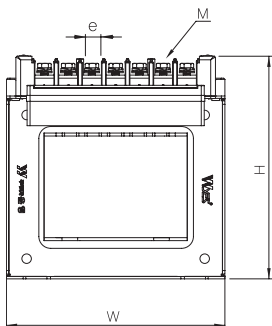
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)											WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M	
• 220V Line → 115V ~ 230V																
WY22-300FC	WT	0-210-220 -230-(E)	0-150-170-190-210-230	300	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
WY22-500FC			0-115-150-170-190 -210-230	500	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10
WY22-750FC				750	160	162	146	96	114	90.5	125	10	Ø3.6	6 x 13	M4	10.70
WY22-1KFC				1K	160	162	156	96	114	102	134	16	Ø3.6	6 x 13	M4	12.30
WY22-1.5KFC				1.5K	184	188.5	150	110	133.8	95.2	122	16	Ø4.3	7 x 14	M6	16.50
WY22-2KFC				2K	184	188.5	170	110	133.8	115.2	137	16	Ø4.3	7 x 19	M6	20.10
• 380V Line → 115V ~ 230V																
WY42-300FC	WT	0-380-420 -440-(E)	0-150-170-190-210-230	300	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
WY42-500FC			0-115-150-170-190 -210-230	500	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10
WY42-750FC				750	160	162	146	96	114	90.5	125	10	Ø3.6	6 x 13	M4	10.70
WY42-1KFC				1K	160	162	156	96	114	102	134	16	Ø3.6	6 x 13	M4	12.30
WY42-1.5KFC				1.5K	184	188.5	150	110	133.8	95.2	122	16	Ø4.3	7 x 14	M6	16.50
WY42-2KFC				2K	184	188.5	170	110	133.8	115.2	137	16	Ø4.3	7 x 19	M6	20.10

※ 정격용량 : 최대전압(TAP)에서의 용량임.

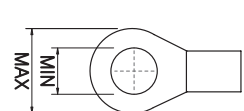
※ Rated capacity : Capacity at the maximum voltage(TAP).

● Dimension

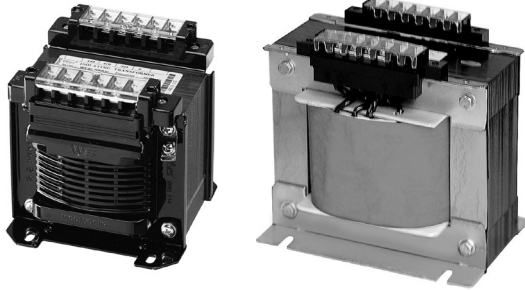
• WT Type



● Terminal



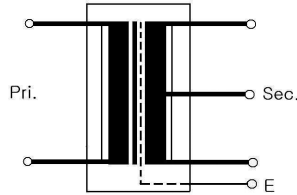
300VA~1kVA : Max 9, Min 4
1.5~2kVA : Max 15, Min 6



단상 복권형으로 입력 Tap을 AC380V~480V 출력 Tap은 AC100~120V 까지 다양화하여 사용이 용이하도록 하였으며 AC입력전압 인가시 전원표시 LED가 동작하여 소비자의 안전성을 고려한 제품 입니다.

Input voltage of single phase is AC 380V and 480V and output is AC 100~120V. It has been manufactured by terminal block type in a consideration of efficiency of power lamp type.

•Circuit Diagram



● Specifications

•60VA~2KVA Insulation Class B
•3KVA~5KVA Insulation Class H

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)											WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M	
• 380V, 440V Line → 110V Line																
WY41-60A	WT	0-380 -420-440 -460-480	0-100 -110-120-(E)	60	79	89	88	42	57	53.5	68	7	Ø3.6	5 x 12	M3.5	1.65
WY41-80A				80	89	98	105	46	65	62	83	7	Ø3.6	5 x 12	M3.5	2.30
WY41-100A				100	98	106	105	54	72	61	88	7	Ø3.6	6 x 12	M3.5	2.59
WY41-150A				150	98	106	113	54	72	68	94	7	Ø3.6	6 x 12	M3.5	3.20
WY41-200A				200	112	114	110	58	76	65.5	88	10	Ø3.6	5 x 10	M4	3.60
WY41-300A				300	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
WY41-500A				500	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10
WY41-750A				750	160	162	146	96	114	92.5	125	10	Ø3.6	6 x 13	M4	10.70
WY41-1KA				1K	160	162	156	96	114	102	134	16	Ø4.3	7 x 14	M6	12.30
WY41-1.5A				1.5K	184	188.5	150	110	133.8	95.2	122	16	Ø4.3	7 x 14	M6	16.50
WY41-2KA	WT	0-380 -420-440 -460-480	0-100 -110-120-(E)	2K	184	188.5	170	110	133.8	115.2	137	16	Ø4.3	7 x 19	M6	20.10
WY41-3KA				3K	219	226	170	-	120	-	135	16	-	7 x 15	M6	26.70
WY41-5KA				5K	245	240	192	-	180	-	165	16	-	9 x 19	M6	40.20

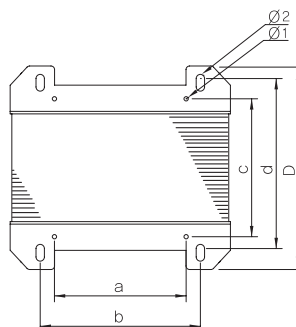
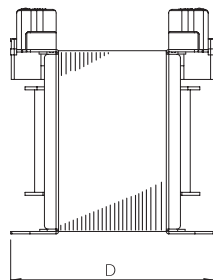
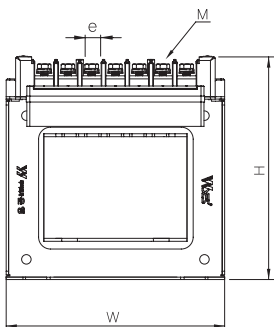
※ 3KVA 이상 "I" Bolt 부착 (Attach an "I" bolt for 3KVA or larger)

※ 정격용량 : 최대전압(TAP)에서의 용량임.

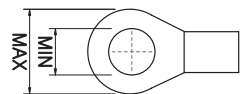
※ Rated capacity : Capacity at the maximum voltage(TAP).

● Dimension

• WT Type

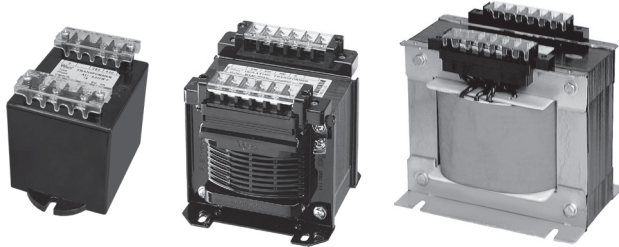


● Terminal



60~150VA : Max 6, Min 3.5
200VA~1kVA : Max 9, Min 4
1.5~5kVA : Max 15, Min 6

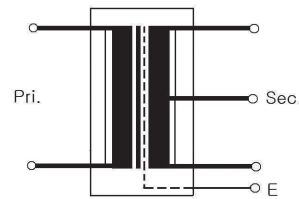
트랜스포머
REACTOR
리액터
무정전압변압기
SSR
전력조정기
TPR
스위칭파워
SMP
노이즈필터
N/F
하모닉필터
H/F
서지보호기
SPD
보호계전기
RELAY
ELED=GF
영상변류기
ZCT
판넬메타
MEETER
계기용변성기
CT=VT
SHUNT=FA
선트랜



단상 복권형으로 AC 380V, 440V 이며 출력은 AC 110V, 220V 로 소용량부터 대용량까지 규격화 하였으며 **CE**를 획득하여 품질을 한층 높였습니다. AC 입력 전압 인가시 전원 표시 LED가 동작하여 소비자의 안전성을 고려한 제품 입니다.

Input voltage of single phase is AC 380V and 440V and output is AC 110V and 220V. Product is specialized and standardized from small sized to large capacity **CE** to meet the customer needs with the classification of efficiency of power lamp type.

• Circuit Diagram



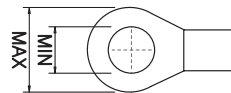
● Specifications

• 20VA~2KVA Insulation Class B
• 3KVA~7.5KVA Insulation Class H

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)											WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M	
• 380V, 440V Line → 220V Line																
WY42-20AWT	WMT	0-380-440	0-110-220-(E)	20	94	77	61	72	80	37	-	-	-	5 x 7.5	M3	0.75
WY42-40AW	WT	0-380-420-440	0-110-200-220-(E)	40	79	89	83	42	57	48.5	63	7	Ø3.6	5 x 12	M3.5	1.31
WY42-60AW				60	79	89	88	42	57	53.5	68	7	Ø3.6	5 x 12	M3.5	1.65
WY42-80AW				80	89	98	105	46	65	62	83	7	Ø3.6	5 x 12	M3.5	2.30
WY42-100AW				100	98	106	105	54	72	61	88	7	Ø3.6	6 x 12	M3.5	2.59
WY42-150AW				150	98	106	113	54	72	68	94	7	Ø3.6	6 x 12	M3.5	3.20
WY42-200AW				200	112	114	110	58	76	65.5	88	10	Ø3.6	5 x 10	M4	3.60
WY42-300AW				300	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
WY42-500AW				500	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10
WY42-750AW				750	160	162	146	96	114	92.5	125	10	Ø3.6	6 x 13	M4	10.70
WY42-1KAW				1K	160	162	156	96	114	102	13 4	16	Ø4.3	7 x 14	M6	12.30
WY42-1.5KAW				1.5K	184	188.5	150	110	133.8	95.2	122	16	Ø4.3	7 x 14	M6	16.50
WY42-2KAW				2K	184	188.5	170	110	133.8	115.2	137	16	Ø4.3	7 x 19	M6	20.10
WY42-3KAW	WT	0-380-420-440	0-110-200-220-(E)	3K	219	226	170	-	120	-	135	16	-	7 x 15	M6	26.70
WY42-5KAW				5K	245	240	192	-	180	-	165	16	-	9 x 19	M6	40.20
WY42-7.5KAW				7.5K	270	270	200	-	180	-	170	16	-	9 x 19	M6	52.00

※ 3KVA 이상 "I" Bolt 부착 (Attach an "I" bolt for 3KVA or larger) ※ 정격용량 : 최대전압(TAP)에서의 용량임. ※ Rated capacity : Capacity at the maximum voltage(TAP).

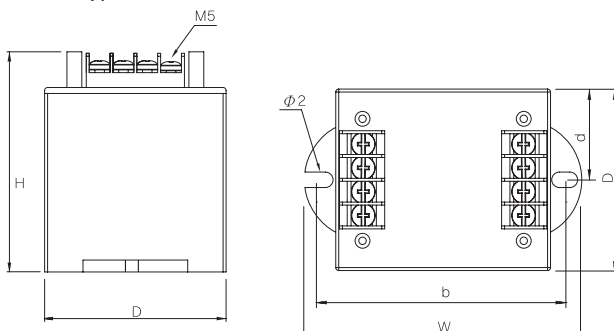
● Terminal



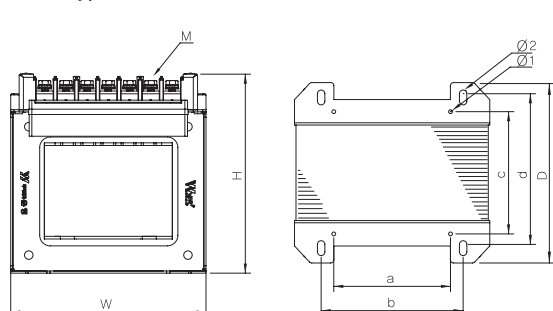
40~50VA : Max 6, Min 3.5
200VA~1kVA : Max 9, Min 4
2~7.5kVA : Max 15, Min 6

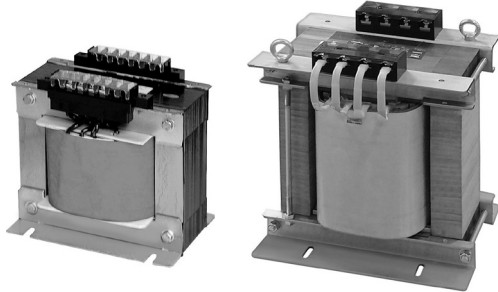
● Dimension

• WMT Type



• WT Type

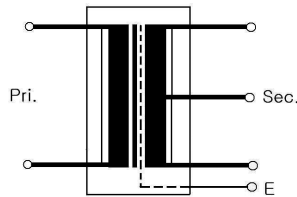




단상 복권형으로 입력은 AC380V, 440V이며 출력은 AC110V, 220V H종 건식으로 전체 진공 함침하여 열악한 환경에서도 견딜 수 있는 제품으로 50KVA 까지 CE 인증을 획득하여 제품 신뢰성을 확보한 제품입니다.

Input is AC380V, 440V by single phase double winding type and output is AC110,220V. This transformer is H insulation class and enforcing vacuum varnish immersion acquire CE certification to 50KVA by product that can bear in worst environments and is product that secure reliability.

