

TRE Series Ex e Transformers

Increased Safety

Zone 1 and 2
Gas (G)

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

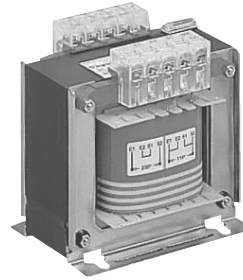
- Single phase 50/60 Hz.
- Class I.
- Primary voltages are with tolerance +/- 15V.
- Circuit insulation voltage between:
 - 4500 V between windings.
 - 2300 V between primary winding and earth.
 - 1800 V between secondary winding and earth.
- Ex e Terminals capacity 4 mm².

Standard Materials

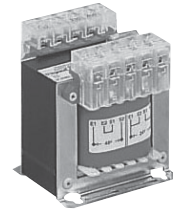
- Copper windings
- Insulation Class F

Certifications and Compliances

- ◆ **ATEX/IECEX Certification**
- **Certification Type TRE**
 - Gas, Zones 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
 - Type of Protection: Ex eb IIC
 - Service Temperature: -20 °C to +90 °C
 - CE Declaration of Conformity: 5C259
 - ATEX Certificate: LCIE 15 ATEX 3042U
 - IECEX Certificate : IECEX LCIE 15.0034U



400 VA



100 VA

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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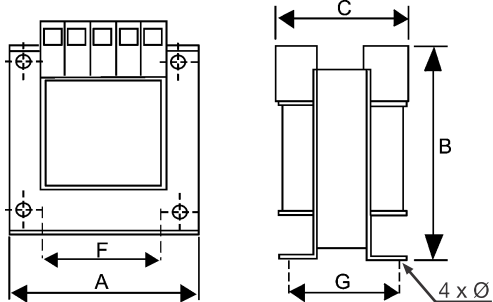
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Zone 1 and 2
Gas (G)

Primary	Secondary	Power	Weight kg	Volume dm ³	Certified Type	Catalog Number
230/400 V	24/48 V	100 VA	2.7	4	TRE	TRE100A2
		160 VA	4.9	4	TRE	TRE160A2
		250 VA	5.4	7	TRE	TRE250A2
		400 VA	6.9	7	TRE	TRE400A2
	2x110 V	100 VA	2.7	4	TRE	TRE100A3
		160 VA	4.9	4	TRE	TRE160A3
		250 VA	5.4	7	TRE	TRE250A3
		400 VA	6.9	7	TRE	TRE400A3
240/415 V	24/48 V	100 VA	2.7	4	TRE	TRE100B2
		160 VA	4.9	4	TRE	TRE160B2
		250 VA	5.4	7	TRE	TRE250B2
		400 VA	6.9	7	TRE	TRE400B2

Dimensions in Millimeters

Power	A	B	C	F	Fixing		Weight kg
					G	Ø	
100 VA	94	91	91	64	66	4.8	1.8
160 VA	96	102	96	84	78	5.8	3.2
150 VA	108	110	100	84	82	5.8	4.4
400 VA	126	126	115	90	99	6.5	6.0



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

Shaded catalog numbers are normally stocked items. All other items are made to order.