

TRANSFORMERS & INDUCTORS



MYRRA

*...Of course !*

# TECHNICAL INFORMATION

## RATED PRIMARY VOLTAGE (V)

This is the supply voltage assigned to the transformer by the manufacturer.

## RATED SECONDARY VOLTAGE (V)

This is the secondary output voltage assigned to the transformer when supplied with the rated primary voltage, frequency range, rated secondary current, all assigned by the manufacturer for the specified operating conditions of the transformer.

## RATED POWER (VA)

The specified power levels in this catalogue are the secondary power levels, in other words, those available when the transformer is loaded. It is the product of the RMS rated secondary voltage by the RMS rated current. If the transformer has more than one output winding, the rated power denotes the maximum sum of the products of RMS rated secondary voltage by the RMS rated secondary current, respectively. This rated power is defined for rated ambient temperature conditions.

example :  $P = 3,2 \text{ VA}$  ta 70/B

The transformer can deliver 3.2VA at maximum ambient (70°C), the load consisting of a resistor load defined by  $R(\text{load}) = U(\text{sec})^2/P$  (assigned  $U$  sec &  $P$  values), heating does not exceed the relevant limit for Class B components used in this construction.

**NOTE :** When the transformer is intended to supply DC voltage and current in conjunction with rectifiers and smoothing capacitors, the VA power required from the transformer is far higher than the  $U(\text{DC})$  and  $I(\text{DC})$  product. To help you to determine the true transformer power, our Technical Department is at your disposal.

## AMBIENT TEMPERATURE (ta)

The maximum temperature at which the transformer may be operated continuously under nominal conditions of use. It is the air temperature measured close to the transformer after thermal stabilization when operating at rated conditions.

## HEATING

The increase of the winding temperature when operating at rated conditions and maximum ambient temperature. The heating must be determined by the resistance method.

## TEMPERATURE CLASS

The international classification of temperature classes is as follows :

|   |       |     |        |
|---|-------|-----|--------|
| A | 105°C | H   | 180 °C |
| E | 120°C | 200 | 200 °C |
| B | 130°C | 220 | 220 °C |
| F | 155°C | 250 | 250 °C |

It defines the maximum temperature the transformer components must withstand in continuous operation, in compliance with the N° 85 IEC publication classification. There insulating materials are therefore certificated for the thermal index corresponding to the declared class in accordance with N° 216 IEC standard.

## PARTICULAR POINTS OF EN 61558-2-6 STANDARD FOR SAFETY TRANSFORMERS

On-load secondary voltage tolerance.

This should not differ from the rated value by more than :

10% for transformers with build-in resistance to short-circuits (a supplement of 5% is granted on the 2 nd secondary for transformers with 2 secondaries).

5% for other transformers whatever the secondaries number.

Off-load secondary voltage.

The values given in this catalogue are maximum theoretical values.

**NOTE :** For safety transformers, this should never exceed 50 V rms. In the case of a transformer with several secondaries, the sum of the secondary voltages should be less than 50 V rms.

## ADAPTED TRANSFORMERS FROM THE STANDARDS SERIES

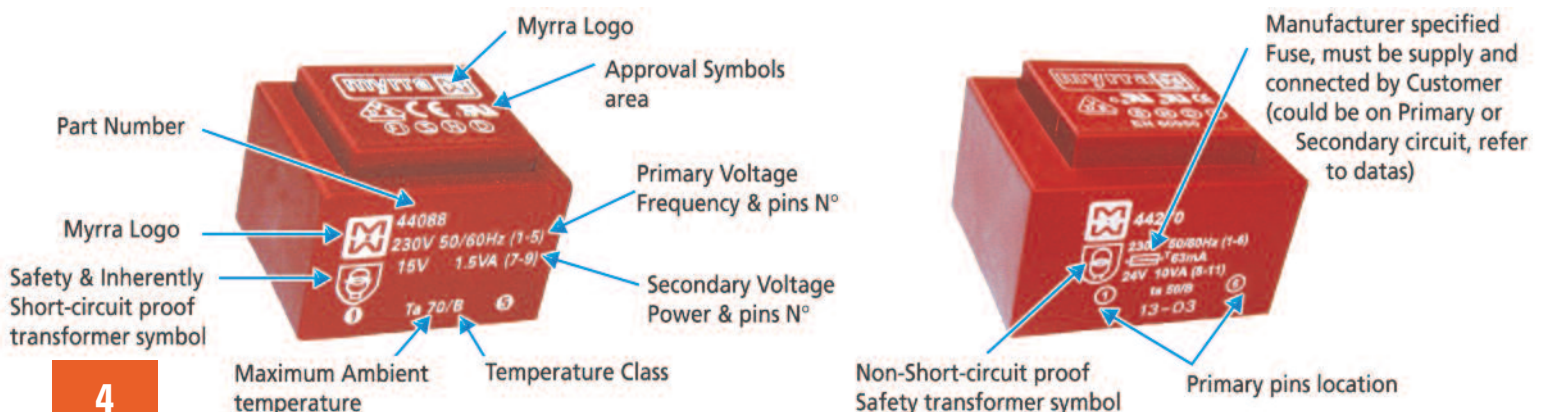
Any transformer whose requires Power and Ambient corresponding to those of our 44000 & 45000 range, and whose secondary voltage can fit in our minimum to maximum secondary range will be covered by EN61558-2-6, EN60950, or UL506 approvals, depending on the effective choice .

## SPECIAL TRANSFORMERS

MYRRA can use the 44000, 45000 or 46000 standard ranges to examine any transformer for compliance with your specifications and with international standards.

On request, we can add thermal protection, thermal fuse, thermal switch-CTP.

In certain cases, the addition of thermal protection enables the ambient temperature to be increased, while still complying with EN 61558.





- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 V0
- Degree of protection IP 00
- 40 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Inherently short-circuits proof
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

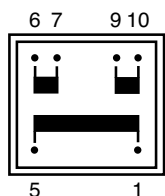
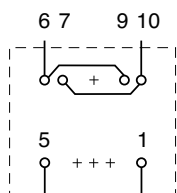
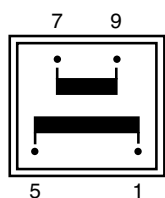
## QUALITY IN SERIES

### PRIMARY VOLTAGE 117 V

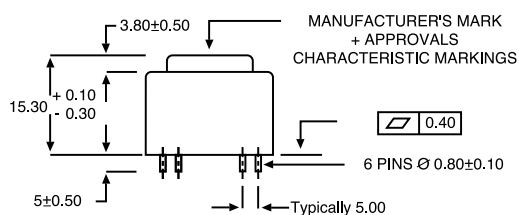
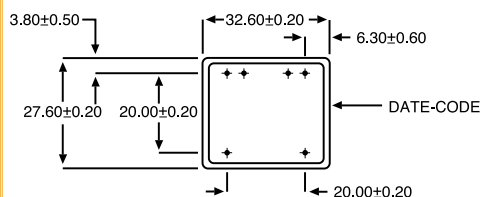
| Protection | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
|            | 44025     | 6                   | 100                  | 9,94              | T 70 B                 | 0,6       |
|            | 44026     | 9                   | 66                   | 14,95             | T 70 B                 | 0,6       |
|            | 44027     | 12                  | 50                   | 19,9              | T 70 B                 | 0,6       |
|            | 44028     | 15                  | 40                   | 24,9              | T 70 B                 | 0,6       |
|            | 44029     | 18                  | 33                   | 29,9              | T 70 B                 | 0,6       |
|            | 44030     | 24                  | 25                   | 39,8              | T 70 B                 | 0,6       |
|            | 44031     | 2 x 6               | 2 x 50               | 2 x 9,94          | T 70 B                 | 0,6       |
|            | 44032     | 2 x 9               | 2 x 33               | 2 x 14,95         | T 70 B                 | 0,6       |
|            | 44033     | 2 x 12              | 2 x 25               | 2 x 19,9          | T 70 B                 | 0,6       |
|            | 44034     | 2 x 15              | 2 x 20               | 2 x 24,9          | T 70 B                 | 0,6       |
|            | 44035     | 2 x 18              | 2 x 17               | 2 x 29,9          | T 70 B                 | 0,6       |
|            | 44036     | 2 x 24              | 2 x 12               | 2 x 39,8          | T 70 B                 | 0,6       |

### PRIMARY VOLTAGE 230 V

| Protection | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
|            | 44013     | 6                   | 100                  | 9,94              | T 70 B                 | 0,6       |
|            | 44014     | 9                   | 66                   | 14,95             | T 70 B                 | 0,6       |
|            | 44015     | 12                  | 50                   | 19,9              | T 70 B                 | 0,6       |
|            | 44016     | 15                  | 40                   | 24,9              | T 70 B                 | 0,6       |
|            | 44017     | 18                  | 33                   | 29,9              | T 70 B                 | 0,6       |
|            | 44018     | 24                  | 25                   | 39,8              | T 70 B                 | 0,6       |
|            | 44019     | 2 x 6               | 2 x 50               | 2 x 9,94          | T 70 B                 | 0,6       |
|            | 44020     | 2 x 9               | 2 x 33               | 2 x 14,95         | T 70 B                 | 0,6       |
|            | 44021     | 2 x 12              | 2 x 25               | 2 x 19,9          | T 70 B                 | 0,6       |
|            | 44022*    | 2 x 15              | 2 x 20               | 2 x 24,9          | T 70 B                 | 0,6       |
|            | 44023*    | 2 x 18              | 2 x 17               | 2 x 29,9          | T 70 B                 | 0,6       |
|            | 44024*    | 2 x 24              | 2 x 12               | 2 x 39,8          | T 70 B                 | 0,6       |



Recommended layout for transformers with 1 secondary winding  
(Allows the use of a transformer with 2 secondary windings)



\*\* RECOMMENDED DRILL-HOLE DIAMETER FOR 1,3 mm PINS



## PRIMARY VOLTAGE 117 V

| Protection | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
|            | 44061     | 6                   | 167                  | 8,6               | T 70 B                 | 1         |
|            | 44062     | 9                   | 111                  | 12,9              | T 70 B                 | 1         |
|            | 44063     | 12                  | 83                   | 17,2              | T 70 B                 | 1         |
|            | 44064     | 15                  | 67                   | 21,6              | T 70 B                 | 1         |
|            | 44065     | 18                  | 56                   | 25,9              | T 70 B                 | 1         |
|            | 44066     | 24                  | 42                   | 37,9              | T 70 B                 | 1         |
|            | 44067     | 2 X 6               | 2 x 83               | 2 x 8,6           | T 70 B                 | 1         |
|            | 44068     | 2 x 9               | 2 x 56               | 2 x 12,9          | T 70 B                 | 1         |
|            | 44069     | 2 x 12              | 2 x 42               | 2 x 19            | T 70 B                 | 1         |
|            | 44070     | 2 x 15              | 2 x 33               | 2 x 23,6          | T 70 B                 | 1         |
|            | 44071     | 2 x 18              | 2 x 28               | 2 x 24,9          | T 70 B                 | 1         |
|            | 44072     | 2 x 24              | 2 x 21               | 2 x 37,9          | T 70 B                 | 1         |

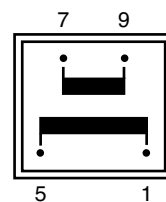
|  |        |        |     |          |         |     |
|--|--------|--------|-----|----------|---------|-----|
|  | 44338  | 6      | 250 | 10,1     | ta 70/B | 1,5 |
|  | 44339  | 9      | 167 | 15,3     | ta 70/B | 1,5 |
|  | 44340  | 12     | 125 | 20,2     | ta 70/B | 1,5 |
|  | 44341  | 15     | 100 | 25,3     | ta 70/B | 1,5 |
|  | 44342  | 18     | 83  | 31,2     | ta 70/B | 1,5 |
|  | 44343  | 24     | 63  | 43,3     | ta 70/B | 1,5 |
|  | 44344  | 2 x 6  | 125 | 2 x 10,1 | ta 70/B | 1,5 |
|  | 44345  | 2 x 9  | 83  | 2 x 15,3 | ta 70/B | 1,5 |
|  | 44346  | 2 x 12 | 63  | 2 x 20,2 | ta 70/B | 1,5 |
|  | 44347  | 2 x 15 | 50  | 2 x 25,0 | ta 70/B | 1,5 |
|  | 44348* | 2 x 18 | 42  | 2 x 31   | ta 70/B | 1,5 |
|  | 44349* | 2 x 24 | 31  | 2 x 43   | ta 70/B | 1,5 |

|  |       |        |         |          |         |     |
|--|-------|--------|---------|----------|---------|-----|
|  | 44840 | 6      | 300     | 10,1     | ta 70/B | 1,8 |
|  | 44841 | 9      | 200     | 15,2     | ta 70/B | 1,8 |
|  | 44842 | 12     | 150     | 20,3     | ta 70/B | 1,8 |
|  | 44843 | 15     | 120     | 27,3     | ta 70/B | 1,8 |
|  | 44844 | 18     | 100     | 30,4     | ta 70/B | 1,8 |
|  | 44845 | 24     | 75      | 40,6     | ta 70/B | 1,8 |
|  | 44846 | 2 x 6  | 2 x 150 | 2 x 10,1 | ta 70/B | 1,8 |
|  | 44847 | 2 x 9  | 2 x 100 | 2 x 15,2 | ta 70/B | 1,8 |
|  | 44848 | 2 x 12 | 2 x 75  | 2 x 20,3 | ta 70/B | 1,8 |
|  | 44849 | 2 x 15 | 2 x 60  | 2 x 27,3 | ta 70/B | 1,8 |