•Circuit Diagram



● Specifications

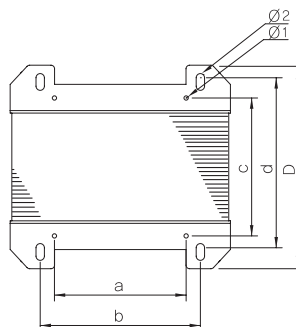
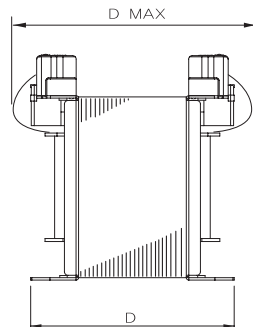
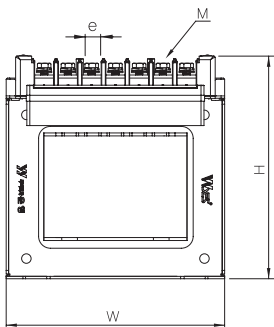
Insulation Class H

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	D Max	b	d	e	Ø2	M	
• 380V, 440V Line → 220V Line														
WY42-10KAW	WT	0-380-420-440	0-110-200-220-(E)	10K	310	308	212	221.6	219	164	16	11 x 30	M6	68.0
WY42-15KAW				15K	310	308	232	241.6	219	184	16	11 x 30	M6	74.0
WY42-20KAW				20K	360	377.4	269.6	430	270	210.6	16	11 x 38	M6	112.2
WY42-30KAW			0-110-220-(E)	30K	380	453.3	301.6	485	200	226.6	16	11 x 41	M6	162.6
WY42-40KAW				40K	480	461	317.6	510	240	247.6	20	13 x 40	M8	215.0
WY42-50KAW				50K	500	482.5	317.6	535	260	247.6	20	13 x 40	M8	221.0

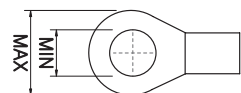
- ※ 3KVA 이상 "I" Bolt 부착 (Attach an "I" bolt for 3KVA or larger)
- ※ 정격용량 : 최대전압(TAP)에서의 용량임.
- ※ Rated capacity : Capacity at the maximum voltage(TAP).

● Dimension

• WT Type



● Terminal



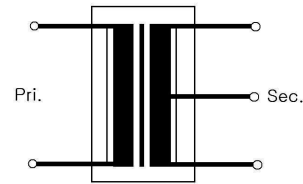
10~30kVA : Max 15, Min 6
40~50kVA : Max 19, Min 8

단상 복권형으로 입력은 AC 380V, 440V이며 출력은 AC 220V로 납땜식 (Soldering Type)으로 전원 공급용으로 제작되었으며 높이의 제한이 있는곳에 사용합니다.

Input is AC380V, 440V by single phase double winding type and output is AC220V. this transformer has soldering terminal and used much in place that height is limited.



•Circuit Diagram



● Specifications

Insulation Class B

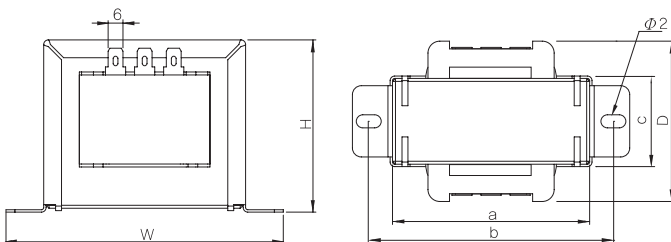
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)										WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	(a.c)Ø1	Ø2		
WY42-10AO	WB	0-380-440-460	0-110-220-(E)	10	95	52	44	59	72	23	-	-	4.5 x 7	0.45	
WY42-25AO				25	95	60	55	69	81	31	-	-	4.5 x 7	0.75	
WY42-40AO	WO	0-380-420-440-460	0-110-200-220-240-(E)	40	78	69	83	42	57	46	63	Ø3.6	5 x 12	1.34	
WY42-60AO				60	78	69	88	42	57	48	68	Ø3.6	5 x 12	1.49	
WY42-80AO				80	88	78	103	46	64	58	80	Ø3.6	5 x 12	1.98	
WY42-100AO				100	99	85	105	46	64	63	85	Ø3.6	5 x 12	2.58	
WY42-150AO				150	99	86	116	54	72	70	96	Ø3.6	6 x 12	3.23	

※ 정격용량 : 최대전압(TAP)에서의 용량임.

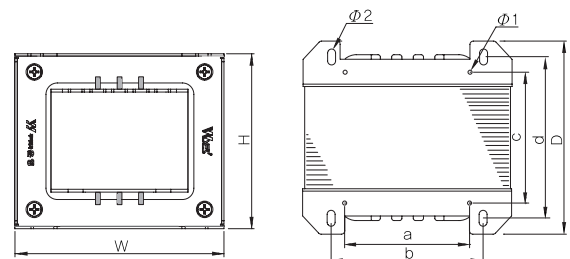
※ Rated capacity : Capacity at the maximum voltage(TAP).

● Dimension

• WB Type



• WO Type

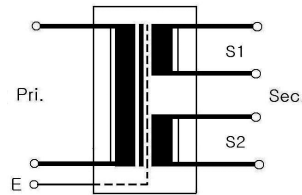




단상 복권형으로 입력은 AC 380V, 440V 이고 출력은 AC 110V, 220V, AC12V, 24V로 분리하여 1곳에서 2곳의 전원이 필요한 장소에서 용이하며 AC 입력전원 인가시 전원 표시 LED가 동작하여 소비자의 안정성을 고려한 제품입니다.

Input voltage of single phase is AC 380V and 440V and output is two way of AC 110V, 220V, AC12V and 24V. this Transformer is can be used with needed 2power of 1place. It has been manufactured by power lamp type.

•Circuit Diagram



● Specifications

Insulation Class B

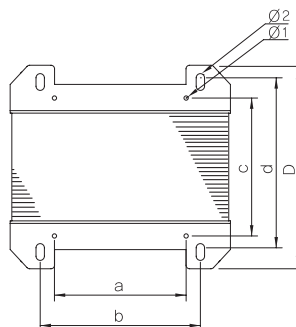
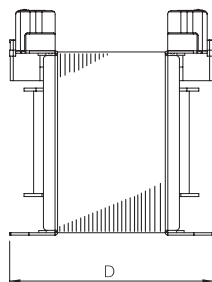
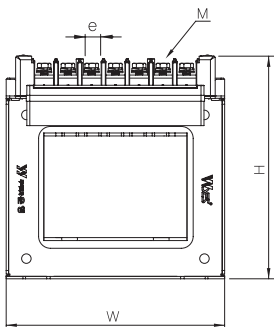
MODEL NO.	TYPE	SPECIFICATIONS		VA	S2 (A)	DIMENSIONS (mm)											WEIGHT (kg)
		PRI.(V)	SEC.(V)			W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M	
WY42-60A2	WT	0-380-420 -440-460-(E)	S1 0-110-220 S2 0-12-24	60	0.27	79	89	88	42	57	55.5	68	7	Ø3.6	5 x 12	M3.5	1.31
WY42-100A2				100	0.5	98	106	105	54	73	61	88	7	Ø3.6	6 x 12	M3.5	2.59
WY42-200A2				200	0.8	112	114	110	58	76	65.5	88	10	Ø3.6	5 x 10	M4	3.60
WY42-300A2				300	1.5	112	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
WY42-500A2				500	2.5	142	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10
WY42-1KA2				1K	4	160	160	157	96	114	100.5	135	10	Ø4.3	6 x 13	M4	12.30

※ 정격용량 : 최대전압(TAP)에서의 용량임.

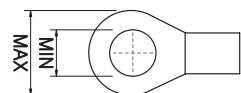
※ Rated capacity : Capacity at the maximum voltage(TAP).

● Dimension

• WT Type



● Terminal



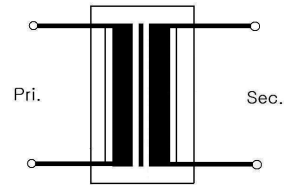
60~100VA : Max 6, Min 3.5
200VA~1kVA : Max 9, Min 4

단상 복권형으로 입력 AC380/440V 출력 AC 220V로 Lead-Wire로 제작되었으며 권선 보호 덮개형으로 분진, 습기가 많은 곳에서 사용하도록 제작 하였습니다.

Input voltage of single phase is AC 380V/440V and output is AC 220V. It has been with drawn by lead wire and manufactured to be used at the place of severe dust and humidity and vibration etc.



•Circuit Diagram



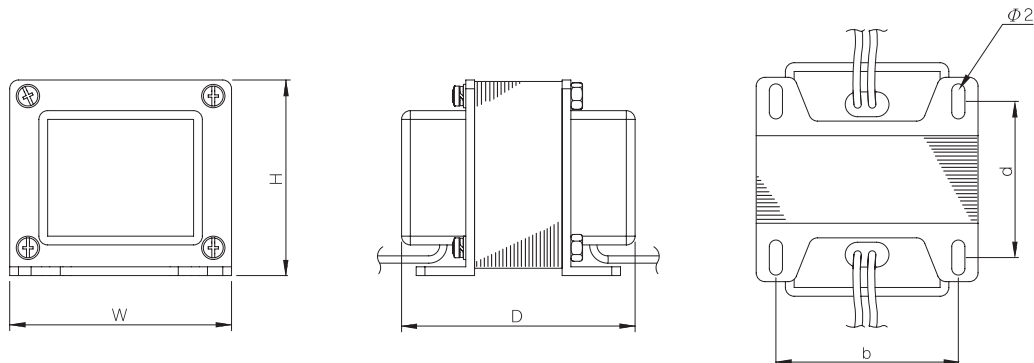
● Specifications

Insulation Class B

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)						SUITABLE WIRE		WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	b	d	Ø2	PRI.	SEC.	
WY42-40DE	WE	0-380-440 흑(BLACK) 청(BLUE) 황(YELLOW)	0-220 흑(BLACK) 적(RED)	40	78	68	81	64	54	4 x 11	0.75mm ²	0.75mm ²	1.30
WY42-60DE				60	78	68	86	64	59	4 x 11			1.60
WY42-80DE				80	89	75	101	76.5	67.5	5 x 14			1.95
WY42-100DE				100	99	85	103	79	70	5 x 14			2.27
WY42-150DE				150	99	85	113	79	80	5 x 15			3.20

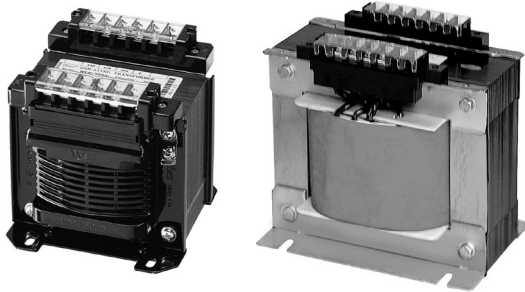
● Dimension

• WP Type

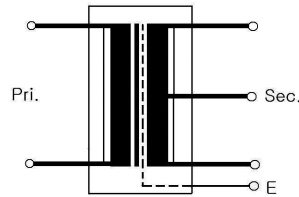


단상 복권형으로 입력은 AC440V~500V이며 출력은 AC110, 220V로 60VA~5KVA 규격화하였으며 CE를 획득 하였습니다 소비자의 안전성을 고려하여 AC 입력전압 인가시 전원표시 LED가 켜집니다.

Input voltage of single phase is AC 440V and 500V and output is AC 110V and 220V. Product is specialized and standardized from small sized to large capacity (60VA~5KVA) CE to meet the customer needs with power lamp type.



•Circuit Diagram



● Specifications

•60VA~2KVA Insulation Class B
•3KVA~5KVA Insulation Class H

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)											WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M	
• 440V, 460V, 480V, 500V LINE → 110, 220V LINE																
WY52-60AW	WT	0-440-460-480-500	0-110-220-(E)	60	79	89	88	42	57	53.5	68	7	Ø3.6	5 x 12	M3.5	1.65
WY52-80AW				80	89	98	105	46	65	62	83	7	Ø3.6	5 x 12	M3.5	2.30
WY52-100AW				100	98	106	105	54	73	61	88	7	Ø3.6	6 x 12	M3.5	2.59
WY52-150AW				150	98	106	113	54	72	68	94	7	Ø3.6	6 x 12	M3.5	3.20
WY52-200AW				200	112	114	110	58	76	65.5	88	10	Ø3.6	5 x 10	M4	3.60
WY52-300AW				300	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
WY52-500AW				500	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10
WY52-750AW				750	160	162	146	96	114	92.5	135	10	Ø3.6	6 x 14	M4	10.70
WY52-1KAW				1K	160	162	156	96	114	102	134	16	Ø4.3	7 x 14	M6	12.30
WY52-1.5KAW				1.5K	184	188.5	150	110	133.8	95.2	122	16	Ø4.3	7 x 14	M6	16.50
WY52-2KAW				2K	184	188.5	170	110	133.8	115.2	137	16	Ø4.3	7 x 19	M6	20.10
WY52-3KAW	WT	0-440-460-480-500	0-110-220-(E)	3K	219	226	170	-	120	-	135	16	-	7 x 15	M6	26.70
WY52-5KAW				5K	245	240	192	-	180	-	165	16	-	9 x 19	M6	40.20

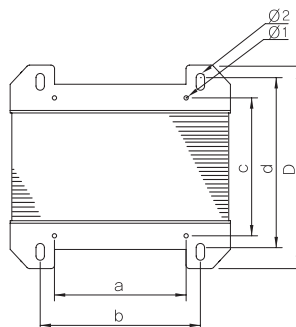
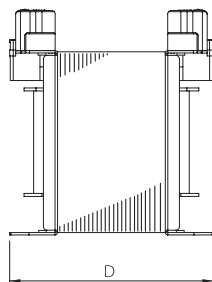
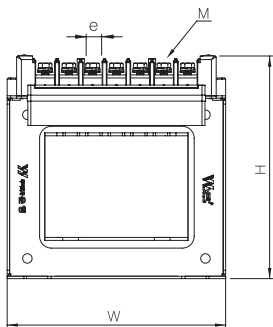
※ 3KVA 이상 "I" Bolt 부착 (Attach an "I" bolt for 3KVA or larger)

※ 정격용량 : 최대전압(TAP)에서의 용량임.

