

# TRA300 Isolation Transformer



**Safe Galvanic Isolation Transformer with shielding winding**

**Dual Input Voltage 230 and 400 Vac**

**Dual Output Voltage 0 – 115 / 0 – 115Vac**

**Shielding winding between input and output**

**Reduce inrush current**

**High performance for the volume of compact design**

**Very good corrosion protection and low noise due to vacuum impregnation**

**DIN Rail Clamp for Size 300VA**

**Double isolation Class II**

**Isolation test: 5000 Vac / 6000 Vdc**

## Features

The New TRA Line, Safe Galvanic Isolation Transformer are the perfect choice per general purpose or industrial application, when it is required a Galvanic isolation to limit the leakage current or establish a strong protection in isolated area against Surge.

They ensure continuous supply of your controls circuit combined with robust design. The insulating transformer are available in the range from 300 up to 1000W. DIN rail version in 300VA. Under request UL version for US market.

## Input Data

Nominal Input Voltage (2 x Vac)	<b>230 – 400 Vac</b>
Manual select Input from 230 to 400 Vac	
Input Voltage range: (230)	<b>207 – 253 Vac</b>
(400)	<b>360 – 440 Vac</b>
Frequency	<b>47 – 63 Hz</b>
External Fuse (recommended)	<b>10 A (MCB curve C)</b>

## Output Data

Output Secondary winding Double	<b>0-115 / 0-115 Vac</b>
Rated Power in VA	<b>300 VA</b>
Efficiency	<b>≥ 87 %</b>
Max Dissipation Power at Vn In 40°C	<b>20 W</b>
Output sustained overvoltage	<b>9% (no load, hot state)</b>
Ma. Voltage drop at rated load	<b>0.6%</b>
No load losses	<b>8 W</b>
Short Circuit Voltage	<b>0.0832</b>
Output Overload protection	<b>external</b>
Output Overvoltage protection	<b>external</b>
Output Short Circuit protection	<b>external</b>

## Climatic Data

Ambient Temperature operation	<b>-25 up to +70 °C</b> ( <b>&gt;60°derating 2.5% °C</b> )
Ambient Temperature Storage	<b>-40 up to +85 °C</b>
Humidity at 25 °C, no condensation	<b>95 % to 25 °C</b>
Altitude: 0 to 2 000m - 0 to 6 560ft	<b>No restrictions</b>
Altitude: 2 000 to 6 000m - 6 560 to 20 000ft	<b>De-rating 5°C/1000m</b>
Cooling	<b>Auto convention</b>

## General Data

Isolation Voltage (In / Out)	<b>5000 Vac</b>
Isolation Voltage (In / PE)	<b>2000 Vac</b>
Isolation Voltage (Out / PE)	<b>2000 Vac</b>
Electrical Insulation class	<b>Class B</b>
Overvoltage Category: conforming to VDE 0106-1	<b>Class I</b>
Protection Class (EN/IEC 60529)	<b>IP 20</b>
Reliability: MTBF IEC 61709	<b>&gt; 500.000 h</b>
Pollution Degree Environment	<b>2</b>
Input Connection Terminal Blocks Screw Type	<b>2,5 mm<sup>2</sup> (24 – 14 AWG)</b>
Output Connection Terminal Blocks Screw Type	<b>2,5 mm<sup>2</sup> (24 – 14 AWG)</b>
Ground Connection Terminal Blocks Screw Type	<b>Faston</b>
Fixing Mode	<b>By 4 screws diameter: 6,3 mm</b>

Protective Treatment	<b>TC</b>
Protection class	<b>I with PE connected</b>
Protective Cover	<b>Without</b>
Dimension (w-h-d)	<b>125x120x100 mm</b>
Dimension (J - G)	<b>70x100 mm</b>
Weight	<b>4.3 kg approx.</b>

## Norms and certifications

The CE mark in According to EMC 2014/30/UE and Low voltage directive 2014/35/UE.

## Electrical Safety

According to IEC/EN 60950 (VDE 0805) e EN 50178 (VDE 0160) for assembling device. The unit must be installed according to IEC/EN 60950. Input / Output separation: SELV EN60950-1 and PELV EN 60204-1. Double or reinforced insulation.

## EMC Immunity to: EN 62041

EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN61000-6-2

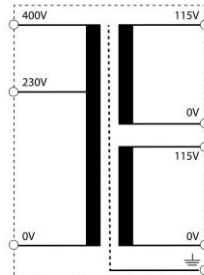
## EMC Emission:

EN61000-6-4; EN61000-3-3

## Standards Conformity

EN 60204-1 Safety of EN61010; EN 61558-1; EN 61558-2-6

## Electrical Diagram



## Drawings