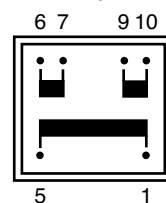
- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 V0
- Degree of protection IP 00
- 70 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Inherently short-circuits proof
- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)

1 Secondary winding

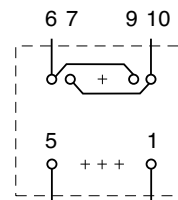


Primary winding

2 Secondary windings



Primary winding

Recommended layout for transformers  
with 1 secondary winding(Allows the use of a transformer  
with 2 secondary windings)



EN 61558-2-6



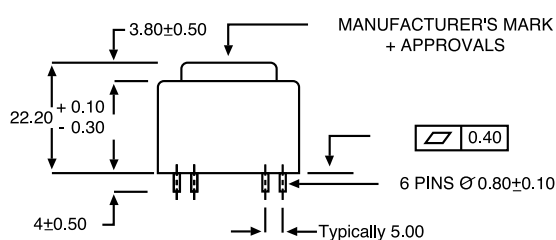
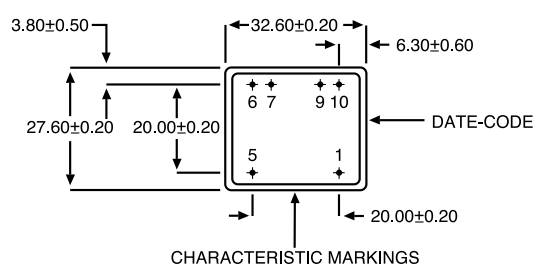
EN 60950

UL 1585

- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

\*To be noted 2 x 15 V and 2 x 24 V models are non-approved.

Those transformers meet all requirement of EN 61558-2-4



\*\* RECOMMENDED DRILL-HOLE DIAMETER FOR 1,3 mm PINS

## PRIMARY VOLTAGE 230 V

| Protection | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
|            | 44049*    | 6                   | 167                  | 8,6               | T 70 B                 | 1         |
|            | 44050*    | 9                   | 111                  | 12,9              | T 70 B                 | 1         |
|            | 44051*    | 12                  | 83                   | 17,2              | T 70 B                 | 1         |
|            | 44052*    | 15                  | 67                   | 21,6              | T 70 B                 | 1         |
|            | 44053*    | 18                  | 56                   | 25,9              | T 70 B                 | 1         |
|            | 44054*    | 24                  | 42                   | 37,9              | T 70 B                 | 1         |
|            | 44055*    | 2 x 6               | 2 x 83               | 2 x 8,6           | T 70 B                 | 1         |
|            | 44056*    | 2 x 9               | 2 x 56               | 2 x 12,9          | T 70 B                 | 1         |
|            | 44057*    | 2 x 12              | 2 x 42               | 2 x 19            | T 70 B                 | 1         |
|            | 44058*    | 2 x 15              | 2 x 33               | 2 x 23,6          | T 70 B                 | 1         |
|            | 44059*    | 2 x 18              | 2 x 28               | 2 x 24,9          | T 70 B                 | 1         |
|            | 44060**   | 2 x 24              | 2 x 21               | 2 x 37,9          | T 70 B                 | 1         |

\* Items usually available on stock

|  |        |        |     |          |         |     |
|--|--------|--------|-----|----------|---------|-----|
|  | 44326  | 6      | 250 | 10,1     | ta 70/B | 1,5 |
|  | 44327  | 9      | 167 | 15,3     | ta 70/B | 1,5 |
|  | 44328  | 12     | 125 | 20,2     | ta 70/B | 1,5 |
|  | 44329  | 15     | 100 | 25,3     | ta 70/B | 1,5 |
|  | 44330  | 18     | 83  | 31,2     | ta 70/B | 1,5 |
|  | 44331  | 24     | 63  | 43,3     | ta 70/B | 1,5 |
|  | 44332  | 2 x 6  | 125 | 2 x 10,1 | ta 70/B | 1,5 |
|  | 44333  | 2 x 9  | 83  | 2 x 15,3 | ta 70/B | 1,5 |
|  | 44334  | 2 x 12 | 63  | 2 x 20,2 | ta 70/B | 1,5 |
|  | 44335  | 2 x 15 | 50  | 2 x 25,0 | ta 70/B | 1,5 |
|  | 44336* | 2 x 18 | 42  | 2 x 31   | ta 70/B | 1,5 |
|  | 44337* | 2 x 24 | 31  | 2 x 43   | ta 70/B | 1,5 |

|  |        |        |         |          |         |     |
|--|--------|--------|---------|----------|---------|-----|
|  | 44830  | 6      | 300     | 10,1     | ta 70/B | 1,8 |
|  | 44831  | 9      | 200     | 15,2     | ta 70/B | 1,8 |
|  | 44832  | 12     | 150     | 20,3     | ta 70/B | 1,8 |
|  | 44833  | 15     | 120     | 27,3     | ta 70/B | 1,8 |
|  | 44834  | 18     | 100     | 30,4     | ta 70/B | 1,8 |
|  | 44835  | 24     | 75      | 40,6     | ta 70/B | 1,8 |
|  | 44836  | 2 x 6  | 2 x 150 | 2 x 10,1 | ta 70/B | 1,8 |
|  | 44837  | 2 x 9  | 2 x 100 | 2 x 15,2 | ta 70/B | 1,8 |
|  | 44838  | 2 x 12 | 2 x 75  | 2 x 20,3 | ta 70/B | 1,8 |
|  | 44839* | 2 x 15 | 2 x 60  | 2 x 27,3 | ta 70/B | 1,8 |



## PRIMARY VOLTAGE 117 V

| Protection | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
|            | 44097     | 6                   | 250                  | 9,7               | T 70 B                 | 1,5       |
|            | 44098     | 9                   | 167                  | 14,5              | T 70 B                 | 1,5       |
|            | 44099     | 12                  | 125                  | 19,3              | T 70 B                 | 1,5       |
|            | 44100     | 15                  | 100                  | 24,2              | T 70 B                 | 1,5       |
|            | 44101     | 18                  | 83                   | 29,8              | T 70 B                 | 1,5       |
|            | 44102     | 24                  | 63                   | 38,6              | T 70 B                 | 1,5       |
|            | 44103     | 2 X 6               | 2 x 125              | 2 x 9,7           | T 70 B                 | 1,5       |
|            | 44104     | 2 x 9               | 2 x 83               | 2 x 15            | T 70 B                 | 1,5       |
|            | 44105     | 2 x 12              | 2 x 63               | 2 x 19,3          | T 70 B                 | 1,5       |
|            | 44106     | 2 x 15              | 2 x 50               | 2 x 24,2          | T 70 B                 | 1,5       |
|            | 44107     | 2 x 18              | 2 x 42               | 2 x 29            | T 70 B                 | 1,5       |
|            | 44108     | 2 x 24              | 2 x 31               | 2 x 38,6          | T 70 B                 | 1,5       |

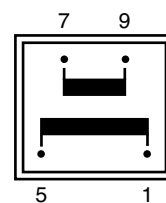
|  |       |        |         |          |        |     |
|--|-------|--------|---------|----------|--------|-----|
|  | 44726 | 6      | 283     | 9,8      | T 50 B | 1,7 |
|  | 44727 | 9      | 189     | 14,8     | T 50 B | 1,7 |
|  | 44728 | 12     | 142     | 19,7     | T 50 B | 1,7 |
|  | 44729 | 15     | 113     | 24,6     | T 50 B | 1,7 |
|  | 44730 | 18     | 94      | 30,3     | T 50 B | 1,7 |
|  | 44731 | 24     | 71      | 39,3     | T 50 B | 1,7 |
|  | 44732 | 2 x 6  | 2 x 142 | 2 x 9,8  | T 50 B | 1,7 |
|  | 44733 | 2 x 9  | 2 x 94  | 2 x 15,2 | T 50 B | 1,7 |
|  | 44734 | 2 x 12 | 2 x 71  | 2 x 19,7 | T 50 B | 1,7 |
|  | 44735 | 2 x 15 | 2 x 57  | 2 x 24,6 | T 50 B | 1,7 |
|  | 44736 | 2 x 18 | 2 x 47  | 2 x 29,5 | T 50 B | 1,7 |
|  | 44737 | 2 x 24 | 2 x 35  | 2 x 39,3 | T 50 B | 1,7 |

|  |       |        |         |          |        |     |
|--|-------|--------|---------|----------|--------|-----|
|  | 44738 | 6      | 300     | 9,8      | T 40 B | 1,8 |
|  | 44739 | 9      | 200     | 14,8     | T 40 B | 1,8 |
|  | 44740 | 12     | 150     | 19,7     | T 40 B | 1,8 |
|  | 44741 | 15     | 120     | 24,6     | T 40 B | 1,8 |
|  | 44742 | 18     | 100     | 30,3     | T 40 B | 1,8 |
|  | 44743 | 24     | 75      | 39,3     | T 40 B | 1,8 |
|  | 44744 | 2 x 6  | 2 x 150 | 2 x 9,8  | T 40 B | 1,8 |
|  | 44745 | 2 x 9  | 2 x 100 | 2 x 15,2 | T 40 B | 1,8 |
|  | 44746 | 2 x 12 | 2 x 75  | 2 x 19,7 | T 40 B | 1,8 |
|  | 44747 | 2 x 15 | 2 x 60  | 2 x 24,6 | T 40 B | 1,8 |
|  | 44748 | 2 x 18 | 2 x 50  | 2 x 29,5 | T 40 B | 1,8 |
|  | 44749 | 2 x 24 | 2 x 38  | 2 x 39,3 | T 40 B | 1,8 |



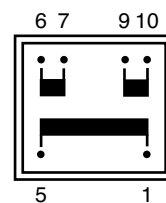
- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 V0
- Degree of protection IP 00
- 80 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Inherently short-circuits proof
- 30 V model is VDE EN 61558-2-6 certified (production on request)

1 Secondary winding



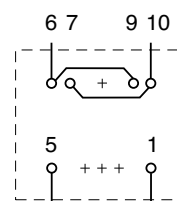
Primary winding

2 Secondary windings



Primary winding

Recommended layout for transformers with 1 secondary winding



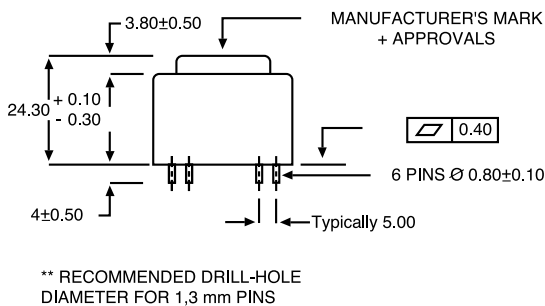
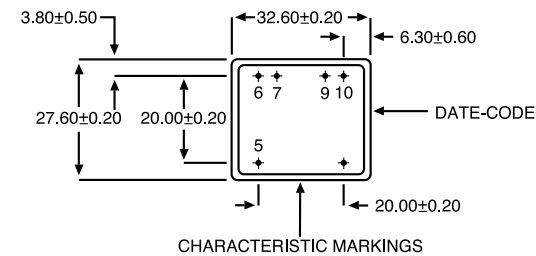
(Allows the use of a transformer with 2 secondary windings)

## QUALITY IN SERIES

**KEMA** **EN 61558-2-6** **EN 60950** **UL 1585**

- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

\*To be noted : 2 x 18 V and 2 x 24 V models are non-approved.  
Those transformers meet all requirement of EN 61558-2-4



