

# ATX™ TRE Series Ex e Transformers

Increased Safety

ATEX/IECEX: Zones 1 and 2  
Notable: UKEX, INMETRO Certified

## Applications

- Equipment transformers are useful where the available voltage must be changed to accommodate the voltage required by the load and safety voltage.
- Suitable for use in certified increased safety enclosures and OEM increased safety applications.
- Requires primary and secondary protection by fuses or Branch Circuit Breaker.

## Features

- Single phase 50/60 Hz.
- Class I.
- Circuit insulation voltage between:
  - 4500 V between windings.
  - 2300 V between primary winding and earth.
  - 1800 V between secondary winding and earth.
- Ex e Terminals capacity 4 mm<sup>2</sup> (0.006 in<sup>2</sup>).

## Standard Materials

- Copper windings
- Insulation Class F

## ATEX/IECEX Certifications and Compliances

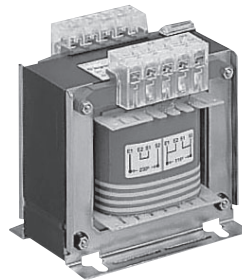
- Certification Type: TRE
  - Gas, Zones 1 and 2
  - Conforming to ATEX 2014/34/EU: Ⓔ II 2 G
  - Type of Protection: Ex eb IIC Gb
  - Service Temperature: -20 °C to +90 °C (-20 °C to +90 °C)
  - ATEX Certificate: LCIE 15 ATEX 3042U
  - IECEx Certificate : IECEx LCIE 15.0034U

## UKEX Certifications

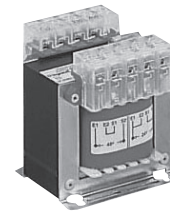
- UKEX Certificate: CML21UKEX3197U

## INMETRO Certifications

- INMETRO Certificate: BVC17.5705-U



400 VA



100 VA

Control Stations and Panels

## Catalog Numbering Guide

**TRE**  
|  
Series  
TRE - ATEX/IECEX Certified  
Transformer

**100**  
|  
Power:  
100 - 100 VA  
160 - 160 VA  
250 - 250 VA  
400 - 400 VA

**A**  
|  
Primary Voltage:  
A - 230/400 V  
B - 240/415 V

**2**  
|  
Secondary Voltage:  
2 - 24/48 V  
3 - 2 x 110 V

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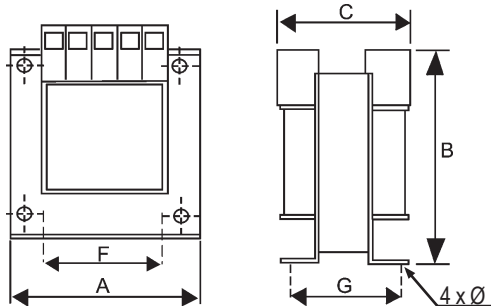
Primary	Secondary	Power	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Certified Type	Catalog Number
230/400 V	24/48 V	100 VA	2.7 (5.95)	4 (244)	TSN	TRE100A2
		160 VA	4.9 (10.80)	4 (244)	TSN	TRE160A2
		250 VA	5.4 (11.90)	7 (427)	TSN	TRE250A2
		400 VA	6.9 (153.21)	7 (427)	TSN	TRE400A2
	2x110 V	100 VA	2.7 (5.95)	4 (244)	TSCN	TRE100A3
		160 VA	4.9 (10.80)	4 (244)	TSCN	TRE160A3
		250 VA	5.4 (11.90)	7 (427)	TSCN	TRE250A3
		400 VA	6.9 (153.21)	7 (427)	TSCN	TRE400A3
240/415 V	24/48 V	100 VA	2.7 (5.95)	4 (244)	TSN	TRE100B2
		160 VA	4.9 (10.80)	4 (244)	TSN	TRE160B2
		250 VA	5.4 (11.90)	7 (427)	TSN	TRE250B2
		400 VA	6.9 (153.21)	7 (427)	TSN	TRE400B2

## Overcurrent Protection

Power	Power Loss	Primary Overcurrent Protection						Secondary Overcurrent Protection					
		Fuses		MCB Curve C	MCB Curve D	MCB Curve C	MCB Curve D	Fuses			MCB Curve C		
		230/240 V	400/415 V	230/240 V	400/415 V	24 V	48 V	110 V	24 V	48 V	110 V		
100 VA	6 W	1A aM	1A aM	3 A	1 A	2 A	1 A	4 A gG	2 A gG	1 A gG	4 A	2 A	1 A
160 VA	10 W	2A aM	1A aM	6 A	2 A	2 A	1 A	8 A gG	4 A gG	1 A gG	6 A	4 A	2 A
250 VA	15 W	2A aM	2A aM	6 A	3 A	3 A	2 A	10 A gG	6 A gG	2 A gG	10 A	6 A	2 A
400 VA	25 W	4A aM	2A aM	10 A	6 A	6 A	2 A	16 A gG	8 A gG	4 A gG	16 A	4 A	4 A

## Dimensions in Millimeters (Inches)

Power	A	B	C	Fixing		Ø	Weight kg (lb)
				F	G		
100 VA	94 (3.70)	91 (3.58)	91 (3.58)	64 (2.52)	66 (2.60)	4.8 (0.19)	1.8 (3.97)
160 VA	96 (3.78)	102 (4.02)	96 (3.78)	84 (3.31)	78 (3.07)	5.8 (0.23)	3.2 (7.05)
150 VA	108 (4.25)	110 (4.33)	100 (3.94)	84 (3.31)	82 (3.23)	5.8 (0.23)	4.4 (9.70)
400 VA	126 (4.96)	126 (4.96)	115 (4.53)	90 (3.54)	99 (3.90)	6.5 (0.26)	6.0 (13.23)



Control Stations and Panels