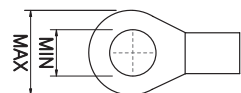
※ Rated capacity : Capacity at the maximum voltage(TAP)

● Dimension

• WT Type



● Terminal



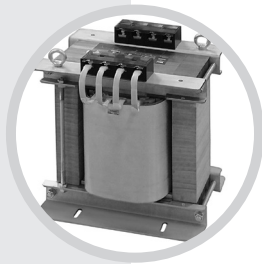
60VA~150VA : Max 6, Min 3.5
200VA~1kVA : Max 9, Min 4
1.5~5kVA : Max 15, Min 6

TRANS=인버터
REACTOR=리액터
SSR=무정전압릴레이
TPR=전력조정기
SMP=스위칭파워
N/F=노이즈필터
H/F=하모닉필터
SPD=서지보호기
RELAY=보호계전기
ELD=누전경보기
ZCT=영상변류기
METER=판넬메타
CT=계기용변성기
SHUNT=선트팬

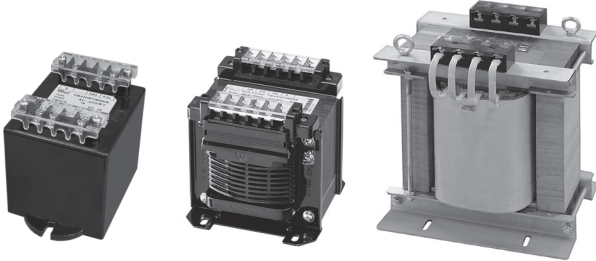
1Ø 단권형

1Ø Auto Transformer

110V, 220V, 380V, 440V, 500V Line



- WYAU-D Series
- WYAU-DO Series
- WYAU-DE Series
- WYAU-DW Series
- WYAU-DWO Series
- WYAU-DWE Series

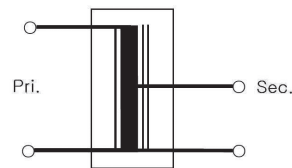


단상단권형으로 입력과 출력 전압이 한권선으로 전압탭을 인출하여 크기가 작고 가격이 저렴한 반면 사용이 제한되어 Lamp, Heater, Motor, Fan부하 등 단순 부하에 사용되나 콘트를 제어 위치제어 PLC, 각종 Noise에 영향을 받는 제품 사용시에는 오동작 우려가 있으니 신중하게 고려 하시기 바랍니다.

It is single phase and auto transformer that the primary and secondary windings are connected. So the size is small and the price is cheap but it is used simple load as Lamp, Heater, Motor and Fan.

Please consider carefully because it may malfunction when use to noise sensitive appliance to various controllers, position controller, PLC Etc.

• Circuit Diagram



● Specifications

• 10VA~3KVA Insulation Class B
• 5KVA~50KVA Insulation Class H

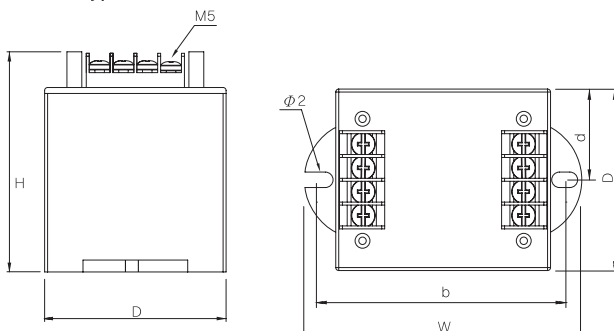
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)											WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M	
WYAU-10DT	WMT	0-100-110-200-220-240 (0V : COMMON)		10	72	60	36	-	60	-	18	-	Ø4.5	4.5 x 8	-	0.75
WYAU-50DT				50	94	77	61	72	80	37	-	-	-	5 x 7.5	M3	0.78
WYAU-75D				75	79	89	83	42	57	48.5	63	7	Ø3.6	5 x 12	M3.5	1.31
WYAU-100D	WT	0-100-110-200-220-240 (0V : COMMON)		100	79	89	88	42	57	53.5	68	7	Ø3.6	5 x 12	M3.5	1.50
WYAU-150D				150	89	98	105	46	65	62	83	7	Ø3.6	5 x 12	M3.5	2.30
WYAU-200D				200	98	106	105	54	72	61	88	7	Ø3.6	6 x 12	M3.5	2.59
WYAU-300D				300	98	106	113	54	72	68	94	7	Ø3.6	5 x 10	M3.5	3.23
WYAU-500D				500	112	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97
WYAU-1KD				1K	140	140	126	82	98	79.5	105	10	Ø4.3	6 x 12	M4	7.10
WYAU-1.5KD				1.5K	160	162	146	96	114	92.5	125	10	Ø3.6	6 x 13	M4	10.70
WYAU-2KD				2K	160	160	157	96	114	100.5	135	10	-	6 x 13	M4	12.30
WYAU-3KD				3K	185	188	151	110	134	95	123	16	-	7 x 14	M6	16.50
WYAU-5KD				5K	219	220	170	-	120	-	135	16	-	10 x 30	M6	26.70
WYAU-7.5KD	WT	0-100-110-200-220-240 (0V : COMMON)		7.5K	245	240	188	-	180	-	158	16	-	10 x 30	M6	33.50
WYAU-10KD				10K	245	240	192	-	180	-	165	16	-	10 x 30	M6	40.20
WYAU-15KD				15K	270	272	236	110	180	110	175	16	-	10 x 35	M6	52.00
WYAU-20KD				20K	310	305	250	-	220	-	160	16	-	10 x 30	M6	68.00
WYAU-30KD				30K	310	305	280	-	220	-	180	16	-	10 x 35	M6	91.90
WYAU-40KD	WT	0-110-200-220-240		40K	360	385	360	-	270	-	200	16	-	13.5 x 35	M8	102.00
WYAU-50KD				50K	380	450	440	-	200	-	230	16	-	13.5 x 35	M8	112.30

※ 5kVA까지 LED 부착

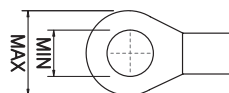
※ 3KVA 이상 "I" Bolt 부착 (Attach an "I" bolt for 3KVA or larger)

● Dimension

• WMT Type

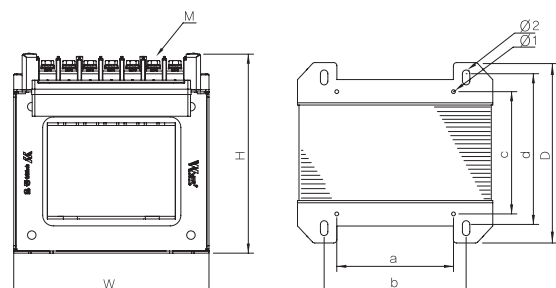


● Terminal



75~300VA : Max 6, Min 3.5
500VA~2kVA : Max 9, Min 4
3~30kVA : Max 15, Min 6
40~50kVA : Max 19, Min 8

• WT Type

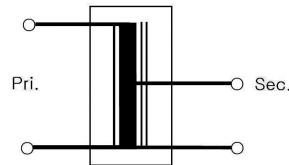




단상 단권형으로 입력 AC220V, 출력 AC110V로 탭식으로 일반 전원용으로 제작되었으며 복권식에 비해 1, 2차 구분없이 한개의 권선에서 인출된 권선 방식으로 제작되었습니다.

With a single phase, it has been manufactured for general electric source with AC220V of input voltage and AC110V of output by soldering type. It is produced by auto transformer type from one coil without classification of the primary and secondary.

•Circuit Diagram



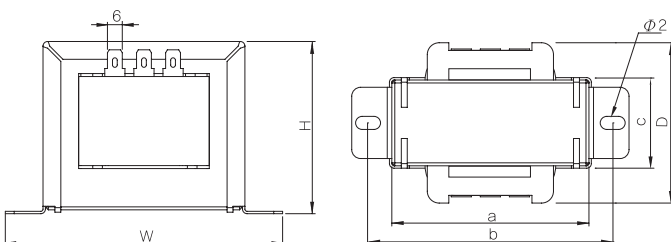
● Specifications

Insulation Class B

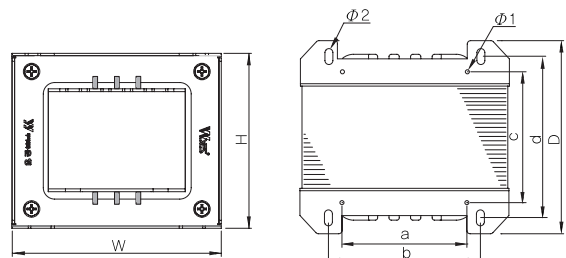
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)										WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	(a.c)Ø1	Ø2		
WYAU-10DO	WB	0-110-220 (0V : COMMON)		10	70	44	28	50	60	19	-	-	4 x 6	0.28	
WYAU-20DO		0-100-110-200-220-240 (0V : COMMON)		20	85	52	44	59	72	23	-	-	4.5 x 7	0.45	
WYAU-50DO				50	95	60	55	69	81	31	-	-	5 x 7	0.78	
WYAU-75DO	75			78	69	83	42	57	46	63	M4	5 x 12	1.34		
WYAU-100DO	100			78	69	88	42	57	56	68	M4	5 x 12	1.79		
WYAU-150DO	WO	0-100-110-200-220-240 (0V : COMMON)		150	88	78	103	46	64	58	80	M4	5 x 12	1.98	
WYAU-200DO				200	99	85	105	46	72	63	96	M4	6 x 12	2.58	
WYAU-300DO				300	99	86	116	54	72	70	94	M4	6 x 12	3.23	

● Dimension

• WB Type



• WO Type

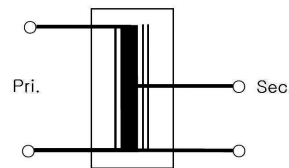


단상 단권형으로 입력 AC 220V 출력 AC 110V로 Lead-Wire로 제작되었으며 권선보호형 덮개 Type으로 분진, 습기가 많은 곳에서 사용하도록 제작하였습니다.

Manufactured by lead wire, it is a single phase auto transformer with AC220V of input and AC110V of output. It can be used at the severe place of dust, vibration and humidity by protective cover of winding.



•Circuit Diagram



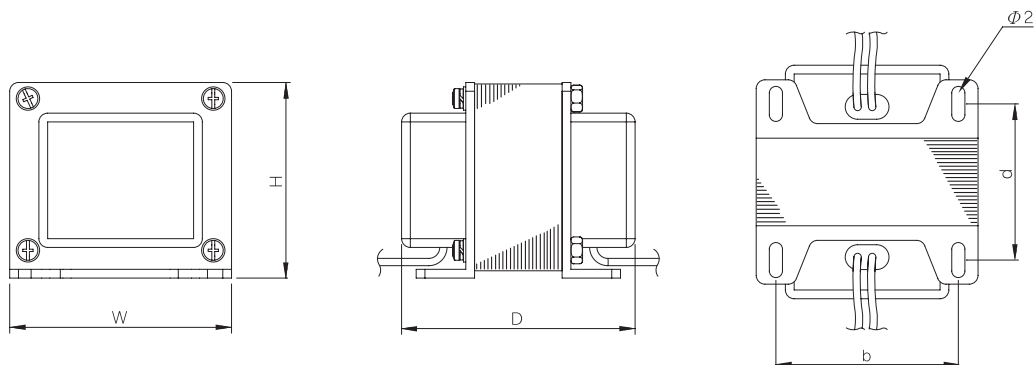
● Specifications

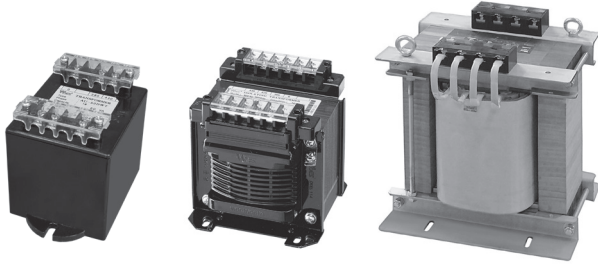
Insulation Class B

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)						SUITABLE WIRE		WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	b	d	Ø2	PRI.	SEC.	
WYAU-75DE	WE	O-220 흑(BLACK) 적(REL)	O-110 흑(BLACK) 갈(BROWN)	75	78	68	81	64	54	4 x 11	0.75mm ²	0.75mm ²	1.30
WYAU-100DE				100	78	68	86	64	59	4 x 11			1.60
WYAU-150DE				150	89	75	101	76.5	67.5	5 x 14			1.95
WYAU-200DE				200	99	85	103	79	70	5 x 14			2.27
WYAU-300DE				300	99	85	113	79	80	5 x 15			3.20

● Dimension

• WP Type





단상단권형으로 입력과 출력 전압이 한권선으로 전압탭을 인출하여 크기가 작고 가격이 저렴한 반면 사용이 제한되어 Lamp, Heater, Motor, Fan부하 등 단순 부하에 사용되나 콘트롤 제어 위치제어 PLC, 각종 Noise에 영향을 받는 제품 사용시에는 오동작 우려가 있으니 신중하게 고려 하시기 바랍니다.