## PRIMARY VOLTAGE 230 V

| Protection | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
|            | 44085*    | 6                   | 250                  | 9,7               | T 70 B                 | 1,5       |
|            | 44086*    | 9                   | 167                  | 14,5              | T 70 B                 | 1,5       |
|            | 44087*    | 12                  | 125                  | 19,3              | T 70 B                 | 1,5       |
|            | 44088*    | 15                  | 100                  | 24,2              | T 70 B                 | 1,5       |
|            | 44089*    | 18                  | 83                   | 29,8              | T 70 B                 | 1,5       |
|            | 44090*    | 24                  | 63                   | 38,6              | T 70 B                 | 1,5       |
|            | 44091*    | 2 X 6               | 2 x 125              | 2 x 9,7           | T 70 B                 | 1,5       |
|            | 44092*    | 2 x 9               | 2 x 83               | 2 x 15            | T 70 B                 | 1,5       |
|            | 44093*    | 2 x 12              | 2 x 63               | 2 x 19,3          | T 70 B                 | 1,5       |
|            | 44094*    | 2 x 15              | 2 x 50               | 2 x 24,2          | T 70 B                 | 1,5       |
|            | 44095**   | 2 x 18              | 2 x 42               | 2 x 29            | T 70 B                 | 1,5       |
|            | 44096**   | 2 x 24              | 2 x 31               | 2 x 38,6          | T 70 B                 | 1,5       |

\* Items usually available on stock

|  |        |        |         |          |        |     |
|--|--------|--------|---------|----------|--------|-----|
|  | 44647  | 6      | 283     | 9,8      | T 50 B | 1,7 |
|  | 44648  | 9      | 189     | 14,8     | T 50 B | 1,7 |
|  | 44649  | 12     | 142     | 19,7     | T 50 B | 1,7 |
|  | 44650  | 15     | 113     | 24,6     | T 50 B | 1,7 |
|  | 44651  | 18     | 94      | 30,3     | T 50 B | 1,7 |
|  | 44652  | 24     | 71      | 39,3     | T 50 B | 1,7 |
|  | 44653  | 2 x 6  | 2 x 142 | 2 x 9,8  | T 50 B | 1,7 |
|  | 44654  | 2 x 9  | 2 x 94  | 2 x 15,2 | T 50 B | 1,7 |
|  | 44655  | 2 x 12 | 2 x 71  | 2 x 19,7 | T 50 B | 1,7 |
|  | 44656  | 2 x 15 | 2 x 57  | 2 x 24,6 | T 50 B | 1,7 |
|  | 44483* | 2 x 18 | 2 x 47  | 2 x 29,5 | T 50 B | 1,7 |
|  | 44484* | 2 x 24 | 2 x 35  | 2 x 39,3 | T 50 B | 1,7 |

|  |        |        |         |          |        |     |
|--|--------|--------|---------|----------|--------|-----|
|  | 44657  | 6      | 300     | 9,8      | T 40 B | 1,8 |
|  | 44658  | 9      | 200     | 14,8     | T 40 B | 1,8 |
|  | 44659  | 12     | 150     | 19,7     | T 40 B | 1,8 |
|  | 44660  | 15     | 120     | 24,6     | T 40 B | 1,8 |
|  | 44661  | 18     | 100     | 30,3     | T 40 B | 1,8 |
|  | 44662  | 24     | 75      | 39,3     | T 40 B | 1,8 |
|  | 44663  | 2 x 6  | 2 x 150 | 2 x 9,8  | T 40 B | 1,8 |
|  | 44664  | 2 x 9  | 2 x 100 | 2 x 15,2 | T 40 B | 1,8 |
|  | 44665  | 2 x 12 | 2 x 75  | 2 x 19,7 | T 40 B | 1,8 |
|  | 44666  | 2 x 15 | 2 x 60  | 2 x 24,6 | T 40 B | 1,8 |
|  | 44485* | 2 x 18 | 2 x 50  | 2 x 29,5 | T 40 B | 1,8 |
|  | 44486* | 2 x 24 | 2 x 38  | 2 x 39,3 | T 40 B | 1,8 |





## PRIMARY VOLTAGE 117 V

| Protection | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
|            | 44133     | 6                   | 333                  | 10,4              | T 70 B                 | 2         |
|            | 44134     | 9                   | 222                  | 15,5              | T 70 B                 | 2         |
|            | 44135     | 12                  | 167                  | 20,7              | T 70 B                 | 2         |
|            | 44136     | 15                  | 133                  | 25,8              | T 70 B                 | 2         |
|            | 44137     | 18                  | 111                  | 30,8              | T 70 B                 | 2         |
|            | 44138     | 24                  | 83                   | 41,4              | T 70 B                 | 2         |
|            | 44139     | 2 X 6               | 2 x 167              | 2 x 10,4          | T 70 B                 | 2         |
|            | 44140     | 2 x 9               | 2 x 111              | 2 x 15,4          | T 70 B                 | 2         |
|            | 44141     | 2 x 12              | 2 x 83               | 2 x 20,7          | T 70 B                 | 2         |
|            | 44142     | 2 x 15              | 2 x 67               | 2 x 25,8          | T 70 B                 | 2         |
|            | 44143     | 2 x 18              | 2 x 56               | 2 x 30,8          | T 70 B                 | 2         |
|            | 44144     | 2 x 24              | 2 x 42               | 2 x 41,4          | T 70 B                 | 2         |

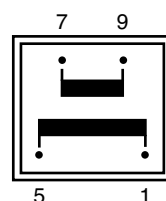
|  |       |        |         |          |        |     |
|--|-------|--------|---------|----------|--------|-----|
|  | 44750 | 6      | 383     | 10,5     | T 50 B | 2,3 |
|  | 44751 | 9      | 256     | 15,5     | T 50 B | 2,3 |
|  | 44752 | 12     | 192     | 21       | T 50 B | 2,3 |
|  | 44753 | 15     | 153     | 25,3     | T 50 B | 2,3 |
|  | 44754 | 18     | 128     | 31       | T 50 B | 2,3 |
|  | 44755 | 24     | 96      | 42       | T 50 B | 2,3 |
|  | 44756 | 2 x 6  | 2 x 192 | 2 x 10,5 | T 50 B | 2,3 |
|  | 44757 | 2 x 9  | 2 x 128 | 2 x 15,5 | T 50 B | 2,3 |
|  | 44758 | 2 x 12 | 2 x 96  | 2 x 21   | T 50 B | 2,3 |
|  | 44759 | 2 x 15 | 2 x 77  | 2 x 24,5 | T 50 B | 2,3 |
|  | 44760 | 2 x 18 | 2 x 64  | 2 x 31   | T 50 B | 2,3 |
|  | 44761 | 2 x 24 | 2 x 48  | 2 x 42   | T 50 B | 2,3 |

|  |       |        |         |          |        |     |
|--|-------|--------|---------|----------|--------|-----|
|  | 44762 | 6      | 400     | 10,5     | T 40 B | 2,4 |
|  | 44763 | 9      | 267     | 15,5     | T 40 B | 2,4 |
|  | 44764 | 12     | 200     | 21       | T 40 B | 2,4 |
|  | 44765 | 15     | 160     | 25,3     | T 40 B | 2,4 |
|  | 44766 | 18     | 133     | 31       | T 40 B | 2,4 |
|  | 44767 | 24     | 100     | 42       | T 40 B | 2,4 |
|  | 44768 | 2 x 6  | 2 x 200 | 2 x 10,5 | T 40 B | 2,4 |
|  | 44769 | 2 x 9  | 2 x 133 | 2 x 15,5 | T 40 B | 2,4 |
|  | 44770 | 2 x 12 | 2 x 100 | 2 x 21   | T 40 B | 2,4 |
|  | 44771 | 2 x 15 | 2 x 80  | 2 x 24,5 | T 40 B | 2,4 |
|  | 44772 | 2 x 18 | 2 x 67  | 2 x 31   | T 40 B | 2,4 |
|  | 44773 | 2 x 24 | 2 x 50  | 2 x 42   | T 40 B | 2,4 |



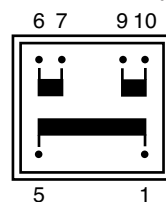
- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 V0
- Degree of protection IP 00
- 100 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Inherently short-circuits proof
- 30 V model is VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV

1 Secondary winding



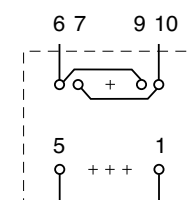
Primary winding

2 Secondary windings



Primary winding

Recommended layout for transformers with 1 secondary winding



(Allows the use of a transformer with 2 secondary windings)





EN 61558-2-6



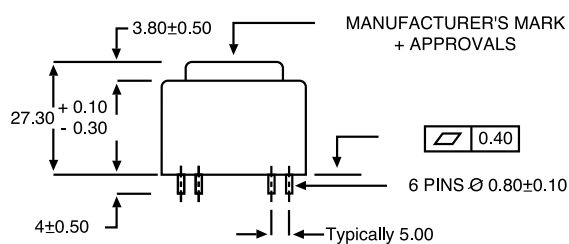
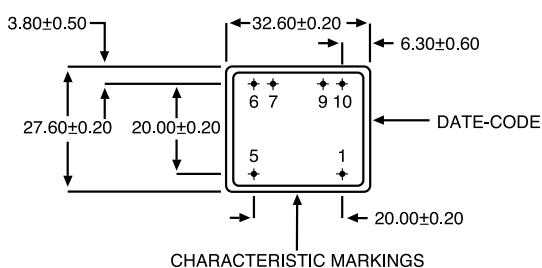
EN 60950

UL 1585

- 100 % tested production
- Certification : CCA procedure on request

\*To be noted : 2 x 18 V and 2 x 24 V models are non-approved.

Those transformers meet all requirement of EN 61558-2-4



\*\* RECOMMENDED DRILL-HOLE DIAMETER FOR 1.3 mm PINS

## PRIMARY VOLTAGE 230 V

| Protection | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
|            | 44121*    | 6                   | 333                  | 10,4              | T 70 B                 | 2         |
|            | 44122*    | 9                   | 222                  | 15,5              | T 70 B                 | 2         |
|            | 44123*    | 12                  | 167                  | 20,7              | T 70 B                 | 2         |
|            | 44124*    | 15                  | 133                  | 25,8              | T 70 B                 | 2         |
|            | 44125*    | 18                  | 111                  | 30,8              | T 70 B                 | 2         |
|            | 44126*    | 24                  | 83                   | 41,4              | T 70 B                 | 2         |
|            | 44127*    | 2 X 6               | 2 x 167              | 2 x 10,4          | T 70 B                 | 2         |
|            | 44128*    | 2 x 9               | 2 x 111              | 2 x 15,4          | T 70 B                 | 2         |
|            | 44129*    | 2 x 12              | 2 x 83               | 2 x 20,7          | T 70 B                 | 2         |
|            | 44130*    | 2 x 15              | 2 x 67               | 2 x 25,8          | T 70 B                 | 2         |
|            | 44131**   | 2 x 18              | 2 x 56               | 2 x 30,8          | T 70 B                 | 2         |
|            | 44132**   | 2 x 24              | 2 x 42               | 2 x 41,4          | T 70 B                 | 2         |

\* Items usually available on stock

|  |        |        |         |          |        |     |
|--|--------|--------|---------|----------|--------|-----|
|  | 44667  | 6      | 383     | 10,5     | T 50 B | 2,3 |
|  | 44668  | 9      | 256     | 15,5     | T 50 B | 2,3 |
|  | 44669  | 12     | 192     | 21       | T 50 B | 2,3 |
|  | 44670  | 15     | 153     | 25,3     | T 50 B | 2,3 |
|  | 44671  | 18     | 128     | 31       | T 50 B | 2,3 |
|  | 44672  | 24     | 96      | 42       | T 50 B | 2,3 |
|  | 44673  | 2 x 6  | 2 x 192 | 2 x 10,5 | T 50 B | 2,3 |
|  | 44674  | 2 x 9  | 2 x 128 | 2 x 15,5 | T 50 B | 2,3 |
|  | 44675  | 2 x 12 | 2 x 96  | 2 x 21   | T 50 B | 2,3 |
|  | 44676  | 2 x 15 | 2 x 77  | 2 x 24,5 | T 50 B | 2,3 |
|  | 44487* | 2 x 18 | 2 x 64  | 2 x 31   | T 50 B | 2,3 |
|  | 44488* | 2 x 24 | 2 x 48  | 2 x 42   | T 50 B | 2,3 |

|  |        |        |         |          |        |     |
|--|--------|--------|---------|----------|--------|-----|
|  | 44677  | 6      | 400     | 10,5     | T 40 B | 2,4 |
|  | 44678  | 9      | 267     | 15,5     | T 40 B | 2,4 |
|  | 44679  | 12     | 200     | 21       | T 40 B | 2,4 |
|  | 44680  | 15     | 160     | 25,3     | T 40 B | 2,4 |
|  | 44681  | 18     | 133     | 31       | T 40 B | 2,4 |
|  | 44682  | 24     | 100     | 42       | T 40 B | 2,4 |
|  | 44683  | 2 x 6  | 2 x 200 | 2 x 10,5 | T 40 B | 2,4 |
|  | 44684  | 2 x 9  | 2 x 133 | 2 x 15,5 | T 40 B | 2,4 |
|  | 44685  | 2 x 12 | 2 x 100 | 2 x 21   | T 40 B | 2,4 |
|  | 44686  | 2 x 15 | 2 x 80  | 2 x 24,5 | T 40 B | 2,4 |
|  | 44489* | 2 x 18 | 2 x 67  | 2 x 31   | T 40 B | 2,4 |
|  | 44490* | 2 x 24 | 2 x 50  | 2 x 42   | T 40 B | 2,4 |



