

TRA1000 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

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

Output Data

Output Secondary winding Double	0-115 / 0-115 Vac
Rated Power in VA	1000 VA
Efficiency	≥ 87 %
Max Dissipation Power at Vn In 40°C	60W
Output sustained overvoltage	9% (no load, hot state)
Ma. Voltage drop at rated load	0.6%
No load losses	7 W
Short Circuit Voltage	0.0832
Output Overload protection	external
Output Overvoltage protection	external
Output Short Circuit protection	external

Climatic Data

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

General Data

Isolation Voltage (In / Out)	5000 Vac
Isolation Voltage (In / PE)	2000 Vac
Isolation Voltage (Out / PE)	2000 Vac
Electrical Insulation class	Class B
Overvoltage Category: conforming to VDE 0106-1	Class I
Protection Class (EN/IEC 60529)	IP 20
Reliability: MTBF IEC 61709	> 500.000 h
Pollution Degree Environment	2
Input Connection Terminal Blocks Screw Type	2,5 mm² (24 – 14 AWG)
Output Connection Terminal Blocks Screw Type	2,5 mm² (24 – 14 AWG)
Ground Connection Terminal Blocks Screw Type	Faston 6.3mm
Fixing Mode	By 4 screws diameter: 6 mm

Protective Treatment	TC
Protection class	I with PE connected
Protective Cover	Without
Dimension (w-h-d)	155x160x140 mm
Dimension (J - G)	110x125 mm
Weight	10.6 kg approx.

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

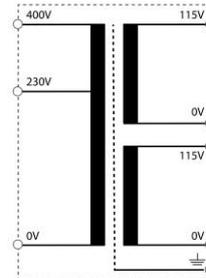
EMC Emission:

EN61000-6-4; EN61000-3-3

Standards Conformity

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

Electrical Diagram



Drawings