It is single phase and auto transformer that the primary and secondary windings are connected. So the size is small and the price is cheap but it is used simple load as Lamp, Heater, Motor and Fan.

Please consider carefully because it may malfunction when use to noise sensitive appliance to various controllers, position controller, PLC Etc.

•Circuit Diagram



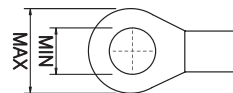
● Specifications

•10VA~3KVA Insulation Class B
•5KVA~50KVA Insulation Class H

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)												WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	e	(a.c)Ø1	Ø2	M		
WYAU-10DWT	WMT	0-110-220-380-440 (0V : COMMON)		10	72	60	36	-	60	-	18	-	Ø4.5	4.5 x 8	-	0.75	
WYAU-50DWT				50	94	77	61	72	80	37	-	-	-	5 x 7.5	M3	0.78	
WYAU-75DW	WT	0-110-220-380-420-440-460 (0V : COMMON)		75	79	89	83	42	57	53.5	63	7	Ø3.6	5 x 12	M3.5	1.31	
WYAU-100DW				100	79	89	88	42	57	53.5	68	7	Ø3.6	5 x 12	M3.5	1.65	
WYAU-150DW				150	89	98	105	46	65	62	83	7	Ø3.6	5 x 12	M3.5	2.30	
WYAU-200DW				200	98	106	105	54	72	68	88	7	Ø3.6	6 x 12	M3.5	2.59	
WYAU-300DW				300	98	106	113	54	72	68	94	7	Ø3.6	6 x 12	M3.5	3.23	
WYAU-500DW				500	121	122	114	66	84	73	95	10	Ø3.6	5 x 10	M4	4.97	
WYAU-1KDW				1K	140	140	126	82	98	79.5	105	10	Ø3.6	6 x 12	M4	7.10	
WYAU-1.5KDW				1.5K	160	162	146	96	114	92.5	125	10	Ø3.6	6 x 13	M4	10.70	
WYAU-2KDW				2K	160	160	157	96	114	102.5	135	10	Ø4.3	6 x 13	M4	12.30	
WYAU-3KDW				3K	185	188	151	110	134	95	123	16	Ø4.3	7 x 14	M6	16.50	
WYAU-5KDW	WT	0-110-220-380-420-440-460 (0V : COMMON)		5K	219	250	170	-	120	-	135	16	-	10 x 30	M6	26.70	
WYAU-7.5KDW				7.5K	245	240	188	-	180	-	158	16	-	10 x 30	M6	33.40	
WYAU-10KDW				10K	245	240	192	-	180	-	165	16	-	10 x 30	M6	40.20	
WYAU-15KDW				15K	275	272	231	110	180	110	175	16	-	10 x 30	M6	52.00	
WYAU-20KDW				20K	310	305	250	-	220	-	160	16	-	10 x 35	M6	68.00	
WYAU-30KDW				30K	310	305	280	-	220	-	180	16	-	10 x 35	M6	91.90	
WYAU-40KDW				40K	360	385	360	-	270	-	200	20	-	12 x 35	M8	102.00	
WYAU-50KDW				50K	380	490	350	-	280	-	280	20	-	12 x 35	M8	112.30	

※ 3KVA 이상 "I" Bolt 부착 (Attach an "I" bolt for 3KVA or larger)

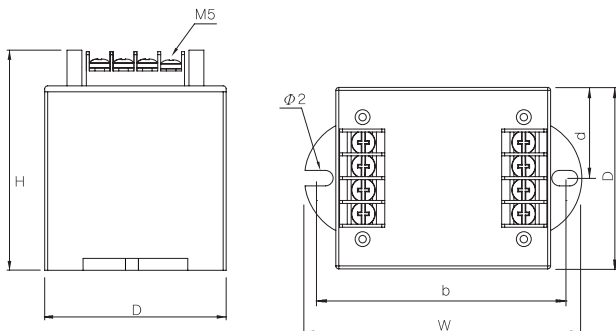
● Terminal



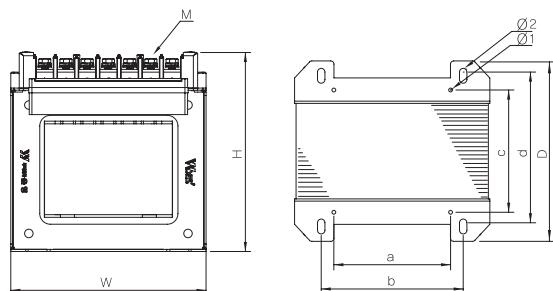
75~300VA : Max 6, Min 3.5
500VA~2kVA : Max 9, Min 4
3~30kVA : Max 15, Min 6
40~50kVA : Max 19, Min 8

● Dimension

• WMT Type



• WT Type

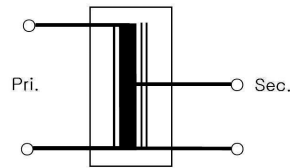


단상 단권형으로 입력 AC380V, 440V, 출력 AC110V, 220V로 탭식으로 일반 전원용으로 제작되었으며 복권식에 비해 1, 2차 구분없이 한개의 권선에서 인출된 권선 방식으로 제작 되었습니다.

With a single phase, it has been manufactured for general electric source with AC380V, 440V of input voltage and AC110V, 220V of output by soldering type. It is produced by auto transformer type from one coil without classification of the primary and secondary.



• Circuit Diagram



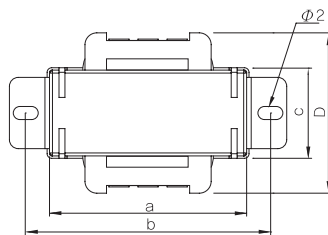
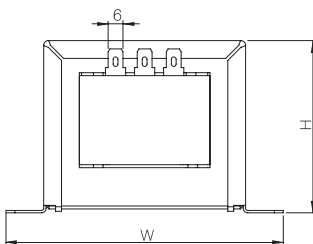
● Specifications

Insulation Class B

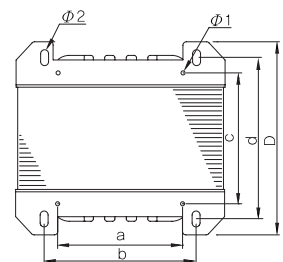
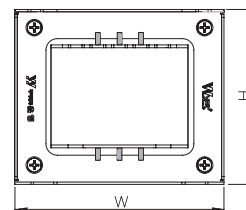
MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	a	b	c	d	(a.c)Ø1	Ø2	
WYAU-10DWO	WB	0-110-220-380-440 (0V : COMMON)		10	70	44	38	50	60	19	-	-	4 x 6	0.28
WYAU-20DWO				25	85	52	44	59	72	23	-	-	4.5 x 7	0.45
WYAU-50DWO				25	95	60	55	69	81	31	-	-	5 x 7	0.78
WYAU-75DWO	WO	0-110-220-380-420-440-460 (0V : COMMON)		40	78	69	83	42	57	46	63	M4	5 x 12	1.34
WYAU-100DWO				60	78	69	88	42	57	56	68	M4	5 x 12	1.79
WYAU-150DWO				80	88	78	103	46	64	58	80	M4	5 x 12	1.98
WYAU-200DWO				100	99	85	105	46	72	63	96	M4	6 x 12	2.58
WYAU-300DWO				150	99	86	116	54	72	70	94	M4	6 x 12	3.23

● Dimension

• WB Type



• WO Type

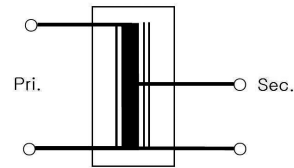




단상 단권형으로 입력 AC380/440V 출력 AC 220V로 Lead-Wire로 제작되었으며 권선보호형 덮개형으로 분진, 습기가 많은 곳에서 사용하도록 제작 하였습니다.

It is a single phase auto transformer with AC380V/440V and 220V of output. It has been withdrawn by lead wire manufactured to be used at the place of server dust and humidity and vibration etc. By use of the cover of winding protector.

•Circuit Diagram



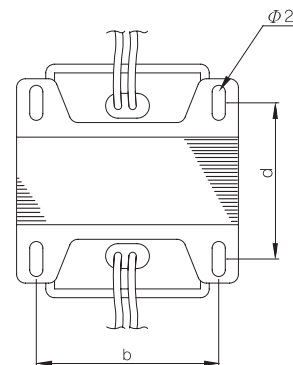
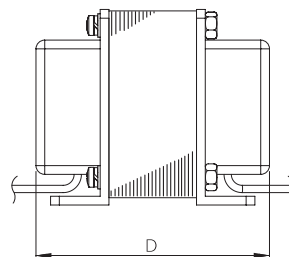
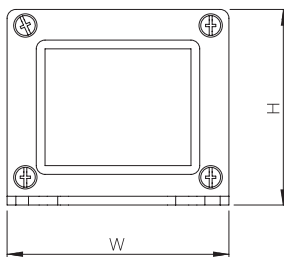
● Specifications

Insulation Class B

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)						SUITABLE WIRE		WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	b	d	Ø2	PRI.	SEC.	
WYAU-75DWE	WE	0-380-440 흑(BLACK) 녹(GREEN) 갈(BROWN)	0-220 흑(BLACK) 적(RED)	75	78	68	81	64	54	4 x 11	0.75mm ²	0.75mm ²	1.30
WYAU-100DWE				100	78	68	86	64	59	4 x 11			1.60
WYAU-150DWE				150	89	75	101	76.5	67.5	5 x 14			1.95
WYAU-200DWE				200	99	85	103	79	70	5 x 14			2.27
WYAU-300DWE				300	99	85	113	79	80	5 x 15			3.20
WYAU-500DWE				500	118	99	115	102	78	5 x 12			4.78
WYAU-1KDWE				1K	137	115	119	116	81	5 x 12			6.89

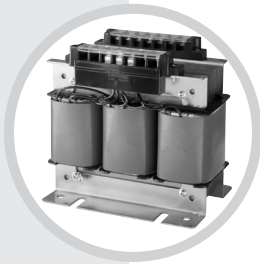
● Dimension

• WP Type

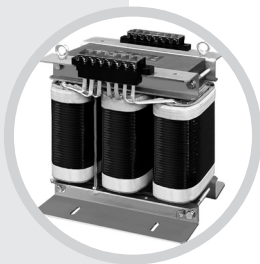


3Ø 트랜스포머

3Ø Auto. & Isolation Transformer



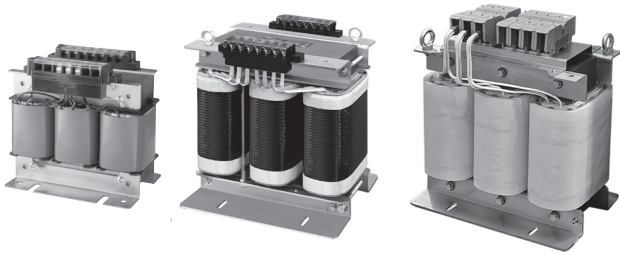
- 3Ø 복권 트랜스포머
3Ø-Isolation Transformer



- 3Ø 단권 트랜스포머
3Ø-Auto Transformer

WY3P-W Series (삼상복권)

CE RoHS



* 위 제품은 1차, 2차 단일 TAP 기준 제작시
이미지입니다. 다수 TAP 적용시 형상이 변경될수
있습니다.(터미널 블록 고정식 단자대 적용)

삼상 복권형으로 입력 AC 380V.440V 에 Y결선, 출력 AC220V에 Δ 결선형으로 제작
하였으며, 소형부터 대형까지 전문화된 제품으로 단자대(Terminal Block)등으로 제작
하였으며 전 모델에 대하여 **CE**를 획득하여 소비자의 선택의 폭을 다양화 하였으며
절연방식은 B종 혹은 H종으로 제작합니다.

This transformer is three phase isolation transformer and input voltage
is AC380V, 440V Y connection, output voltage is AC220V delta
connection. it has terminal block system and Insulation class is B or H.
also acquired **CE** certification all model from small to large capacity.