## PRIMARY VOLTAGE 117 V

| Protection | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
|            | 44169     | 6                   | 383                  | 10,5              | T 70 B                 | 2,3       |
|            | 44170     | 9                   | 256                  | 15,7              | T 70 B                 | 2,3       |
|            | 44171     | 12                  | 192                  | 21                | T 70 B                 | 2,3       |
|            | 44172     | 15                  | 153                  | 25,9              | T 70 B                 | 2,3       |
|            | 44173     | 18                  | 128                  | 31,4              | T 70 B                 | 2,3       |
|            | 44174     | 24                  | 96                   | 41,9              | T 70 B                 | 2,3       |
|            | 44175     | 2 X 6               | 2 x 192              | 2 x 10,5          | T 70 B                 | 2,3       |
|            | 44176     | 2 x 9               | 2 x 128              | 2 x 15,7          | T 70 B                 | 2,3       |
|            | 44177     | 2 x 12              | 2 x 96               | 2 x 21            | T 70 B                 | 2,3       |
|            | 44178     | 2 x 15              | 2 x 77               | 2 x 25,9          | T 70 B                 | 2,3       |
|            | 44179     | 2 x 18              | 2 x 64               | 2 x 31,4          | T 70 B                 | 2,3       |
|            | 44180     | 2 x 24              | 2 x 48               | 2 x 41,9          | T 70 B                 | 2,3       |

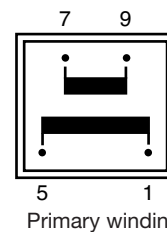
|  |       |        |         |          |        |     |
|--|-------|--------|---------|----------|--------|-----|
|  | 44774 | 6      | 450     | 10,5     | T 50 B | 2,7 |
|  | 44775 | 9      | 300     | 15,4     | T 50 B | 2,7 |
|  | 44776 | 12     | 225     | 21,1     | T 50 B | 2,7 |
|  | 44777 | 15     | 180     | 26,3     | T 50 B | 2,7 |
|  | 44778 | 18     | 150     | 30,9     | T 50 B | 2,7 |
|  | 44779 | 24     | 113     | 42       | T 50 B | 2,7 |
|  | 44780 | 2 x 6  | 2 x 225 | 2 x 10,5 | T 50 B | 2,7 |
|  | 44781 | 2 x 9  | 2 x 150 | 2 x 15,4 | T 50 B | 2,7 |
|  | 44782 | 2 x 12 | 2 x 113 | 2 x 21,1 | T 50 B | 2,7 |
|  | 44783 | 2 x 15 | 2 x 90  | 2 x 26,3 | T 50 B | 2,7 |
|  | 44784 | 2 x 18 | 2 x 75  | 2 x 31,5 | T 50 B | 2,7 |
|  | 44785 | 2 x 24 | 2 x 56  | 2 x 42,1 | T 50 B | 2,7 |

|  |       |        |         |          |        |     |
|--|-------|--------|---------|----------|--------|-----|
|  | 44786 | 6      | 467     | 10,5     | T 40 B | 2,8 |
|  | 44787 | 9      | 311     | 15,4     | T 40 B | 2,8 |
|  | 44788 | 12     | 233     | 21,1     | T 40 B | 2,8 |
|  | 44789 | 15     | 187     | 26,3     | T 40 B | 2,8 |
|  | 44790 | 18     | 156     | 30,9     | T 40 B | 2,8 |
|  | 44791 | 24     | 117     | 42,1     | T 40 B | 2,8 |
|  | 44792 | 2 x 6  | 2 x 233 | 2 x 10,5 | T 40 B | 2,8 |
|  | 44793 | 2 x 9  | 2 x 156 | 2 x 15,4 | T 40 B | 2,8 |
|  | 44794 | 2 x 12 | 2 x 117 | 2 x 21,1 | T 40 B | 2,8 |
|  | 44795 | 2 x 15 | 2 x 93  | 2 x 26,3 | T 40 B | 2,8 |
|  | 44796 | 2 x 18 | 2 x 77  | 2 x 31,5 | T 40 B | 2,8 |
|  | 44797 | 2 x 24 | 2 x 58  | 2 x 42,1 | T 40 B | 2,8 |

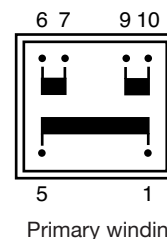


- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 V0
- Degree of protection IP 00
- 70 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Inherently short-circuits proof
- 30 V model is VDE EN 61558-2-6 certified (production on request)

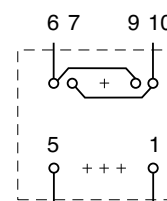
1 Secondary winding



2 Secondary windings



Recommended layout for transformers with 1 secondary winding



(Allows the use of a transformer with 2 secondary windings)



EN 61558-2-6



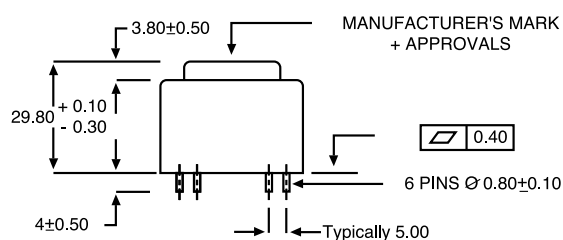
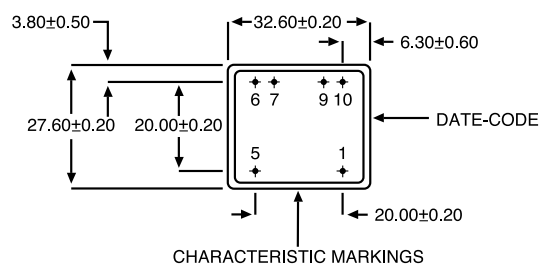
EN 60950

UL 1585

- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

\*To be noted : 2 x 18 V and 2 x 24 V models are non-approved.

Those transformers meet all requirement of EN 61558-2-4



\*\* RECOMMENDED DRILL-HOLE DIAMETER FOR 1.3 mm PINS

## PRIMARY VOLTAGE 230 V

| Protection | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
|            | 44157*    | 6                   | 383                  | 10,5              | T 70 B                 | 2,3       |
|            | 44158*    | 9                   | 256                  | 15,7              | T 70 B                 | 2,3       |
|            | 44159*    | 12                  | 192                  | 21                | T 70 B                 | 2,3       |
|            | 44160*    | 15                  | 153                  | 25,9              | T 70 B                 | 2,3       |
|            | 44161*    | 18                  | 128                  | 31,4              | T 70 B                 | 2,3       |
|            | 44162*    | 24                  | 96                   | 41,9              | T 70 B                 | 2,3       |
|            | 44163*    | 2 X 6               | 2 x 192              | 2 x 10,5          | T 70 B                 | 2,3       |
|            | 44164*    | 2 x 9               | 2 x 128              | 2 x 15,7          | T 70 B                 | 2,3       |
|            | 44165*    | 2 x 12              | 2 x 96               | 2 x 21            | T 70 B                 | 2,3       |
|            | 44166*    | 2 x 15              | 2 x 77               | 2 x 25,9          | T 70 B                 | 2,3       |
|            | 44167**   | 2 x 18              | 2 x 64               | 2 x 31,4          | T 70 B                 | 2,3       |
|            | 44168**   | 2 x 24              | 2 x 48               | 2 x 41,9          | T 70 B                 | 2,3       |

\* Items usually available on stock

|  |        |        |         |          |        |     |
|--|--------|--------|---------|----------|--------|-----|
|  | 44687  | 6      | 450     | 10,5     | T 50 B | 2,7 |
|  | 44688  | 9      | 300     | 15,4     | T 50 B | 2,7 |
|  | 44689  | 12     | 225     | 21,1     | T 50 B | 2,7 |
|  | 44690  | 15     | 180     | 26,3     | T 50 B | 2,7 |
|  | 44691  | 18     | 150     | 30,9     | T 50 B | 2,7 |
|  | 44692  | 24     | 113     | 42       | T 50 B | 2,7 |
|  | 44693  | 2 x 6  | 2 x 225 | 2 x 10,5 | T 50 B | 2,7 |
|  | 44694  | 2 x 9  | 2 x 150 | 2 x 15,4 | T 50 B | 2,7 |
|  | 44695  | 2 x 12 | 2 x 113 | 2 x 21,1 | T 50 B | 2,7 |
|  | 44696  | 2 x 15 | 2 x 90  | 2 x 26,3 | T 50 B | 2,7 |
|  | 44491* | 2 x 18 | 2 x 75  | 2 x 31,5 | T 50 B | 2,7 |
|  | 44492* | 2 x 24 | 2 x 56  | 2 x 42,1 | T 50 B | 2,7 |

|  |        |        |         |          |        |     |
|--|--------|--------|---------|----------|--------|-----|
|  | 44697  | 6      | 467     | 10,5     | T 40 B | 2,8 |
|  | 44698  | 9      | 311     | 15,4     | T 40 B | 2,8 |
|  | 44699  | 12     | 233     | 21,1     | T 40 B | 2,8 |
|  | 44700  | 15     | 187     | 26,3     | T 40 B | 2,8 |
|  | 44701  | 18     | 156     | 30,9     | T 40 B | 2,8 |
|  | 44702  | 24     | 117     | 42,1     | T 40 B | 2,8 |
|  | 44703  | 2 x 6  | 2 x 233 | 2 x 10,5 | T 40 B | 2,8 |
|  | 44704  | 2 x 9  | 2 x 156 | 2 x 15,4 | T 40 B | 2,8 |
|  | 44705  | 2 x 12 | 2 x 117 | 2 x 21,1 | T 40 B | 2,8 |
|  | 44706  | 2 x 15 | 2 x 93  | 2 x 26,3 | T 40 B | 2,8 |
|  | 44493* | 2 x 18 | 2 x 70  | 2 x 31,5 | T 40 B | 2,8 |
|  | 44494* | 2 x 24 | 2 x 58  | 2 x 42,1 | T 40 B | 2,8 |

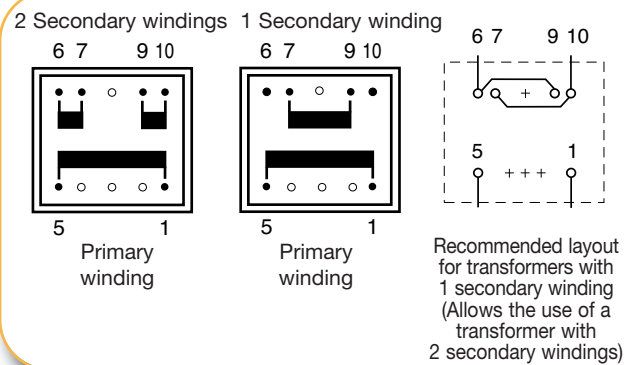


## PRIMARY VOLTAGE 117 V

| Secondary protection mA | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|-------------------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
| 630                     | 44205     | 6                   | 533                  | 8                 | T 70 B                 | 3,2       |
| 400                     | 44206     | 9                   | 356                  | 12                | T 70 B                 | 3,2       |
| 315                     | 44207     | 12                  | 267                  | 16                | T 70 B                 | 3,2       |
| 250                     | 44208     | 15                  | 213                  | 20                | T 70 B                 | 3,2       |
| 200                     | 44209     | 18                  | 178                  | 24,1              | T 70 B                 | 3,2       |
| 160                     | 44210     | 24                  | 133                  | 32,1              | T 70 B                 | 3,2       |
| 315                     | 44211     | 2 x 6               | 2 x 267              | 2 x 8             | T 70 B                 | 3,2       |
| 200                     | 44212     | 2 x 9               | 2 x 178              | 2 x 12            | T 70 B                 | 3,2       |
| 160                     | 44213     | 2 x 12              | 2 x 133              | 2 x 16            | T 70 B                 | 3,2       |
| 125                     | 44214     | 2 x 15              | 2 x 107              | 2 x 20            | T 70 B                 | 3,2       |
| 100                     | 44215     | 2 x 18              | 2 x 89               | 2 x 24            | T 70 B                 | 3,2       |
| 80                      | 44216     | 2 x 24              | 2 x 67               | 2 x 32,1          | T 70 B                 | 3,2       |



- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 V0
- Degree of protection IP 00
- 150 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on secondary side (see diagram) to be assumed by customer

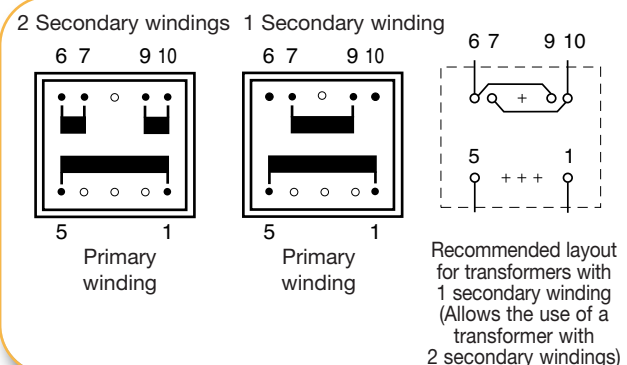


## PRIMARY VOLTAGE 117 V

| Secondary protection mA | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|-------------------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
| 800                     | 44241     | 6                   | 833                  | 8,4               | T 50 B                 | 5         |
| 630                     | 44242     | 9                   | 556                  | 12,6              | T 50 B                 | 5         |
| 400                     | 44243     | 12                  | 417                  | 16,9              | T 50 B                 | 5         |
| 315                     | 44244     | 15                  | 333                  | 21                | T 50 B                 | 5         |
| 315                     | 44245     | 18                  | 278                  | 25,3              | T 50 B                 | 5         |
| 200                     | 44246     | 24                  | 208                  | 33,7              | T 50 B                 | 5         |
| 400                     | 44247     | 2 x 6               | 2 x 417              | 2 x 8,4           | T 50 B                 | 5         |
| 315                     | 44248     | 2 x 9               | 2 x 278              | 2 x 12,6          | T 50 B                 | 5         |
| 200                     | 44249     | 2 x 12              | 2 x 208              | 2 x 16,9          | T 50 B                 | 5         |
| 160                     | 44250     | 2 x 15              | 2 x 167              | 2 x 21            | T 50 B                 | 5         |
| 160                     | 44251     | 2 x 18              | 2 x 139              | 2 x 25,3          | T 50 B                 | 5         |
| 100                     | 44252     | 2 x 24              | 2 x 104              | 2 x 33,7          | T 50 B                 | 5         |



- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 V0
- Degree of protection IP 00
- 200 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on secondary side (see diagram) to be assumed by customer



3,2 VA



EI 38-13,6



SERIE 44000



EN 61558-2-6

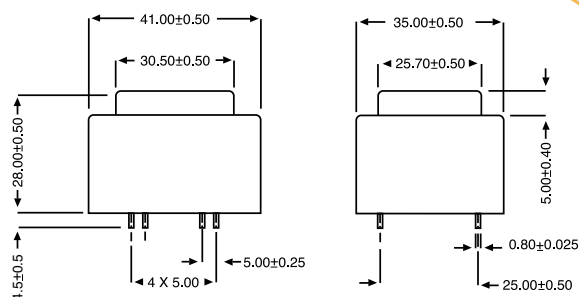


EN 60950

- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

\*To be noted : 2 x 24 V model is non-approved.

Those transformers meet all requirement of EN 61558-2-4



\*\* RECOMMENDED DRILL-HOLE DIAMETER FOR 1,3 mm PINS

## PRIMARY VOLTAGE 230 V

| Secondary protection mA | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|-------------------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
| 630                     | 44193     | 6                   | 533                  | 8                 | T 70 B                 | 3,2       |
| 400                     | 44194     | 9                   | 356                  | 12                | T 70 B                 | 3,2       |
| 315                     | 44195     | 12                  | 267                  | 16                | T 70 B                 | 3,2       |
| 250                     | 44196     | 15                  | 213                  | 20                | T 70 B                 | 3,2       |
| 200                     | 44197     | 18                  | 178                  | 24,1              | T 70 B                 | 3,2       |
| 160                     | 44198     | 24                  | 133                  | 32,1              | T 70 B                 | 3,2       |
| 315                     | 44199     | 2 x 6               | 2 x 267              | 2 x 8             | T 70 B                 | 3,2       |
| 200                     | 44200     | 2 x 9               | 2 x 178              | 2 x 12            | T 70 B                 | 3,2       |
| 160                     | 44201     | 2 x 12              | 2 x 133              | 2 x 16            | T 70 B                 | 3,2       |
| 125                     | 44202     | 2 x 15              | 2 x 107              | 2 x 20            | T 70 B                 | 3,2       |
| 100                     | 44203     | 2 x 18              | 2 x 89               | 2 x 24            | T 70 B                 | 3,2       |
| 80                      | 44204*    | 2 x 24              | 2 x 67               | 2 x 32,1          | T 70 B                 | 3,2       |

5 VA



EI 42-14,8



SERIE 44000



EN 61558-2-6

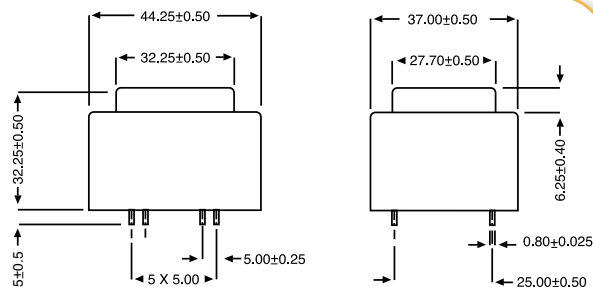


EN 60950

- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

\*To be noted : 2 x 24 V model is non-approved.

Those transformers meet all requirement of EN 61558-2-4



\*\* RECOMMENDED DRILL-HOLE DIAMETER FOR 1,3 mm PINS

## PRIMARY VOLTAGE 230 V

| Secondary protection mA | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|-------------------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
| 800                     | 44229     | 6                   | 833                  | 8,4               | T 50 B                 | 5         |
| 630                     | 44230     | 9                   | 556                  | 12,6              | T 50 B                 | 5         |
| 400                     | 44231     | 12                  | 417                  | 16,9              | T 50 B                 | 5         |
| 315                     | 44232     | 15                  | 333                  | 21                | T 50 B                 | 5         |
| 315                     | 44233     | 18                  | 278                  | 25,3              | T 50 B                 | 5         |
| 200                     | 44234     | 24                  | 208                  | 33,7              | T 50 B                 | 5         |
| 400                     | 44235     | 2 x 6               | 2 x 417              | 2 x 8,4           | T 50 B                 | 5         |
| 315                     | 44236     | 2 x 9               | 2 x 278              | 2 x 12,6          | T 50 B                 | 5         |
| 200                     | 44237     | 2 x 12              | 2 x 208              | 2 x 16,9          | T 50 B                 | 5         |
| 160                     | 44238     | 2 x 15              | 2 x 167              | 2 x 21            | T 50 B                 | 5         |
| 160                     | 44239     | 2 x 18              | 2 x 139              | 2 x 25,3          | T 50 B                 | 5         |
| 100                     | 44240*    | 2 x 24              | 2 x 104              | 2 x 33,7          | T 50 B                 | 5         |

ENCAPSULATED TRANSFORMERS

44000 SERIES



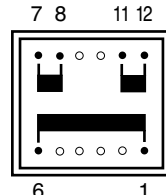
## PRIMARY VOLTAGE 117 V

| Primary protection mA | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|-----------------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
| 125                   | 44277     | 6                   | 1667                 | 7,2               | T 50 B                 | 10        |
| 125                   | 44278     | 9                   | 1111                 | 10,8              | T 50 B                 | 10        |
| 125                   | 44279     | 12                  | 833                  | 14,4              | T 50 B                 | 10        |
| 125                   | 44280     | 15                  | 667                  | 18,1              | T 50 B                 | 10        |
| 125                   | 44281     | 18                  | 556                  | 21,6              | T 50 B                 | 10        |
| 125                   | 44282     | 24                  | 417                  | 28,9              | T 50 B                 | 10        |
| 125                   | 44283     | 2 x 6               | 2 x 833              | 2 x 7,2           | T 50 B                 | 10        |
| 125                   | 44284     | 2 x 9               | 2 x 556              | 2 x 10,8          | T 50 B                 | 10        |
| 125                   | 44285     | 2 x 12              | 2 x 417              | 2 x 14,4          | T 50 B                 | 10        |
| 125                   | 44286     | 2 x 15              | 2 x 333              | 2 x 18,1          | T 50 B                 | 10        |
| 125                   | 44287     | 2 x 18              | 2 x 278              | 2 x 21,6          | T 50 B                 | 10        |
| 125                   | 44288     | 2 x 24              | 2 x 208              | 2 x 28,9          | T 50 B                 | 10        |



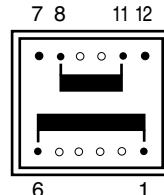
- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 V0
- Degree of protection IP 00
- 300 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on primary side (see diagram) to be assumed by customer

2 Secondary windings

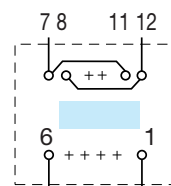


Primary winding

1 Secondary winding



Primary winding



Recommended layout for transformers with 1 secondary winding (Allows the use of a transformer with 2 secondary windings)



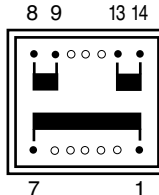
## PRIMARY VOLTAGE 117 V

| Secondary protection mA | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|-------------------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
| 2,5                     | 44313     | 6                   | 2667                 | 7,4               | T 50 B                 | 16        |
| 2,0                     | 44314     | 9                   | 1778                 | 11,1              | T 50 B                 | 16        |
| 1,25                    | 44315     | 12                  | 1333                 | 14,7              | T 50 B                 | 16        |
| 1                       | 44316     | 15                  | 1067                 | 18,4              | T 50 B                 | 16        |
| 1                       | 44317     | 18                  | 889                  | 22,1              | T 50 B                 | 16        |
| 0,63                    | 44318     | 24                  | 667                  | 29,3              | T 50 B                 | 16        |
| 1,25                    | 44319     | 2 x 6               | 2 x 1333             | 2 x 7,4           | T 50 B                 | 16        |
| 1                       | 44320     | 2 x 9               | 2 x 889              | 2 x 11,1          | T 50 B                 | 16        |
| 0,63                    | 44321     | 2 x 12              | 2 x 667              | 2 x 14,7          | T 50 B                 | 16        |
| 0,5                     | 44322     | 2 x 15              | 2 x 533              | 2 x 18,4          | T 50 B                 | 16        |
| 0,5                     | 44323     | 2 x 18              | 2 x 444              | 2 x 22            | T 50 B                 | 16        |
| 0,315                   | 44324     | 2 x 24              | 2 x 333              | 2 x 29,3          | T 50 B                 | 16        |



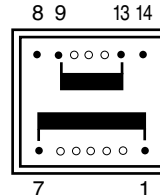
- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 V0
- Degree of protection IP 00
- 400 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on secondary side (see diagram) to be assumed by customer

2 Secondary windings

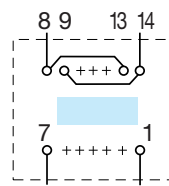


Primary winding

1 Secondary winding



Primary winding



Recommended layout for transformers with 1 secondary winding (Allows the use of a transformer with 2 secondary windings)



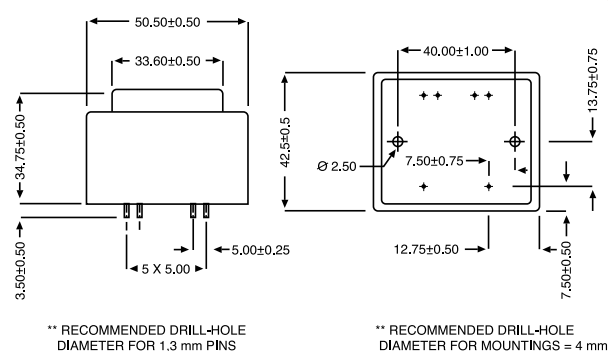
EN 61558-2-6



EN 60950

- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

\*To be noted : 2 x 24 V model is non-approved.  
Those transformers meet all requirement of EN 61558-2-4



