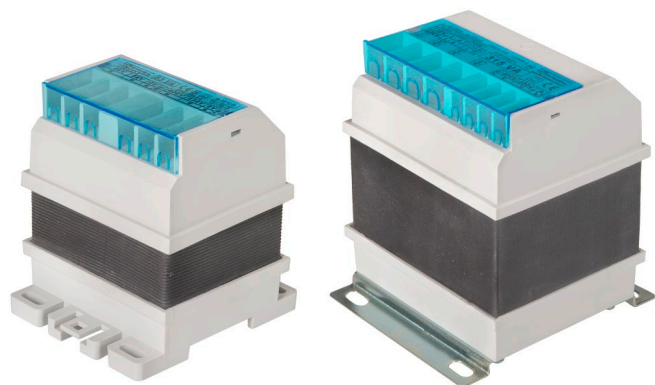



Measurement transformers

Potential transformer



Technical characteristics


Power rating	3 ÷ 150 VA (Class 0,5) 5 ÷ 250 VA (Class 1)
Input voltage	max. $690V/\sqrt{3}$
Output voltage	$100V/\sqrt{3}$
Accuracy	Class 0,5 Class 1
Frequency	50/60 Hz
Ambient temperature	40 °C
Insulation class	B (130 °C)
Protection degree	IP-20
Safety class	Class II 
Test voltage	4 kV
Continuous overvoltage	+20%
Thermal current	$6 \times I_N$
Standard	IEC/UNE-EN 61869-3



Current transformer



Technical characteristics

Power rating	5 ÷ 10 VA
Primary current	50 ÷ 1000 A
Secondary current	5 A
Accuracy	Class 1
Voltage service	690 V
Ambient temperature	40 °C
Insulation class	B (130 °C)
Protection degree	IP-20
Safety class	Class II 
Connection type	Screw
Screw fixing	
Busbar or cable-through	
Standard	IEC/UNE-EN 61869-2



SERIES MT & MI

The application of measurement transformers is normally reduction of a higher to a lower voltage or current values that can be measured by protection relays and measurement instruments.

The relation between the primary and secondary is very accurate, independent of primary and load (as long as within the limits of transformer specifications) and 0° shift phase angle. The accuracy class is indicating the maximum error in voltage or current relation, for example class 1 means 1% error.

These transformers provide insulation and separation of circuits and measurement devices from the voltage lines.

To define the transformer power VA, sum all the power consumed by the external loads connected to the transformer and the power consumed by the interconnecting leads. It is recommended to select the closer higher rating because accuracy and safety factor could be changed.

Accuracy:

Class 0,5: Precision and tariff equipments.

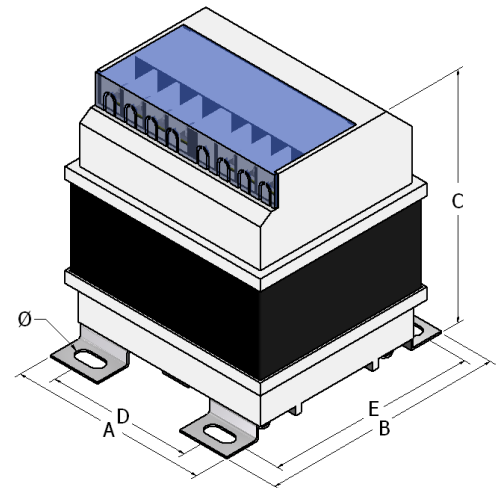
Class 1: Industrial measurement equipments.

Turns:

The number of turns of the primary cable converts the primary current value proportionally to secondary current (not modify accuracy).

Series MT Potential Transformers

Rating VA		Ref.	Dimensions mm						Weight kg
Class 0,5	Class 1		A	B	C	D	E	∅	
3	5	MT003	82	90	96	58	79	5,5x12	1,4
5	7,5	MT005	82	90	106	58	79	5,5x12	1,6
10	15	MT010	94	106	117	58	90	7x14	2,5
15	25	MT015	105	115	116	70	99	7x14	2,9
30	50	MT030	115	123	134	80	106	7x14	4,5
50	75	MT050	135	148	148	91	132	7x15	6,5
100	150	MT100	150	158	190	124	143	7x15	12,7
150	250	MT150	150	158	228	124	143	7x15	17,8

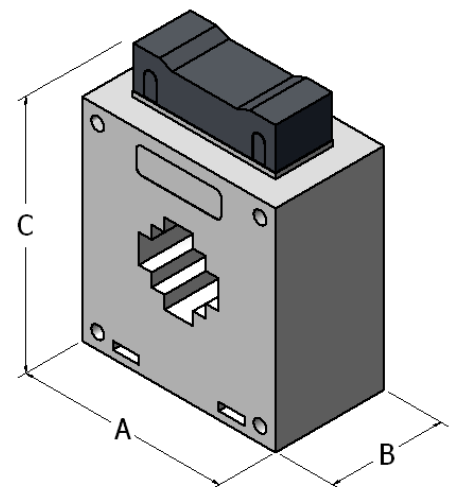


* Other features, power, voltage, etc., on request

* Torytrans reserves the right to modify the information in any time and without prior notice.

Series MI Current Transformers

Current Ratio A	Power VA	Ref.	Dimensions mm			Weight kg	Central section mm
	Class 1		A	B	C		
50/5	5	MI050 ⁽³⁾	75	42	100	0,4	∅20 30x10
100/5	5	MI100 ⁽²⁾	75	42	100	0,4	
150/5	5	MI150	75	42	100	0,4	
200/5	5	MI200	75	42	100	0,4	∅32 40x10
250/5	5	MI250	75	42	100	0,4	
300/5	5	MI300	75	42	100	0,4	
400/5	5	MI400	102	40	128	0,6	∅46 60x20
500/5	5	MI500	102	40	128	0,6	
600/5	5	MI600	102	40	128	0,6	
800/5	10	MI800	102	40	128	0,6	
1000/5	10	MI1000	102	40	128	0,6	



(3) Perform 3 turns of the primary cable through the transformer

(2) Perform 2 turns of the primary cable through the transformer

* Other central section or current range on request.