·100VA~5KVA Insulation Class B
·7.5KVA~400KVA Insulation Class H

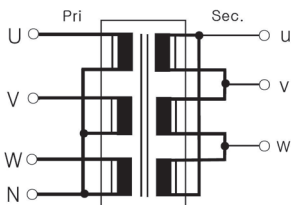
Specifications

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)									WEIGHT (kg)	
		PRI.(V)	SEC.(V)		W	H	D	b	d	e	Ø2	M			Type
												Pri.	Sec.		
• 3P 380V · 440V Line → 220V Line Double Winding Series (복권형)															
WY3P－100W	W3PT	 380－440	 220	100	140	127	87	103	45	10	5.5 x 10	M4	M4	A	2.6
WY3P－200W				200	140	130	100	103	60	10	5.5 x 15	M4	M4		5.0
WY3P－300W				300	155	145	108	104	90	10	5.5 x 15	M4	M4		6.0
WY3P－500W				500	190	180	105	130	90	10	5 x 15	M4	M4		8.0
WY3P－1KW				1K	195	180	126	130	109	10	5 x 15	M4	M4		13.0
WY3P－1.5KW				1.5K	240	210	145	120	115	10	10 x 20	M4	M4		18.6
WY3P－2KW				2K	240	210	145	120	115	10	10 x 20	M4	M4		20.0
WY3P－3KW				3K	275	250	175	120	130	10	10 x 20	M4	M4		30.5
WY3P－5KW				5K	330	290	190	180	160	10	10 x 20	M4	M4		45.0
WY3P－7.5KW	W3PT	 380－440	 220	7.5K	330	290	215	180	185	10	10 x 20	M4	M4	A	59.0
WY3P－10KW				10K	375	319.5	236	180	216	16	12 x 20	M4	M4		73.5
WY3P－15KW				15K	390	342	236	180	216	16	12 x 20	M6	M6		92.0
WY3P－20KW				20K	422	374	260	205	196	16	14 x 40	M6	M6	B	127.0
WY3P－30KW				30K	435	484	270	225	212	20	11 x 40	M6	M6		149.0
WY3P－40KW				40K	480	543	276	240	206	－	13 x 27	M6	M8		175.0
WY3P－50KW				50K	483	543	296	240	226	－	13 x 27	M6	M8		192.0
WY3P－75KW				75K	545	590	306	340	236	－	13 x 27	M8	M10		272.0
WY3P－100KW				100K	590	610	350	420	280	－	13 x 27	M8	M10		336.0
WY3P－120KW	W3PT	 380 or 440	 220	120K	620	640	530	500	275	－	13 x 27	－	－	－	500.0
WY3P－150KW				150K	690	690	600	500	275	－	16x26	－	－	－	600.0
WY3P－200KW				200K	750	750	650	500	295	－	13 x 27	－	－	－	750.0
WY3P－250KW				250K	820	790	700	500	295	－	13 x 27	－	－	－	900.0
WY3P－300KW				300K	820	790	700	500	295	－	13 x 27	－	－	－	950.0
WY3P－350KW				350K	870	950	750	500	315	－	13 x 27	－	－	－	1,300.0
WY3P－400KW				400K	910	1000	800	500	315	－	13 x 27	－	－	－	1,400.0

※ 3KVA 이상 " I " Bolt 부착 (Attach an " I " bolt for 3KVA or larger)

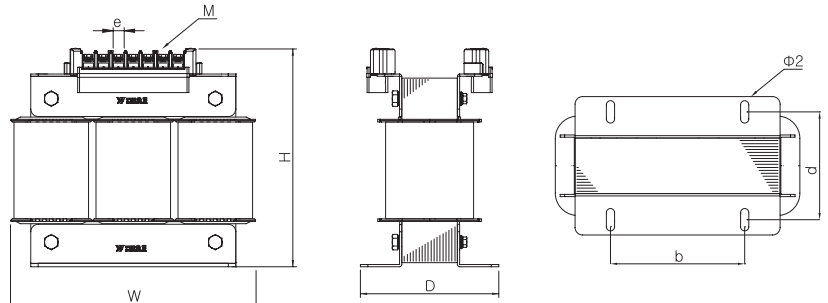
※ 120KVA ~ 400KVA, 50Hz 주문시 외형 사이즈가 상이할 수 있으니 본사로 문의 바랍니다.

Circuit Diagram

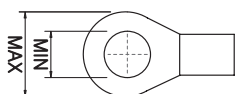


Dimension

• A Type

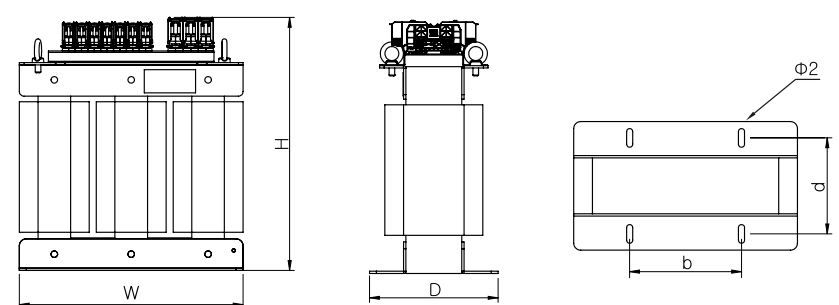


Terminal



100VA ~ 10kVA	Max 9, Min 4
15 ~ 30kVA	Max 15, Min 6
40 ~ 100kVA	M6 Max 23, Min 6
	M8 Max 28, Min 8
	M10 Max 39, Min 10
150kVA	Max 19, Min 8

• B Type

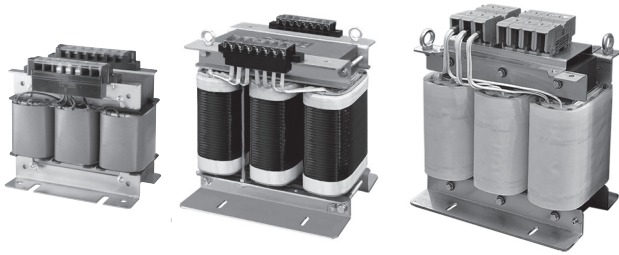


TRANSFORMER

WYES®
산업용변압기

WY3P-AU Series (삼상단권)

CE RoHS



* 위 제품은 1차, 2차 단일 TAP 기준 제작시
이미지입니다. 다수 TAP 적용시 형상이 변경될수
있습니다.(터미널 블록 고정식 단자대 적용)

삼상 단권형으로 입력 AC 380V, 440V 출력 AC 220V로 복권형에 비해
1, 2차 구분없이 1개의 권선에서 Tap을 인출한 방식으로 결선은 Y 결선으
로 되어있으며 단자대(Terminal Block)등으로 제작 되었습니다.

This transformer inputs is AC 380V, 440V and output is
AC220V as three phase auto transformer Y connection
system. it became tapped input and output from same single
winding. it has terminal block for easy wiring work.

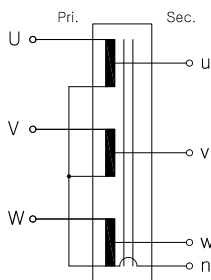
Specifications

·200VA~10KVA Insulation Class B
·15KVA~300KVA Insulation Class H

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)										WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	b	d	e	Ø2	M		Type	
												Pri.	Sec.		
• 3P380V · 440V Line → 220V Line Single winding Series(단권형)															
WY3P-200AU	W3PT		N-220-380-440	200	135	132	86	102	65	10	5.5 x 10	M4	M4	A	2.60
WY3P-300AU				300	140	130	100	103	60	10	5.5 x 15	M4	M4		5.76
WY3P-500AU				500	140	130	105	104	66	10	5.5 x 10	M4	M4		7.20
WY3P-1KAU				1K	190	180	105	130	90	10	5 x 15	M4	M4		8.00
WY3P-2KAU				2K	195	180	126	130	99	10	5 x 15	M4	M4		13.00
WY3P-3KAU				3K	240	210	145	120	115	10	10 x 30	M4	M4		19.20
WY3P-5KAU				5K	275	250	175	120	130	10	10 x 20	M4	M4		32.00
WY3P-7.5KAU				7.5K	275	250	175	120	130	10	10 x 20	M4	M4		36.00
WY3P-10KAU				10K	330	290	190	180	160	10	10 x 20	M4	M4		46.00
WY3P-15KAU	W3PT		N-220-380-440	15K	330	290	215	180	185	10	10 x 20	M4	M4	A	59.00
WY3P-20KAU				20K	375	319.5	236	180	208	16	10 x 20	M4	M4		77.00
WY3P-30KAU				30K	390	330	230	180	205	16	12 x 25	M6	M6		92.00
WY3P-40KAU				40K	430	390	260	205	195	20	13 x 40	M8	M8		126.00
WY3P-50KAU				50K	450	450	330	225	210	20	10 x 40	M8	M8		147.00
WY3P-75KAU				75K	460	549	276	240	210	-	13 x 27	M8	M10	B	137.00
WY3P-100KAU				100K	483	548	296	240	226	-	13 x 27	M8	M10		192.00
WY3P-150KAU				150K	545	543	306	340	236	-	13	M8	M8	A	272.00
WY3P-200KAU				200K	650	700	400	420	220	-	16	-	-		336.00
WY3P-300KAU				300K	710	800	500	500	270	-	16	-	-		530.00

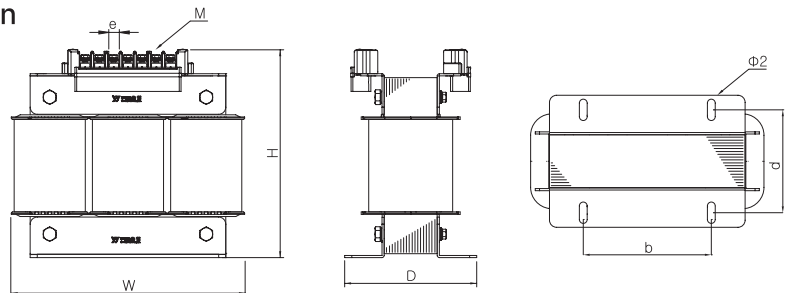
※ 3KVA 이상 "I" Bolt 부착 (Attach an "I" bolt for 3KVA or larger)

Circuit Diagram

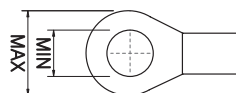


Dimension

· A Type

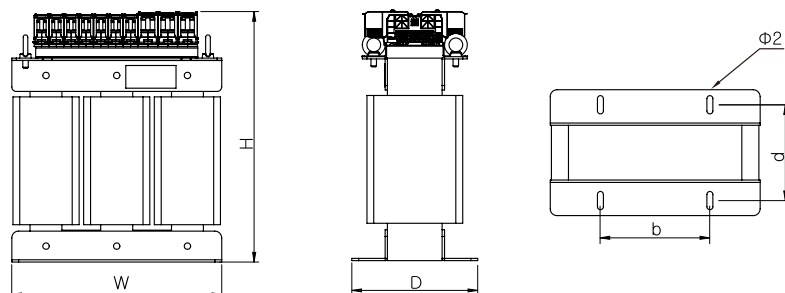


Terminal



100VA ~ 10kVA	Max 9, Min 4
15 ~ 30kVA	Max 15, Min 6
40 ~ 50kVA	Max 19, Min 8
75 ~ 100kVA	M8 Max 28, Min 8 M10 Max 39, Min 10
150kVA	Max 19, Min 8

· B Type



TRANS=인덕터
REACTOR=리액터
SSR=무정전압릴레이
TPR=전력조정기
SMP=스위칭파워
N/F=노이즈필터
H/F=하모닉필터
SPD=서지보호기
RELAY=보호계전기
ELDR=LED=광부기
ZCT=영상변류기
METER=판넬메타
CT=CT=전압변성기
SHUNT=선티팬

1Ø, 3Ø 외함형 트랜스포머

1Ø, 3Ø Case Type Transformer



- 1Ø 복권, 단권 케이스형 트랜스포머
1 Phase Isolation & Auto Transformer



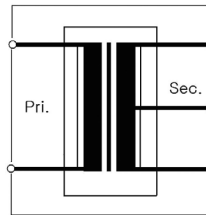
- 3Ø 복권, 단권 외함 케이스형 트랜스포머
3 Phase Isolation & Auto Transformer



단상, 복권형으로 일반 Dry Type으로 Casing화 하여 전면에는 Lamp V-M, A-M, NFB 등을 부착하였으며 작업자의 작업성을 고려하여 뒷면은 Door 식으로 하여 단자대 (Terminal Block)를 부착하여 작업의 편리성을 증대 하였으며 운반이 용이하도록 Panel 에는 운반용 바퀴로 제작 하였습니다.

It is single phase, isolation transformer type and combined Casing is made by general dry type. Lamp V-M, A-M and NFB are affixed at the front. For convenience of the operator, door is made at the back and terminal block is attached to increase the convenience of operation. Caster for transportation is available for easy move.