## PRIMARY VOLTAGE 230 V

| Primary protection mA | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|-----------------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
| 63                    | 44265     | 6                   | 1667                 | 7,2               | T 50 B                 | 10        |
| 63                    | 44266     | 9                   | 1111                 | 10,8              | T 50 B                 | 10        |
| 63                    | 44267     | 12                  | 833                  | 14,4              | T 50 B                 | 10        |
| 63                    | 44268     | 15                  | 667                  | 18,1              | T 50 B                 | 10        |
| 63                    | 44269     | 18                  | 556                  | 21,6              | T 50 B                 | 10        |
| 63                    | 44270     | 24                  | 417                  | 28,9              | T 50 B                 | 10        |
| 63                    | 44271     | 2 x 6               | 2 x 833              | 2 x 7,2           | T 50 B                 | 10        |
| 63                    | 44272     | 2 x 9               | 2 x 556              | 2 x 10,8          | T 50 B                 | 10        |
| 63                    | 44273     | 2 x 12              | 2 x 417              | 2 x 14,4          | T 50 B                 | 10        |
| 63                    | 44274     | 2 x 15              | 2 x 333              | 2 x 18,1          | T 50 B                 | 10        |
| 63                    | 44275     | 2 x 18              | 2 x 278              | 2 x 21,6          | T 50 B                 | 10        |
| 63                    | 44276*    | 2 x 24              | 2 x 208              | 2 x 28,9          | T 50 B                 | 10        |



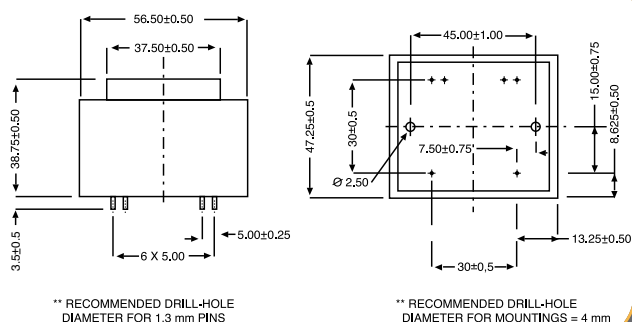
EN 61558-2-6



EN 60950

- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

\*To be noted : 2 x 24 V model is non-approved.  
Those transformers meet all requirement of EN 61558-2-4



## PRIMARY VOLTAGE 230 V

| Secondary protection mA | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|-------------------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
| 2,500                   | 44301     | 6                   | 2667                 | 7,4               | T 50 B                 | 16        |
| 2,000                   | 44302     | 9                   | 1778                 | 11,1              | T 50 B                 | 16        |
| 1,25                    | 44303     | 12                  | 1333                 | 14,7              | T 50 B                 | 16        |
| 1                       | 44304     | 15                  | 1067                 | 18,4              | T 50 B                 | 16        |
| 1                       | 44305     | 18                  | 889                  | 22,1              | T 50 B                 | 16        |
| 0,63                    | 44306     | 24                  | 667                  | 29,3              | T 50 B                 | 16        |
| 1,25                    | 44307     | 2 x 6               | 2 x 1333             | 2 x 7,4           | T 50 B                 | 16        |
| 1                       | 44308     | 2 x 9               | 2 x 889              | 2 x 11,1          | T 50 B                 | 16        |
| 0,63                    | 44309     | 2 x 12              | 2 x 667              | 2 x 14,7          | T 50 B                 | 16        |
| 0,5                     | 44310     | 2 x 15              | 2 x 533              | 2 x 18,4          | T 50 B                 | 16        |
| 0,5                     | 44311     | 2 x 18              | 2 x 444              | 2 x 22            | T 50 B                 | 16        |
| 0,315                   | 44312*    | 2 x 24              | 2 x 333              | 2 x 29,3          | T 50 B                 | 16        |



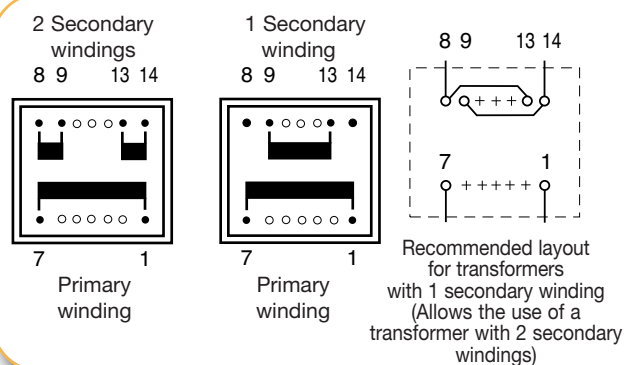


## PRIMARY VOLTAGE 117 V

| Primary protection mA | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|-----------------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
| 250                   | 44444     | 6                   | 3667                 | 6,8               | T 50 B                 | 22        |
| 250                   | 44445     | 9                   | 2444                 | 10,3              | T 50 B                 | 22        |
| 250                   | 44446     | 12                  | 1833                 | 13,7              | T 50 B                 | 22        |
| 250                   | 44447     | 15                  | 1467                 | 17,1              | T 50 B                 | 22        |
| 250                   | 44448     | 18                  | 1222                 | 20,5              | T 50 B                 | 22        |
| 250                   | 44449     | 24                  | 917                  | 27,3              | T 50 B                 | 22        |
| 250                   | 44450     | 2 x 6               | 2 x 1833             | 2 x 6,8           | T 50 B                 | 22        |
| 250                   | 44451     | 2 x 9               | 2 x 1222             | 2 x 10,3          | T 50 B                 | 22        |
| 250                   | 44452     | 2 x 12              | 2 x 917              | 2 x 13,7          | T 50 B                 | 22        |
| 250                   | 44453     | 2 x 15              | 2 x 733              | 2 x 17,1          | T 50 B                 | 22        |
| 250                   | 44454     | 2 x 18              | 2 x 611              | 2 x 20,5          | T 50 B                 | 22        |
| 250                   | 44455     | 2 x 24              | 2 x 458              | 2 x 27,3          | T 50 B                 | 22        |



- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 V0
- Degree of protection IP 00
- 550 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on primary side (see diagram) to be assumed by customer

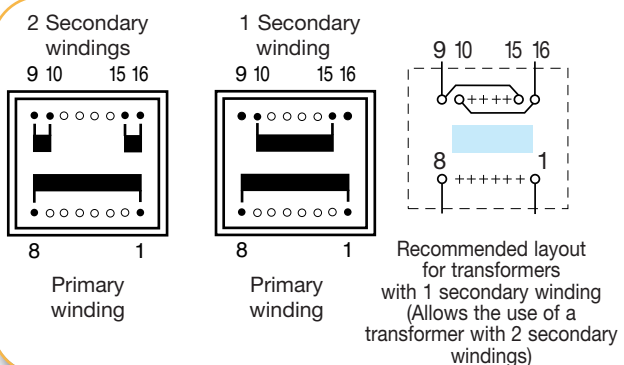


## PRIMARY VOLTAGE 117 V

| Primary protection mA | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|-----------------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
| 315                   | 44385     | 6                   | 5000                 | 6,9               | T 50 B                 | 30        |
| 315                   | 44386     | 9                   | 3333                 | 10,3              | T 50 B                 | 30        |
| 315                   | 44387     | 12                  | 2500                 | 13,8              | T 50 B                 | 30        |
| 315                   | 44388     | 15                  | 2000                 | 17,2              | T 50 B                 | 30        |
| 315                   | 44389     | 18                  | 1667                 | 20,8              | T 50 B                 | 30        |
| 315                   | 44390     | 24                  | 1250                 | 27,7              | T 50 B                 | 30        |
| 315                   | 44391     | 2 x 6               | 2 x 2500             | 2 x 6,9           | T 50 B                 | 30        |
| 315                   | 44392     | 2 x 9               | 2 x 1667             | 2 x 10,3          | T 50 B                 | 30        |
| 315                   | 44393     | 2 x 12              | 2 x 1250             | 2 x 13,8          | T 50 B                 | 30        |
| 315                   | 44394     | 2 x 15              | 2 x 1000             | 2 x 17,2          | T 50 B                 | 30        |
| 315                   | 44395     | 2 x 18              | 2 x 833              | 2 x 20,8          | T 50 B                 | 30        |
| 315                   | 44396     | 2 x 24              | 2 x 625              | 2 x 27,7          | T 50 B                 | 30        |



- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 V0
- Degree of protection IP 00
- 700 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on primary side (see diagram) to be assumed by customer





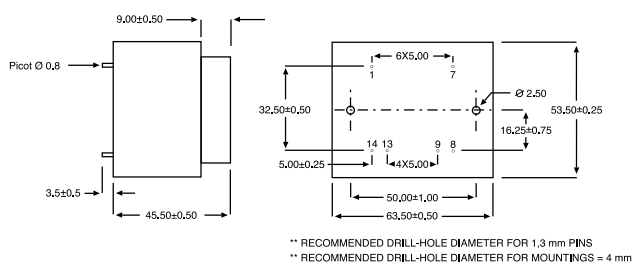
EN 61558-2-6



EN 60950

- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

\*To be noted : 2 x 24 V model is non-approved.  
Those transformers meet all requirement of EN 61558-2-4



## PRIMARY VOLTAGE 230 V

| Primary protection mA | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|-----------------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
| 125                   | 44432     | 6                   | 3667                 | 6,8               | T 50 B                 | 22        |
| 125                   | 44433     | 9                   | 2444                 | 10,3              | T 50 B                 | 22        |
| 125                   | 44434     | 12                  | 1833                 | 13,7              | T 50 B                 | 22        |
| 125                   | 44435     | 15                  | 1467                 | 17,1              | T 50 B                 | 22        |
| 125                   | 44436     | 18                  | 1222                 | 20,5              | T 50 B                 | 22        |
| 125                   | 44437     | 24                  | 917                  | 27,3              | T 50 B                 | 22        |
| 125                   | 44438     | 2 x 6               | 2 x 1833             | 2 x 6,8           | T 50 B                 | 22        |
| 125                   | 44439     | 2 x 9               | 2 x 1222             | 2 x 10,3          | T 50 B                 | 22        |
| 125                   | 44440     | 2 x 12              | 2 x 917              | 2 x 13,7          | T 50 B                 | 22        |
| 125                   | 44441     | 2 x 15              | 2 x 733              | 2 x 17,1          | T 50 B                 | 22        |
| 125                   | 44442     | 2 x 18              | 2 x 611              | 2 x 20,5          | T 50 B                 | 22        |
| 125                   | 44443*    | 2 x 24              | 2 x 458              | 2 x 27,3          | T 50 B                 | 22        |



