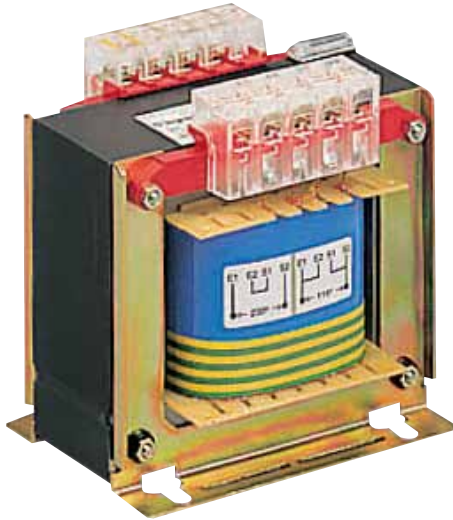


# Control Stations & Switches: Components for Increased Safety Enclosures

TRE Series: Ex e Transformers



400 VA version



100 VA version

## Compliances:

ATEX - IEC:



Zone 1 – 2	ATEX	II 2 G	IEC	CE
Ex e II				

## Electrical Data:

Primary	Secondary	Power		
230/400 V	24 V/48 V	100 VA up to 400 VA		
240 V/415 V	2 x 110 V			

## Service Temperature:

-20°C to +80°C				
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# Control Stations & Switches: Components for Increased Safety Enclosures

## TRE Series: Ex e Transformers

Zone 1 & 2

Ex II 2 G

ATEX / IEC

### 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:

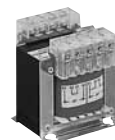
- Single phase 50/60 Hz.
- Class I.
- Circuit insulation voltage between:
  - 4500 V between windings.
  - 2300 V between primary winding and earth.
  - 1800 V between secondary winding and earth.
- Ex e Terminals capacity 4 mm<sup>2</sup>.

### Standard Material of Fixtures:

- Copper windings.
- Insulation Class F.



400 VA version



100 VA version

### Catalog Number Logic:

<b>TRE</b>	<b>XXX</b>	<b>X</b>	<b>X</b>
↑	↑	↑	↑
Series: TRE = TRE Series Zone 1, 2 ATEX / IEC Certified	Power: 100 = 100 VA    250 = 250 VA 160 = 160 VA    400 = 400 VA	Primary Voltage: A = 230/400 V B = 240/415 V	Secondary Voltage: 2 = 24/48 V 3 = 2 x 110 V

### Ordering Information:

Primary	Secondary	Power	Weight (kg)	Volume (dm <sup>3</sup> )	Certified Type	Catalog Number	Old Catalog Number	Pack
230/400 V	24/48 V	100 VA	2.7	4	TSN	TRE100A2	096670	1
230/400 V	24/48 V	160 VA	4.9	4	TSN	TRE160A2	096671	1
230/400 V	24/48 V	250 VA	5.4	7	TSN	TRE250A2	096672	1
230/400 V	24/48 V	400 VA	6.9	7	TSN	TRE400A2	096673	1
230/400 V	2x110 V	100 VA	2.7	4	TSCN	TRE100A3	096674	1
230/400 V	2x110 V	160 VA	4.9	4	TSCN	TRE160A3	096675	1
230/400 V	2x110 V	250 VA	5.4	7	TSCN	TRE250A3	096676	1
230/400 V	2x110 V	400 VA	6.9	7	TSCN	TRE400A3	096677	1
240/415 V	24/48 V	100 VA	2.7	4	TSN	TRE100B2	096678	1
240/415 V	24/48 V	160 VA	4.9	4	TSN	TRE160B2	096679	1
240/415 V	24/48 V	250 VA	5.4	7	TSN	TRE250B2	096680	1
240/415 V	24/48 V	400 VA	6.9	7	TSN	TRE400B2	096681	1

### Technical Data:

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

# Control Stations & Switches: Components for Increased Safety Enclosures

## TRE Series: Ex e Transformers

Zone 1 & 2

II 2 G

ATEX / IEC

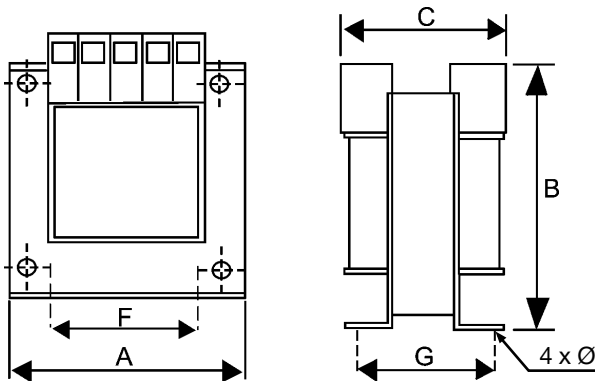
### Compliances:

Hazardous Area	Gas
Certification Type	TSN/TSCN
Zones	1-2
Conforming to ATEX 94/9/CE	0081 II 2 G
Symbol of Protection ATEX	Ex e II
Symbol of Protection IEC	
T Rating	N.A.
Service Temperature	-20°C to +80°C
CE Declaration of Conformity	5C222
ATEX Certificate	LCIE 03 ATEX 0021U
IEC Certificate	LCIE Ex 04.010U
Other Certifications	N.A.
Ingress Protection (solid and liquid)	N.A.
Impact Resistance (shock)	N.A.

### Standards:

<b>Ex Standards</b>	EN / IEC 60079-0; 60079-7
<b>Product Standards</b>	EN 61558-2-4; 61558-2-6
<b>EMC Standards</b>	-
<b>Other Standards</b>	-

### Dimensions (mm):



Power	Fixing						Weight (kg)
	A	B	C	F	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