•Circuit Diagram



● Specifications

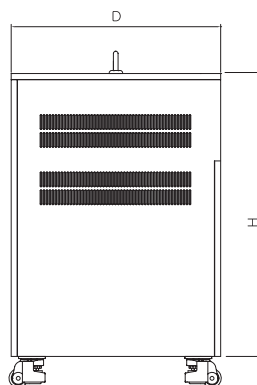
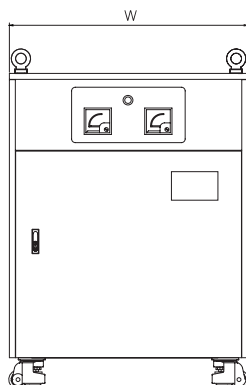
·1KVA~2KVA Insulation Class B
·3KVA~50KVA Insulation Class H

MODEL NO.	SPECIFICATIONS		KVA	DIMENSIONS (mm)			PHASE	RATING VOLTAGE		WEIGHT (kg)
	PRI.(V)	SEC.(V)		W	H	D		PRI.(V)	SEC.(V)	
• 1P 복권형220V → 110V LINE 380V / 440V → 220V LINE										
WY21C-1KA	0-220	0-110	1	240	320	375	1Ø복권식 (DOUBLE WINDING)	220	110	20.0
WY21C-2KA			2							30.0
WY21C-3KA	0-220	0-110	3	350	450	350	1Ø복권식 (DOUBLE WINDING)	220	110	40.0
WY21C-5KA			5	380	460	450				55.0
WY21C-7.5KA			7.5							74.0
WY21C-10KA			10	400	520	480				85.0
WY21C-15KA			15							140.0
WY21C-20KA			20	500	650	500				160.0
WY21C-30KA			30							190.0
WY21C-40KA			40	500	750	550				250.0
WY21C-50KA			50							255.0
WY42C-1KAW	0-380-440	0-110-220-(E)	1	240	320	375	1Ø복권식 (DOUBLE WINDING)	380/440	110/220	20.0
WY42C-2KAW			2							30.0
WY42C-3KAW			3	350	450	350				40.0
WY42C-5KAW			5	380	460	450				55.0
WY42C-7.5KAW			7.5							74.0
WY42C-10KAW			10	400	520	480				85.0
WY42C-15KAW			15							140.0
WY42C-20KAW			20	500	650	500				160.0
WY42C-30KAW			30							190.0
WY42C-40KAW			40	500	750	550				250.0
WY42C-50KAW			50							255.0

※ Order Production : More then 75KVA

● Dimension

• WYC Type



* 부착물: 1Phase 1kVA~3kVA P/L
1Phase 5kVA~50kVA P/L, A, V, NFB

* 주문시 CASE 색상 지정 가능
When ordering, you can select color of case

* 1~7.5kVA 는 상단부 I Bolt(행거)없음
1~7.5kVA don't have I Bolt(Hanger)

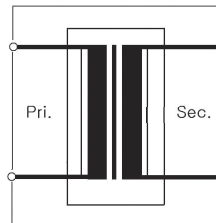


단상, 복권형으로 일반 Dry Type으로 Casing화 하여 전면에는 Lamp,계측기, NFB 등을 부착하였으며 기존 전압, 전류만 계측하는 것을 넘어 전력, 전력량, 전력품질, 온도 등 다양한 동작상태를 계측, 지원하며 실시간 데이터를 485통신으로 상위통신망에 접속이 가능합니다. 사용간 발생할수 있는 전기적 이슈에 대하여 최대 8가지 항목중 2개 요소를 선택하여 알람을 받아볼수 있습니다. 뒷면은 Door 식으로 하여 단자대(Terminal Block)를 부착하여 작업의 편리성을 증대하였으며 운반이 용이하도록 Panel에는 운반용 바퀴로 제작하였습니다.

It is a single-phase, multiple-type casing with a general dry type, and a lamp, measuring instrument, NFB, etc. are attached to the front. In addition to measuring only the existing voltage and current, it measures and supports various operating conditions such as power, wattage, power quality, and temperature in real time. Data can be connected to a higher-level communication network through 485 communication.

You can receive alarms for electrical issues that may occur during use by selecting two elements out of a maximum of eight. The back side is door-type and a terminal block is attached to increase the convenience of work, and the panel is equipped with transport wheels for easy transportation.

•Circuit Diagram



● Specifications

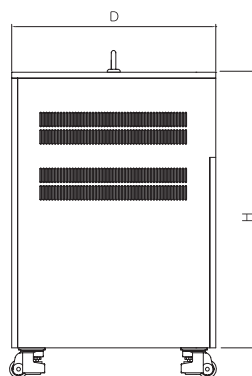
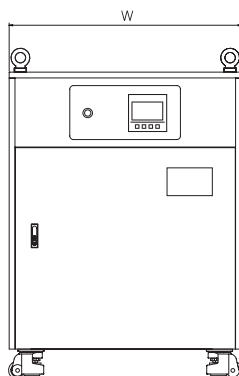
Insulation Class H

MODEL NO.	SPECIFICATIONS		KVA	DIMENSIONS (mm)			PHASE	RATING VOLTAGE		WEIGHT (kg)
	PRI.(V)	SEC.(V)		W	H	D		PRI.(V)	SEC.(V)	
• 1P 복권형 220V → 110V LINE 380V / 440V → 220V LINE										
WY21CM-5KA	0-220	0-110	5	380	450	460	1Ø복권식 (DOUBLE WINDING)	220	110	55.0
WY21CM-7.5KA			7.5							74.0
WY21CM-10KA			10	400	520	480				85.0
WY21CM-15KA			15							140.0
WY21CM-20KA			20	500	650	500				160.0
WY21CM-30KA			30							190.0
WY21CM-40KA			40	500	750	550				250.0
WY21CM-50KA			50							255.0
WY42CM-5KAW	0-380-440	0-220-(E)	5	380	460	450		380/440	220	55.0
WY42CM-7.5KAW			7.5							74.0
WY42CM-10KAW			10	400	520	480				85.0
WY42CM-15KAW			15							140.0
WY42CM-20KAW			20	500	650	500				160.0
WY42CM-30KAW			30							190.0
WY42CM-40KAW			40	500	750	550				250.0
WY42CM-50KAW			50							255.0

※온도검출 Option (PT 100Ω)

● Dimension

• WYCM Type



* 부착물: 1Phase 5kVA~50kVA P/L, Meter, NFB

* 주문시 CASE 색상 지정 가능
When ordering, you can select color of case

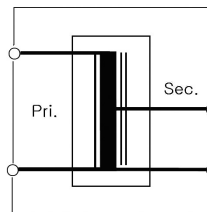
* 5~7.5kVA 는 상단부 I Bolt(행거)없음
5~7.5kVA don't have I Bolt(Hanger)



단상, 단권형으로 일반 Dry Type으로 Casing화 하여 전면에는 Lamp V-M, A-M, NFB 등을 부착하였으며 작업자의 작업성을 고려하여 뒷면은 Door 식으로 하여 단자대 (Terminal Block)를 부착하여 작업의 편리성을 증대 하였으며 운반이 용이하도록 Panel 에는 운반용 바퀴로 제작 하였습니다.

It is single phase, auto transformer and combined Casing is made by general dry type. Lamp V-M, A-M and NFB are affixed at the front. For convenience of the operator, door is made at the back and terminal block is attached to increase the convenience of operation. Caster for transportation is available for easy move.

•Circuit Diagram



● Specifications

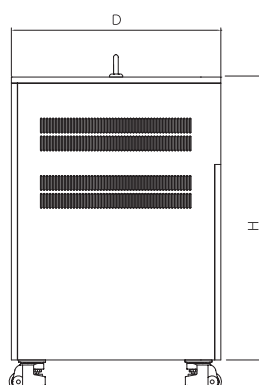
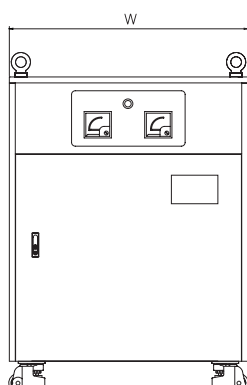
·2KVA~3KVA Insulation Class B
·5KVA~50KVA Insulation Class H

MODEL NO.	SPECIFICATIONS		KVA	DIMENSIONS (mm)			PHASE	RATING VOLTAGE		WEIGHT (kg)
	PRI.(V)	SEC.(V)		W	H	D		PRI.(V)	SEC.(V)	
• 1P 단권형220V → 110V LINE 380V / 440V → 220V LINE										
WY21C-2KD	0-110-220 (0V : COMMON)		2	240	320	375	1Ø단권식 (SINGLE WINDING)	220	110	20.0
WY21C-3KD			3							26.0
WY21C-5KD			5	350	450	350				35.0
WY21C-7.5KD	0-110-220 (0V : COMMON)		7.5				1Ø단권식 (SINGLE WINDING)	220	110	50.0
WY21C-10KD			10	380	460	450				55.0
WY21C-15KD			15							74.0
WY21C-20KD			20							85.0
WY21C-30KD			30							105.0
WY21C-40KD			40	400	520	480				140.0
WY21C-50KD			50							180.0
WY42C-2KDW			0-220-380-440 (0V : COMMON)		2	240				320
WY42C-3KDW	3						26.0			
WY42C-5KDW	5	350			450	350	35.0			
WY42C-7.5KDW	7.5						50.0			
WY42C-10KDW	10	380			550	430	55.0			
WY42C-15KDW	15						74.0			
WY42C-20KDW	20						85.0			
WY42C-30KDW	30						105.0			
WY42C-40KDW	40	400			520	480	140.0			
WY42C-50KDW	50						180.0			

※ Order Production : More then 75KVA

● Dimension

• WYC Type



* 부착물: 1Phase 1kVA~5kVA P/L
1Phase 7.5kVA~50kVA P/L ,A, V, NFB

* 주문시 CASE 색상 지정 가능
When odering, you can select color of cas

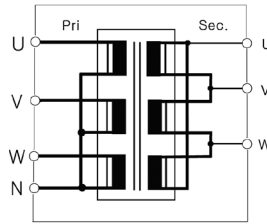
* 2~15kVA 는 상단부 I Bolt(행거)없음
2~15kVA don't have I Bolt(Hanger)



삼상, 복권형으로 일반 Dry Type으로 Casing화 하여 전면에는 Lamp V-M, A-M, NFB 등을 부착하였으며 작업자의 작업성을 고려하여 뒷면은 Door 식으로 하여 단자대 (Terminal Block)를 부착하여 작업의 편리성을 증대 하였으며 운반이 용이하도록 Panel에는 운반용 바퀴로 제작 하였습니다.

It is three phase, isolation transformer type and combined Casing is made by general dry type. Lamp V-M, A-M and NFB are affixed at the front. For convenience of the operator, door is made at the back and terminal block is attached to increase the convenience of operation. Caster for transportation is available for easy move.

•Circuit Diagram



● Specifications

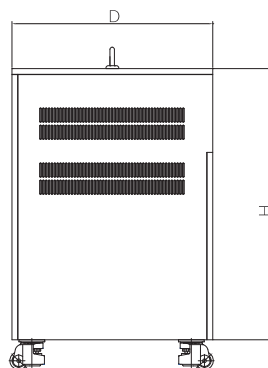
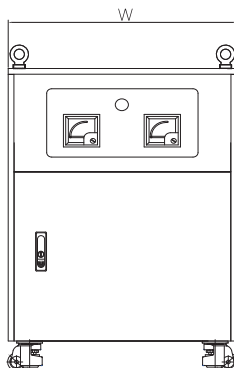
•1KVA~5KVA Insulation Class B
•7.5KVA~400KVA Insulation Class H

MODEL NO.	SPECIFICATIONS		KVA	DIMENSIONS (mm)			PHASE	RATING VOLTAGE		WEIGHT (kg)
	PRI.(V)	SEC.(V)		W	H	D		PRI.(V)	SEC.(V)	
• 3P 복권형 380V / 440V → 220V LINE										
WY3PC-1KW	380-440 Y - n	220 △	1	244	370	285	3Ø복권식 (DOUBLE WINDING)	380/440	220	30.0
WY3PC-2KW			2	300	350	300				40.0
WY3PC-3KW			3	350	450	350				50.0
WY3PC-5KW			5	380	550	430				71.0
WY3PC-7.5KW	380-440 Y - n	220 △	7.5	380	550	430	3Ø복권식 (DOUBLE WINDING)	380/440	220	84.0
WY3PC-10KW			10	430	550	450				98.0
WY3PC-15KW			15	450	600	450				126.0
WY3PC-20KW			20	500	650	530				167.0
WY3PC-30KW			30	550	700	530				191.0
WY3PC-40KW			40	600	800	560				226.0
WY3PC-50KW			50	600	800	560				275.0
WY3PC-75KW			75	650	850	600				360.0
WY3PC-100KW			100	750	850	650				430.0
WY3PC-120KW	380or440 Y - n	220 △	120	850	1050	800	3Ø복권식 (DOUBLE WINDING)	380or440	220	600.0
WY3PC-150KW			150	850	1050	800				700.0
WY3PC-200KW			200	1000	1200	850				950.0
WY3PC-250KW			250	1000	1200	1000				1,100.0
WY3PC-300KW			300	1000	1200	1000				1,200.0
WY3PC-350KW			350	1050	1400	1050				1,600.0
WY3PC-400KW			400	1050	1400	1050				1,750.0

* 120KVA ~ 400KVA, 50Hz 주문시 외형 사이즈가 상이할 수 있으니 본사로 문의 바랍니다.