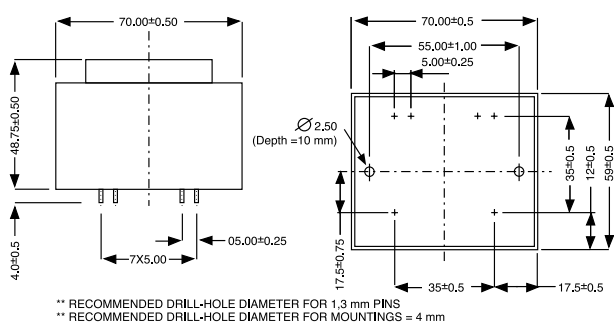
EN 61558-2-6



EN 60950

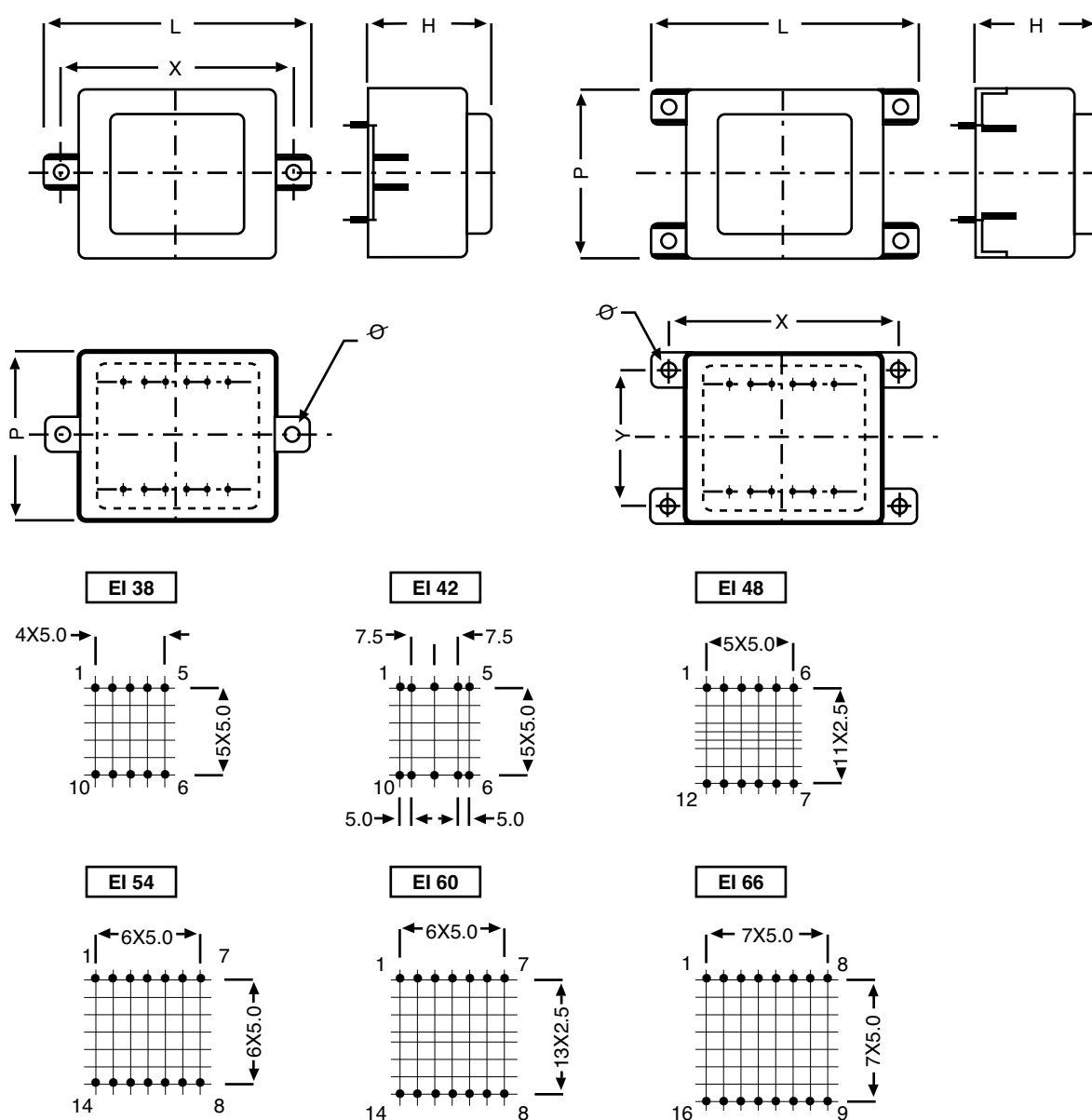
- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

\*To be noted : 2 x 24 V model is non-approved.  
Those transformers meet all requirement of EN 61558-2-4



## PRIMARY VOLTAGE 230 V

| Primary protection mA | Reference | Secondary voltage V | Secondary current mA | No-load voltage V | Ambient Temperature °C | Rating VA |
|-----------------------|-----------|---------------------|----------------------|-------------------|------------------------|-----------|
| 160                   | 44373     | 6                   | 5000                 | 6,9               | T 50 B                 | 30        |
| 160                   | 44374     | 9                   | 3333                 | 10,3              | T 50 B                 | 30        |
| 160                   | 44375     | 12                  | 2500                 | 13,8              | T 50 B                 | 30        |
| 160                   | 44376     | 15                  | 2000                 | 17,2              | T 50 B                 | 30        |
| 160                   | 44377     | 18                  | 1667                 | 20,8              | T 50 B                 | 30        |
| 160                   | 44378     | 24                  | 1250                 | 27,7              | T 50 B                 | 30        |
| 160                   | 44379     | 2 x 6               | 2 x 2500             | 2 x 6,9           | T 50 B                 | 30        |
| 160                   | 44380     | 2 x 9               | 2 x 1667             | 2 x 10,3          | T 50 B                 | 30        |
| 160                   | 44381     | 2 x 12              | 2 x 1250             | 2 x 13,8          | T 50 B                 | 30        |
| 160                   | 44382     | 2 x 15              | 2 x 1000             | 2 x 17,2          | T 50 B                 | 30        |
| 160                   | 44383     | 2 x 18              | 2 x 833              | 2 x 20,8          | T 50 B                 | 30        |
| 160                   | 44384*    | 2 x 24              | 2 x 625              | 2 x 27,7          | T 50 B                 | 30        |



| CIRCUIT      | L<br>± 0,50 | P<br>± 0,40 | H<br>± 0,40 | X<br>± 0,50 | Y<br>± 0,50 | Ø<br>± 0,3 |
|--------------|-------------|-------------|-------------|-------------|-------------|------------|
| EI 38 X 13,6 | 55,6        | 34,9        | 28,1        | 47,5        |             | 3,2        |
| EI 42 X 14,8 | 64          | 37          | 32,3        | 55,0        |             | 4,2        |
| EI 48 X 16,8 | 69          | 42,3        | 34,6        | 60          |             | 4,2        |
| EI 54 X 18,8 | 74          | 47,3        | 38,8        | 65          |             | 4,2        |
| EI 60 X 21   | 81,5        | 53,3        | 44,7        | 72,5        | 43,5        | 4,2        |
| EI 66 X 23   | 87,2        | 58,6        | 48,5        | 77,5        | 47,5        | 4,2        |

Series 44000 transformers can be equipped with boxes with lugs and also 2,8 «faston» terminal tags while still conforming to the specifications in the standard references.

- For boxes with 2 lugs and pin type output, add suffix 1 to the reference of the standard transformer (example : 44198-1)
- For boxes with 2 lugs and 2,8 «faston» output, add suffix 2 to the reference of the standard transformer (example : 44199-2)
- For boxes with 4 lugs and pin type output, add suffix 3 to the reference of the standard transformer (example : 44200-3)
- For boxes with 4 lugs and 2,8 «faston» output, add suffix 4 to the reference of the standard transformer (example : 44201-4)

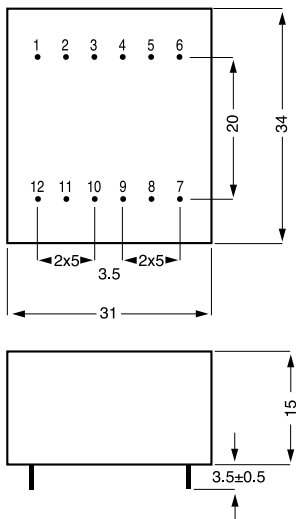
These models are not available on stock.



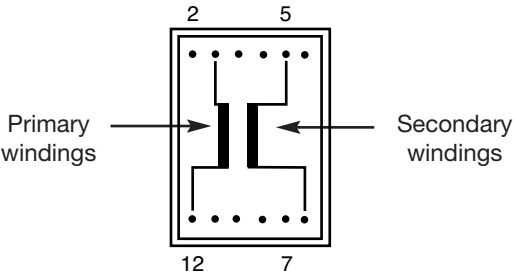
- 1 VA
- 230 V supply voltage by series/parallel connection
  - Vacuum filling
  - One compartment housing
  - Two compartments bobbins 0,8 VA
  - Degree of protection IP 00
  - 50 grams weight

- Resin UL 94 V0
- Design protection against short-circuits
- Insulation voltage 4 KV
- 100 % tested production

Conform to EN 61558 - UL 506



Type 1 VA



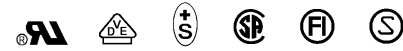
| PRIMARY VOLTAGE<br>230 V |           |                        |                          |                      |                           |
|--------------------------|-----------|------------------------|--------------------------|----------------------|---------------------------|
| Protection               | Reference | Secondary voltage<br>V | Secondary current<br>m A | No-load voltage<br>V | Ambient Temperature<br>°C |
| UI 21                    |           | 230 V                  | 1 VA                     |                      |                           |
|                          | 45001     | 6                      | 167                      | 11,4                 | T 70 B                    |
|                          | 45002     | 9                      | 111                      | 17                   | T 70 B                    |
|                          | 45003     | 12                     | 83                       | 22,8                 | T 70 B                    |
|                          | 45004     | 15                     | 67                       | 28,5                 | T 70 B                    |
|                          | 45005     | 18                     | 56                       | 34,2                 | T 70 B                    |
|                          | 45006     | 24                     | 42                       | 45,6                 | T 70 B                    |

QUALITY IN SERIES

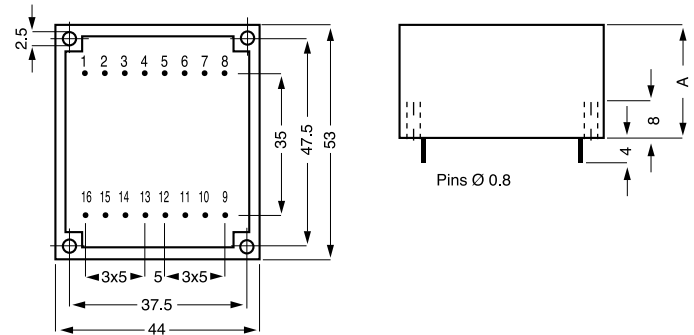


## PRIMARY VOLTAGE 115 V - 230 V

| Protection          | Reference | Secondary voltage V            | Secondary current mA | No-load voltage V | Ambient Temperature °C |
|---------------------|-----------|--------------------------------|----------------------|-------------------|------------------------|
| <b>UI 30 x 5,5</b>  |           | <b>2 VA</b>                    |                      |                   |                        |
|                     | 45292     | 2 x 6                          | 2 x 167              | 2 x 10,2          | T 70 B                 |
|                     | 45293     | 2 x 9                          | 2 x 111              | 2 x 15,9          | T 70 B                 |
|                     | 45294     | 2 x 12                         | 2 x 83               | 2 x 20,4          | T 70 B                 |
|                     | 45295     | 2 x 15                         | 2 x 67               | 2 x 25,5          | T 70 B                 |
|                     | 45296     | 2 x 18                         | 2 x 56               | 2 x 30,6          | T 70 B                 |
|                     | 45297     | 2 x 24                         | 2 x 42               | 2 x 40,8          | T 70 B                 |
| <b>UI 30 x 5,5</b>  |           | <b>Secondary protection mA</b> |                      | <b>3 VA</b>       |                        |
| 250                 | 45013     | 2 x 6                          | 2 x 250              | 2 x 9,8           | T 70 B                 |
| 160                 | 45014     | 2 x 9                          | 2 x 167              | 2 x 14,7          | T 70 B                 |
| 125                 | 45015     | 2 x 12                         | 2 x 125              | 2 x 19,6          | T 70 B                 |
| 100                 | 45016     | 2 x 15                         | 2 x 100              | 2 x 24,5          | T 70 B                 |
| 80                  | 45017     | 2 x 18                         | 2 x 83               | 2 x 29,5          | T 70 B                 |
| 63                  | 45018     | 2 x 24                         | 2 x 63               | 2 x 39,3          | T 70 B                 |
| <b>UI 30 x 7,5</b>  |           | <b>Secondary protection mA</b> |                      | <b>4 VA</b>       |                        |
| 315                 | 45019     | 2 x 6                          | 2 x 333              | 2 x 9,4           | T 70 B                 |
| 250                 | 45020     | 2 x 9                          | 2 x 222              | 2 x 14,0          | T 70 B                 |
| 160                 | 45021     | 2 x 12                         | 2 x 167              | 2 x 18,6          | T 70 B                 |
| 125                 | 45022     | 2 x 15                         | 2 x 133              | 2 x 23,3          | T 70 B                 |
| 125                 | 45023     | 2 x 18                         | 2 x 111              | 2 x 28,0          | T 70 B                 |
| 80                  | 45024     | 2 x 24                         | 2 x 83               | 2 x 37,4          | T 70 B                 |
| <b>UI 30 x 10,5</b> |           | <b>Secondary protection mA</b> |                      | <b>6 VA</b>       |                        |
| 500                 | 45025     | 2 x 6                          | 2 x 500              | 2 x 8,1           | T 70 B                 |
| 315                 | 45026     | 2 x 9                          | 2 x 333              | 2 x 12,1          | T 70 B                 |
| 250                 | 45027     | 2 x 12                         | 2 x 250              | 2 x 16,2          | T 70 B                 |
| 200                 | 45028     | 2 x 15                         | 2 x 200              | 2 x 20,2          | T 70 B                 |
| 160                 | 45029     | 2 x 18                         | 2 x 167              | 2 x 24,3          | T 70 B                 |
| 125                 | 45030     | 2 x 24                         | 2 x 125              | 2 x 32,3          | T 70 B                 |
| <b>UI 30 x 16,5</b> |           | <b>Primary protection mA</b>   |                      | <b>10 VA</b>      |                        |
| 125/63              | 45031     | 2 x 6                          | 2 x 833              | 2 x 7,9           | T 50 B                 |
| 125/63              | 45032     | 2 x 9                          | 2 x 556              | 2 x 11,9          | T 50 B                 |
| 125/63              | 45033     | 2 x 12                         | 2 x 417              | 2 x 15,9          | T 50 B                 |
| 125/63              | 45034     | 2 x 15                         | 2 x 333              | 2 x 19,8          | T 50 B                 |
| 125/63              | 45035     | 2 x 18                         | 2 x 278              | 2 x 23,7          | T 50 B                 |
| 125/63              | 45036     | 2 x 24                         | 2 x 208              | 2 x 31,7          | T 50 B                 |