● Dimension

• WYC Type



* 부착물: 3Phase 1kVA~3kVA P/L
3Phase 5kVA~100kVA P/L, A, V, NFB

* 주문시 CASE 색상 지정 가능
When ordering, you can select color of case

* 1~10kVA 는 상단부 I Bolt(행거)없음
1~10kVA don't have I Bolt(Hanger)

TRANS-NECT
리액터
무점접합레이
전력조정기
스위칭파워
노이즈필터
하모닉필터
서지보호기
보호계전기
누전경보기
영상변류기
판넬메타
계기용변성기
선풍팬



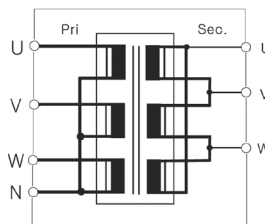
삼상, 복권형으로 일반 Dry Type으로 Casing화 하여 전면에는 Lamp, 계측기, NFB 등을 부착하였으며 기존 전압, 전류만 계측하는 것을 넘어 전력, 전력량, 전력품질, 온도 등 다양한 동작상태를 계측, 지원하며 실시간 데이터를 485통신으로 상위통신망에 접속이 가능합니다.

사용간 발생할수 있는 전기적 이슈에 대하여 최대 8가지 항목중 2개 요소를 선택하여 알람을 받아볼 수 있습니다. 뒷면은 Door 식으로 하여 단자대(Terminal Block)를 부착하여 작업의 편리성을 증대 하였으며 운반이 용이하도록 Panel에는 운반용 바퀴로 제작하였습니다

It is a three-phase, double-circuit type, Cased as a general dry type, and uses a lamp, measuring instrument, NFB, etc. on the front to operate states such as power, amount of power, power quality, temperature, etc. that exceed the existing voltage and power consumption, and provides data 485 You can connect to a higher-level communication network through communication. When using it, you can select two of up to eight items to receive an alert regarding electrical problems that occur.

The back is a door type, and the panel is made with storage wheels to facilitate the installation of a terminal block at the bottom.

•Circuit Diagram



● Specifications

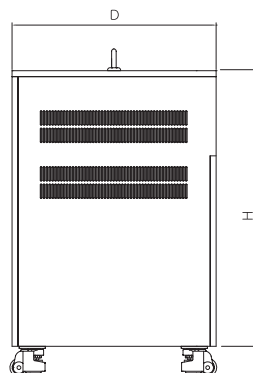
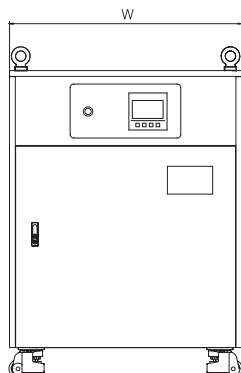
·5KVA Insulation Class B
·7.5KVA~100KVA Insulation Class H

MODEL NO.	SPECIFICATIONS		KVA	DIMENSIONS (mm)			PHASE	RATING VOLTAGE		WEIGHT (kg)
	PRI.(V)	SEC.(V)		W	H	D		PRI.(V)	SEC.(V)	
• 3P 복권형 380V / 440V → 220V LINE										
WY3PCM-5KW	380-440 Y - n	220 △	5	380	550	430	3Ø복권식 (DOUBLE WINDING)	380/440	220	71.0
WY3PCM-7.5KW	380-440 Y - n	220 △	7.5	380	550	430	3Ø복권식 (DOUBLE WINDING)	380/440	220	84.0
WY3PCM-10KW			10	430	550	450				98.0
WY3PCM-15KW			15	450	600	450				126.0
WY3PCM-20KW			20	500	650	530				167.0
WY3PCM-30KW			30	550	700	530				191.0
WY3PCM-40KW			40	600	800	560				226.0
WY3PCM-50KW			50	600	800	560				275.0
WY3PCM-75KW			75	650	850	600				360.0
WY3PCM-100KW			100	750	850	650				430.0

※온도검출 Option (PT 100Ω)

● Dimension

• WYCM Type



* 부착물: 3Phase 5kVA~100kVA P/L, Meter, NFB

* 주문시 CASE 색상 지정 가능
When ordering, you can select color of case

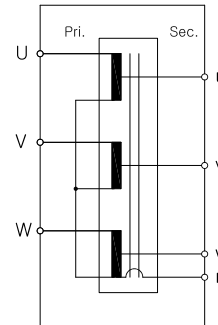
* 5~10kVA 는 상단부 I Bolt(행거)없음
5~10kVA don't have I Bolt(Hanger)



삼상, 단권형으로 일반 Dry Type으로 Casing화 하여 전면에는 Lamp V-M, A-M, NFB 등을 부착하였으며 작업자의 작업성을 고려하여 뒷면은 Door 식으로 하여 단자대 (Terminal Block)를 부착하여 작업의 편리성을 증대 하였으며 운반이 용이하도록 Panel에는 운반용 바퀴로 제작 하였습니다.

It is three phase, auto transformer type and combined Casing is made by general dry type. Lamp V-M, A-M and NFB are affixed at the front. For convenience of the operator, door is made at the back and terminal block is attached to increase the convenience of operation. Caster for transportation is available for easy move.

• Circuit Diagram



Specifications

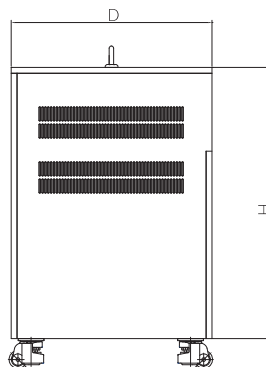
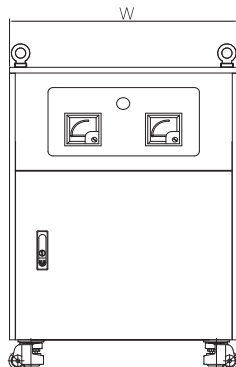
• 2KVA ~ 10KVA Insulation Class B
• 15KVA ~ 200KVA Insulation Class H

MODEL NO.	SPECIFICATIONS		KVA	DIMENSIONS (mm)			PHASE	RATING VOLTAGE		WEIGHT (kg)
	PRI.(V)	SEC.(V)		W	H	D		PRI.(V)	SEC.(V)	
• 3P 단권형 380V / 440V → 220V LINE										
WY3PC-2KAU	220-380-440 Y - n		2	240	320	375	3Ø단권식 (SINGLE WINDING)	380/440	220	30.0
WY3PC-3KAU			3	300	350	300				33.0
WY3PC-5KAU			5	350	450	350				36.0
WY3PC-7.5KAU			7.5	380	550	430				43.0
WY3PC-10KAU			10	380	550	430				64.0
WY3PC-15KAU	220-380-440 Y - n		15	380	550	430	3Ø단권식 (SINGLE WINDING)	380/440	220	73.0
WY3PC-20KAU			20	430	550	450				87.0
WY3PC-30KAU			30	450	600	450				95.0
WY3PC-40KAU			40	500	650	530				166.0
WY3PC-50KAU			50	550	700	530				190.0
WY3PC-75KAU			75	600	800	560				200.0
WY3PC-100KAU			100	600	800	560				230.0
WY3PC-150KAU			150	650	850	600				312.0
WY3PC-200KAU			200	750	850	650				390.0

※ Order Production : More then 150KVA

Dimension

• WYC Type



* 부착물: 3Phase 1kVA~3kVA P/L
3Phase 5kVA~100kVA P/L, A, V, NFB

* 주문시 CASE 색상 지정 가능
When ordering, you can select color of case

* 2~20kVA 는 상단부 I Bolt(행거)없음
2~20kVA don't have I Bolt(Hanger)

WYCM Series

● 계측요소

전류계측(TRMS)	계측오차	1% rdg. $\pm$ 2 dgt
전압계측(TRMS)	계측오차	0.2% rdg. $\pm$ 2 dgt.(
전력계측	계측범위	0 ~ 900.0 kW/kvar/kVA
	Accuracy (W, VA)	1% rdg.
	Accuracy (var)	2% rdg.
역률계측	Accuracy	0.5% rdg. $\pm$ 1 dgt.
주파수	Measuring range	45 ~ 65 Hz
	Accuracy	0.1% rdg. $\pm$ 1 dgt.
전력량	Display	0.000 ~ 999,999.999 M[mega]
	Real energy (IEC 62053-22)	Class 0.5 S
	Reactive energy (IEC 62053-23)	Class 2
고조파 계측	Display	0 ~ 100%
	Measuring range	1 ~ 48th
온도	내부온도	-50 ~ 200°C
	변압기 S상 PT100 (옵션선택사항)	-50 ~ 200°C

* 온도 외함내 온도를 측정할 수 있는 기능을 공급하며, 옵션 선택을 통해 변압기 온도 측정 기능도 지원 가능함(옵션 선택사항)

● 알람설정

- 아래의 8가지 항목 중 2요소를 선택하여 AL1, AL2 기능을 활용 할 수 있습니다.
- 공장 출하시는 변압기의 과온(O.T), 과전류(O.C)가 설정 되어 있습니다.

NO.	설정요소	설정범위	공장출하시 설정값
1	O.T (Over Temp) (옵션선택시 지원)	0~200°C	AL1 : 120°C
2	O.C (Over Current)	정격전류 이내	AL2 : 정격전류의 80%
3	Hz (Frequenct)	$\pm$ 3 Hz	
4	U.V (Under Voltage)	정격전압 이내	
5	O.V (Over Voltage)	정격전압 이내	
6	O.W (Over Watt)	정격 유효전력내	
7	O.var (Over var)	정격 무효전력 이내	
8	O.PF (Over Powerfactor)	PF 0.7~0.98	

● 통신(MODBUS)

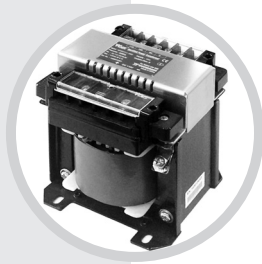
- ModBus-RTU(Remote Terminal Unit) Protocol을 사용합니다.
- ModBus-RTU 프로토콜은 Open Protocol 입니다.
- 컴퓨터 또는 기타 호스트가 Master가 되고 변압기의 계측기가 Slave가 되는 구조를 취합니다.
- Master의 읽기/쓰기 요구에 Slave인 변압기의 계측기가 응답합니다.
- 각각의 Slave 간은 절대로 서로 통신 하지 못합니다.
- Slave가 Master와 통신을 시작 할 수 없습니다.

1Ø DC 출력형 트랜스포머

DC Power Transformer

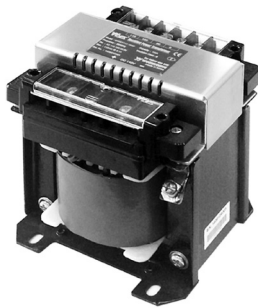
Input : AC 220V

Output : DC12, 24, 110V



DC Power Transformer

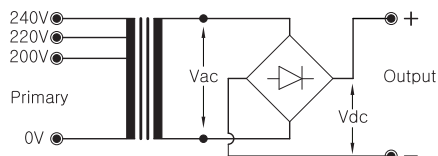
- WYDC—Series



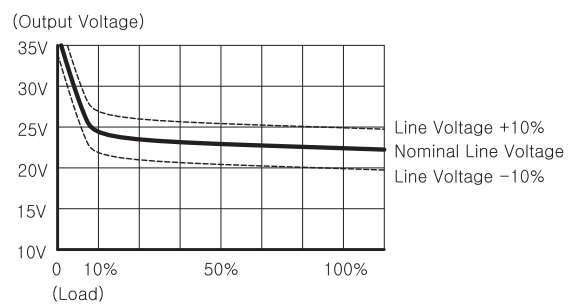
DC Transformer는 입력AC220V, 출력DC24V 또는 DC110V로, Transformer에 정류회로를 일체형으로 제작하여 모터의 클러치, 조작용 램프, 릴레이 등에 사용됩니다.

The DC transformer features input of AC220V and output of DC24V and 100V. It has rectification circuit and the smoothing circuit and is used for clutches, lamps and relays.