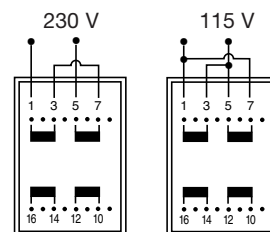


- 115 V- 230 V supply voltage by series/parallel connection
- Vacuum filling
- Two compartments bobbins
- Degree of protection IP 00
- Resin class UL 94 V0

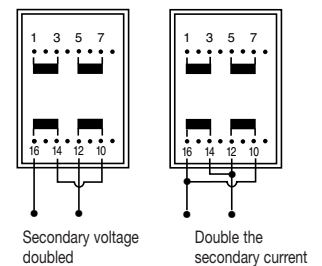


| CIRCUIT      | RATING    | DIMENSION A | WEIGHT |
|--------------|-----------|-------------|--------|
| UI 30 x 5,5  | 2 VA/3 VA | A = 17 mm   | 125 g  |
| UI 30 x 7,5  | 4 VA      | A = 19 mm   | 150 g  |
| UI 30 x 10,5 | 6 VA      | A = 22 mm   | 185 g  |
| UI 30 x 16,5 | 10 VA     | A = 28 mm   | 260 g  |

Possible primary connections

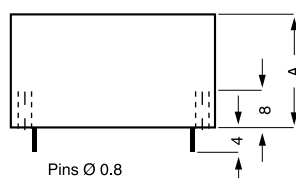
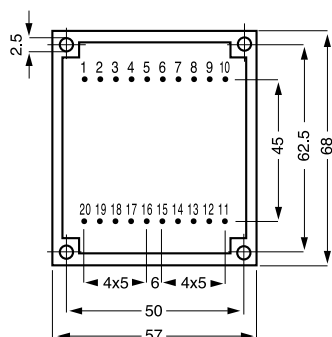


Possible secondary connections





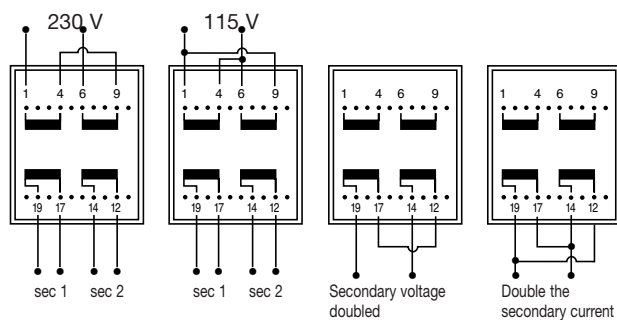
- Fuse protection in secondary winding (see diagram)
- Insulation voltage 4 KV
- 100 % tested production
- Conform to EN 61558  
Approval under process
- UL 506 approved



| CIRCUIT      | RATING | DIMENSION A | WEIGHT |
|--------------|--------|-------------|--------|
| UI 39 x 8    | 10 VA  | A = 22 mm   | 285 g  |
| UI 39 x 10,2 | 14 VA  | A = 24 mm   | 335 g  |
| UI 39 x 13,5 | 18 VA  | A = 27 mm   | 405 g  |
| UI 39 x 17   | 24 VA  | A = 31 mm   | 480 g  |
| UI 39 x 21   | 30 VA  | A = 35 mm   | 550 g  |

Possible primary connections

Possible secondary connections



## PRIMARY VOLTAGE 115 V - 230 V

| Primary protection<br>115 V/230 V<br>mA | Reference | Secondary voltage<br>V | Secondary current<br>mA | No-load voltage<br>V | Ambient Temperature<br>°C |
|-----------------------------------------|-----------|------------------------|-------------------------|----------------------|---------------------------|
| <b>UI 39 x 8</b>                        |           | <b>10 VA</b>           |                         |                      |                           |
| 125/63                                  | 45037     | 2 x 6                  | 2 x 833                 | 2 x 8,2              | T 50 B                    |
| 125/63                                  | 45038     | 2 x 9                  | 2 x 555                 | 2 x 12,3             | T 50 B                    |
| 125/63                                  | 45039     | 2 x 12                 | 2 x 416                 | 2 x 16,4             | T 50 B                    |
| 125/63                                  | 45040     | 2 x 15                 | 2 x 333                 | 2 x 20,5             | T 50 B                    |
| 125/63                                  | 45041     | 2 x 18                 | 2 x 277                 | 2 x 24,6             | T 50 B                    |
| 125/63                                  | 45042     | 2 x 24                 | 2 x 208                 | 2 x 32,8             | T 50 B                    |
| <b>UI 39 x 10,2</b>                     |           | <b>14 VA</b>           |                         |                      |                           |
| 160/80                                  | 45043     | 2 x 6                  | 2 x 1167                | 2 x 7,5              | T 50 B                    |
| 160/80                                  | 45044     | 2 x 9                  | 2 x 778                 | 2 x 10,9             | T 50 B                    |
| 160/80                                  | 45045     | 2 x 12                 | 2 x 583                 | 2 x 15,0             | T 50 B                    |
| 160/80                                  | 45046     | 2 x 15                 | 2 x 467                 | 2 x 18,7             | T 50 B                    |
| 160/80                                  | 45047     | 2 x 18                 | 2 x 389                 | 2 x 22,4             | T 50 B                    |
| 160/80                                  | 45048     | 2 x 24                 | 2 x 292                 | 2 x 30,2             | T 50 B                    |
| <b>UI 39 x 13,5</b>                     |           | <b>18 VA</b>           |                         |                      |                           |
| 200/100                                 | 45049     | 2 x 6                  | 2 x 1500                | 2 x 7,4              | T 50 B                    |
| 200/100                                 | 45050     | 2 x 9                  | 2 x 1000                | 2 x 11,0             | T 50 B                    |
| 200/100                                 | 45051     | 2 x 12                 | 2 x 750                 | 2 x 14,7             | T 50 B                    |
| 200/100                                 | 45052     | 2 x 15                 | 2 x 600                 | 2 x 18,3             | T 50 B                    |
| 200/100                                 | 45053     | 2 x 18                 | 2 x 500                 | 2 x 22,0             | T 50 B                    |
| 200/100                                 | 45054     | 2 x 24                 | 2 x 375                 | 2 x 29,4             | T 50 B                    |
| <b>UI 39 x 17</b>                       |           | <b>24 VA</b>           |                         |                      |                           |
| 250/125                                 | 45055     | 2 x 6                  | 2 x 2000                | 2 x 7,1              | T 50 B                    |
| 250/125                                 | 45056     | 2 x 9                  | 2 x 1333                | 2 x 10,6             | T 50 B                    |
| 250/125                                 | 45057     | 2 x 12                 | 2 x 1000                | 2 x 14,1             | T 50 B                    |
| 250/125                                 | 45058     | 2 x 15                 | 2 x 800                 | 2 x 17,6             | T 50 B                    |
| 250/125                                 | 45059     | 2 x 18                 | 2 x 667                 | 2 x 21,2             | T 50 B                    |
| 250/125                                 | 45060     | 2 x 24                 | 2 x 500                 | 2 x 28,3             | T 50 B                    |
| <b>UI 39 x 21</b>                       |           | <b>30 VA</b>           |                         |                      |                           |
| 315/160                                 | 45061     | 2 x 6                  | 2 x 2500                | 2 x 6,7              | T 50 B                    |
| 315/160                                 | 45062     | 2 x 9                  | 2 x 1667                | 2 x 10,15            | T 50 B                    |
| 315/160                                 | 45063     | 2 x 12                 | 2 x 1250                | 2 x 13,5             | T 50 B                    |
| 315/160                                 | 45064     | 2 x 15                 | 2 x 1000                | 2 x 16,8             | T 50 B                    |
| 315/160                                 | 45065     | 2 x 18                 | 2 x 833                 | 2 x 20,2             | T 50 B                    |
| 315/160                                 | 45066     | 2 x 24                 | 2 x 625                 | 2 x 27,0             | T 50 B                    |

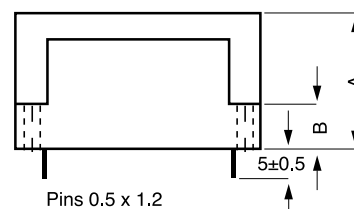
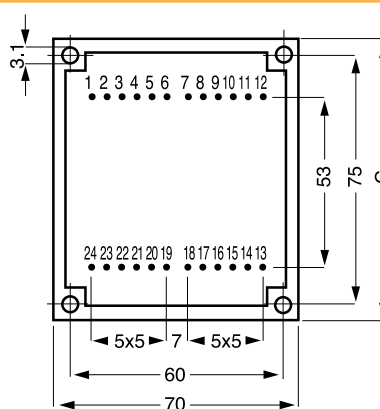


- 115 V- 230 V supply voltage  
by series/parallel connection
- Vacuum filling
- Two compartments bobbins
- Degree of protection IP 00
- Resin class UL 94 V0

- Fuse protection in secondary winding (see diagram)
- Insulation voltage 4 KV
- 100 % tested production
- Conform to EN 61558  
Approval under process
- UL 506 approved

## PRIMARY VOLTAGE 115 V - 230 V

| Primary protection<br>115/230 V<br>mA | Reference | Secondary voltage<br>V | Secondary current<br>mA | No-load voltage<br>V | Ambient Temperature<br>°C |
|---------------------------------------|-----------|------------------------|-------------------------|----------------------|---------------------------|
| <b>UI 48 x 17</b>                     |           | <b>40 VA</b>           |                         |                      |                           |
| 400/200                               | 45067     | 2 x 6                  | 2 x 3333                | 2 x 6,7              | T 50 B                    |
| 400/200                               | 45068     | 2 x 9                  | 2 x 2222                | 2 x 10,0             | T 50 B                    |
| 400/200                               | 45069     | 2 x 12                 | 2 x 1667                | 2 x 13,4             | T 50 B                    |
| 400/200                               | 45070     | 2 x 15                 | 2 x 1333                | 2 x 16,7             | T 50 B                    |
| 400/200                               | 45071     | 2 x 18                 | 2 x 1111                | 2 x 20,1             | T 50 B                    |
| 400/200                               | 45072     | 2 x 24                 | 2 x 833                 | 2 x 26,8             | T 50 B                    |
| <b>UI 48 x 26</b>                     |           | <b>60 VA</b>           |                         |                      |                           |
| 630/315                               | 45073     | 2 x 6                  | 2 x 5000                | 2 x 6,6              | T 50 B                    |
| 630/315                               | 45074     | 2 x 9                  | 2 x 3333                | 2 x 9,9              | T 50 B                    |
| 630/315                               | 45075     | 2 x 12                 | 2 x 2500                | 2 x 13,1             | T 50 B                    |
| 630/315                               | 45076     | 2 x 15                 | 2 x 2000                | 2 x 16,4             | T 50 B                    |
| 630/315                               | 45077     | 2 x 18                 | 2 x 1667                | 2 x 19,7             | T 50 B                    |
| 630/315                               | 45078     | 2 x 24                 | 2 x 1250                | 2 x 26,3             | T 50 B                    |



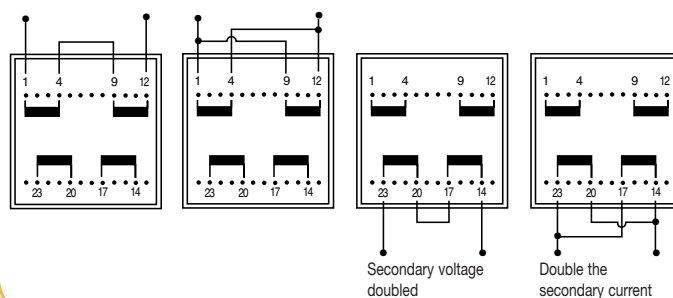
| CIRCUIT    | RATING | A    | B    | C  | WEIGHT |
|------------|--------|------|------|----|--------|
| UI 48 x 17 | 40 VA  | 38,5 | 13,5 | 83 | 760 g  |
| UI 48 x 26 | 60 VA  | 48,5 | 14,5 | 86 | 1060 g |

Possible primary  
connections

Possible secondary  
connections

230 V

115 V



## QUALITY IN SERIES