● Component Symbol



● Load Regulation Curve



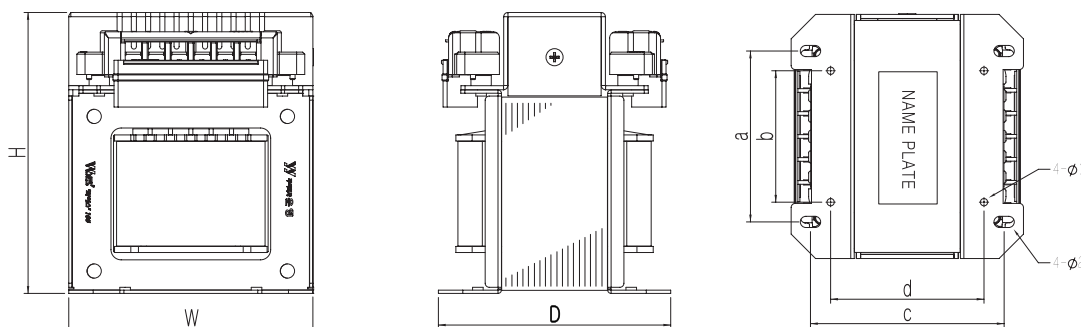
● Specification

Insulation Class B

MODEL NO.	SPECIFICATIONS		CAPA. (VA)	CURR. (A)	DIMENSIONS (mm)									WEIGHT (kg)
	PRI.(V)	SEC.(V)			W	H	D	a	b	c	d	Ø1	Ø2	
WYDC-22450AP	0-220	DC 24V	50	2.1A	80	100	87	53.4	42	66.5	53.5	Ø3.6	5 x 12	1.75
WYDC-224100AP			100	4.15A	103	119	107	72	53.8	85.5	62.5	Ø3.6	6 x 12	2.70
WYDC-224150AP			150	6.25A	110	130	104	76.5	57.9	87.2	65.4	Ø3.6	5.5 x 10	3.85
WYDC-224200AP			200	8.33A	120	138	114	84	64.9	95.2	75.4	Ø3.6	5.5 x 10	5.12
WYDC-224300AP			300	12.5A	140	156	123	97.9	83	107.7	81.9	Ø3.6	6 x 12	7.30
WYDC-211500AP		DC 110V	500	4.5A	140	156	123	97.9	83	107.7	81.9	Ø3.6	6 x 12	7.30
WYDC-2111KAP			1K	9.1A	160	183	156	114	95.9	133.5	101.7	Ø3.6	6 x 13	12.60

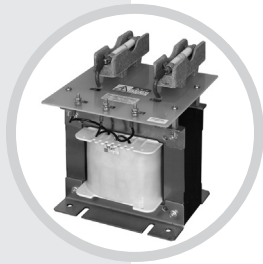
※ 기타사양은 주문에 의함.

● Dimension

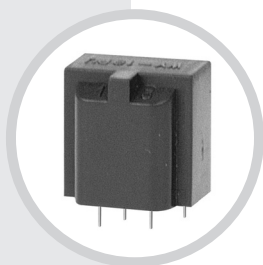
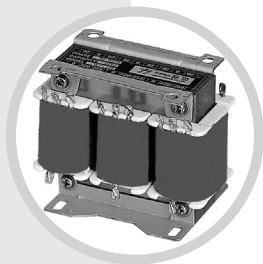


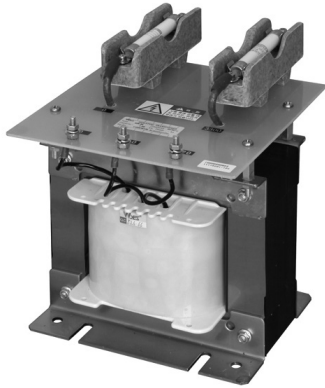
1Ø 고압 및 센서 트랜스포머

High Voltage & Sensor Type Transformer



- 1Ø 고압(3.3kV~6.6kV) 트랜스포머
High Voltage Type Transformer
- 동기형 위상 트랜스포머
Synchro Phase Control Transformer
- 펄스 트랜스포머
Pulse Transformer
- 전류센서(CT)
Current Transformer (Sensor)

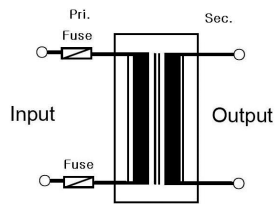




단상 복권형이며 계기용 P.T로서 입력 AC 3300V, 6600V 출력 AC110, 220V로서 상단에는 회로 보호용 고압 Fuse를 부착하였으며, Coil 부분은 Molding 처리하여 고압측과 저압측의 소손을 방지한 제품으로 제작 하였습니다.

It is a single phase, isolation transformer and P.T for meter with AC3300V, 6600V Input and AC110, 220V of output. High Voltage fuse to protect circuit has been affixed to the top. Winding is treated by molding in order to prevent damage from high Voltage side and low Voltage side.

•Circuit Diagram



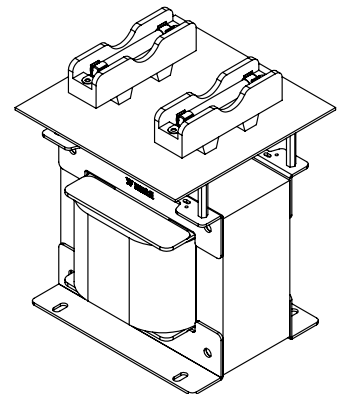
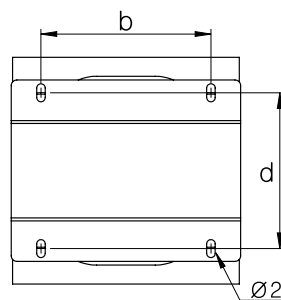
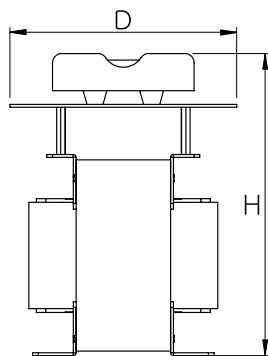
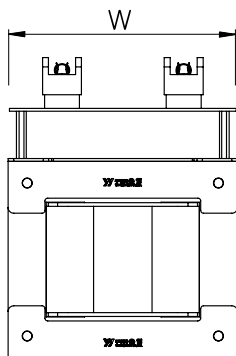
● Specifications

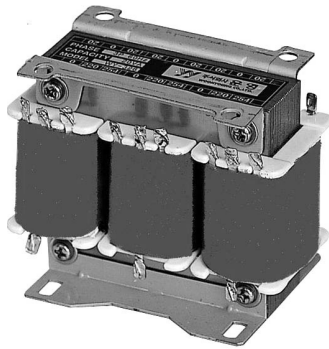
Insulation Class H

MODEL NO.	TYPE	SPECIFICATIONS		KVA	DIMENSIONS (mm)						WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	b	d	Ø2	
WYPT-3305H	WPT	3300	0-110-220	0.5	190	250	230	134	142	7 x 13	22
WYPT-3310H				1.0	230	295	220	120	135	7 x 15	28
WYPT-3315H				1.5	230	295	230	120	161	7 x 15	32
WYPT-3320H				2.0	240	320	240	180	165	9 x 20	43
WYPT-3330H				3.0	280	342	270	180	170	9 x 20	52
WYPT-3350H				5.0	280	342	270	180	170	9 x 20	55
WYPT-6610H		6600		1.0	240	320	240	180	165	9 x 20	40
WYPT-6615H				1.5	240	320	240	180	165	9 x 20	43
WYPT-6620H				2.0	280	342	270	180	170	9 x 20	52
WYPT-6630H				3.0	280	342	270	180	170	9 x 20	55
WYPT-6650H				5.0	310	377	250	219	184	11 x 30	96

● Dimension

• WYPT Type

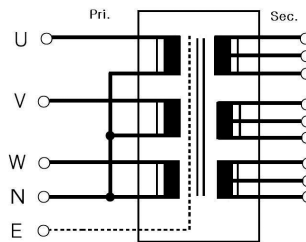




삼상 복권형으로 동기형 Transformer로서 위상제어에 종래 단상 3대를 결선하여 사용하던 방법을 1대의 3상으로 DC Motor 동기제어를 할 수 있도록 한 제품으로 설계자의 작업성을 극대화 한 제품으로 땀식(Soldering Type)으로 제작 하였습니다.

It is a three phase isolation transformer Synchronous transformer. Unlike existing method to Connection of 3 single phases, one piece of three phases controls DC motor so that efficiency of operation is maximized. It is a type of soldering terminal system.

•Circuit Diagram



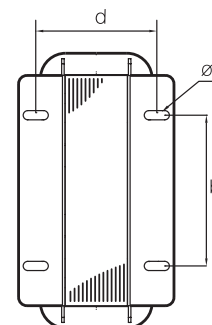
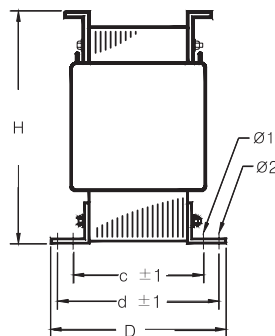
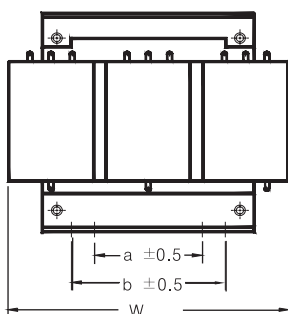
● Specifications

Insulation Class B

MODEL NO.	TYPE	SPECIFICATIONS		VA	DIMENSIONS (mm)						WEIGHT (kg)
		PRI.(V)	SEC.(V)		W	H	D	b	d	Ø2	
WY3P-325	3PWO	220	20-0-20	20	98	80	80	65	57	5 x 8	1.80
WY3P-326		380-440									
WY3P-327		220-440									

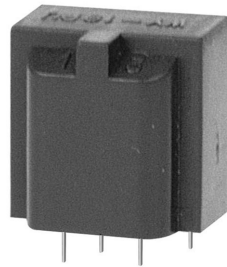
● Dimension

• 3PWO Type



Isolation형 1:1 Pulse Transformer로 Case에 Epoxy Molding하여 절연 처리를 한 제품으로 PCB에 삽입하도록 제작된 제품입니다.

It is 1:1 pulse transformer with isolation type. Epoxy molding is made at the case to insulate and it can be inserted to PCB.

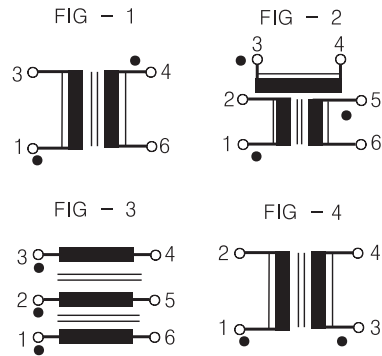


19P TYPE



13P TYPE

• Component Symbol



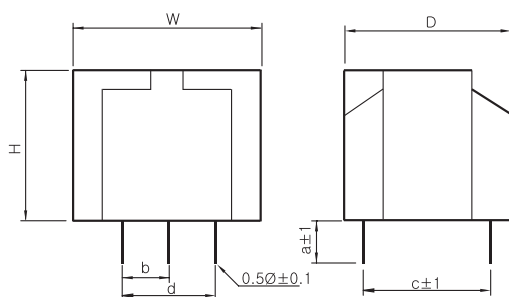
- 표시는 권선 Start (극성)
- Dot (Start Marking)

● Specifications

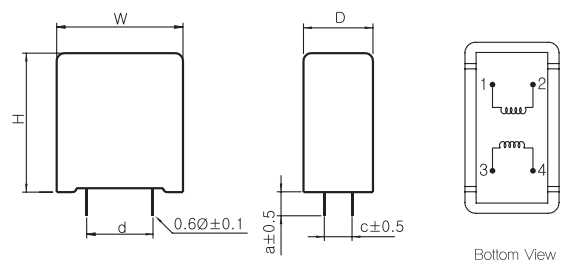
MODEL NO.	TURN RATIO	PRI. INDUCTANCE (mH MIN)	LEAKAGE IMPEDANCE (mH MAX)	CAPACITANCE (pF. TYP)	START NO.	DCR (ΩMAX)	DIMENSIONS (mm)							Fig	WEIGHT (kg)
							W	H	D	a	b	c	d		
WY-19PB	1:1	50	6.0	1500	1.4	4.5-4.5	190	250	235	134	142	134	142	1	20
WY-19PBB	1:1:1	40	6.0	1500	1.3.5	6-6-6								2	20
WY-19PAA	1:1:1	35	6.0	1500	1.2.3	6-6-6								3	20
WY-13PB	1:1	8	0.1	350	1.3	0.15-0.15	245	335	255	180	178	180	178	4	5

● Dimension

• 19P Type



• 13P Type

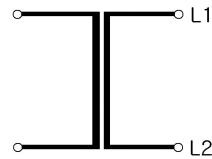




전류형 C.T(Current Transformer)로서 Control에 문제되었던 것을 2차 권선을 이용하여 포화 되는것을 억제하였으며 1차 Wire는 관통형으로 소비자의 요구에 충족하도록 다양화한 제품입니다.

It is a current transformer and restrict saturation resulted from general which causes the problem of control by use of ring core as much as possible. Primary wire is a pass through type which meets customer needs with variety.

•Component Symbol



● Specifications

MODEL NO.	TURN	A	Ω	DIMENSIONS (mm)								C . T (Cable thought type)	C . T (turn ratio type)
				A	B	C	D	E	F	G	H		
WY-C30	300	0.45	1.8	62	57	43	52	5 x 3	17 x 17	25	41	$I_2 = I_1 / N_2$ $I_1 = 1\text{차 Current}$ $I_2 = 2\text{차 Current}$ $N_2 = 2\text{차권선수}$	$I_2 = I_1 \times N_1 / N_2$ $I_1 = 1\text{차 Current}$ $I_2 = 2\text{차 Current}$ $N_1 = 1\text{차통과권선수}$ $N_2 = 2\text{차권선수}$
WY-C50	500	0.38	5										
WY-C100	1000	0.15	20										
WY-C200	2000	0.076	90										
WY-C300	3000	0.060	180										
WY-C400	4000	0.046	310										
WY-C500	5000	0.034	490										

● Dimension

• CP Type

