

# Current Transformers

## Plastic casing type

Secure offers a comprehensive range of plastic casing type current transformers that are accurate and reliable and takes care of most customer requirements.

- Solid or single core transformers
- Standard range: - 40 to 400A, 1 or 5A secondary



## Technical specifications

### Technical data

Standards	IEC 60044-1
Accuracy class	I (.5 and 1)
Rated burden	see product range
Rated voltage	415 V, 50-60 Hz (phase to phase)
Highest system voltage	720 V
Rated continuous thermal current temperature rise over ambient	As per IEC 60044-1
No. of cores	One
Continuous primary current	1.2 times of rated current
One minute withstand power frequency voltage for primary & secondary winding	4 KV
ISF	Less than 5
Rated short time current	40X <sub>1p</sub>
Insulation class	E

### Material

Core	High-grade non-ageing electrical low loss core
Conductor	Super enameled copper wire of requisite diameter
Insulation	Engineering plastic casing (non- flammable)
Mounting arrangement	Metallic clamps (replaceable type)

### Primary & secondary terminals

Primary	Primary will be ring type, proper marking will be provided for current direction identification
Secondary	Secondary terminals S1 & S2 will be clearly marked Secondary terminals will have sealing arrangement

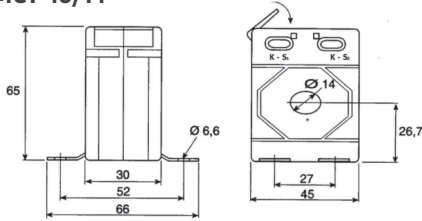
Class	Current error limit + - %				Phase angle error limit + - %			
	5	20	100	120	05	20	100	120
	% of nominal primary current				% of nominal prim. current			
0.5	1	0.75	0.75	0.75	90	45	30	30
1.0	3	1.5	1	1	180	90	60	60

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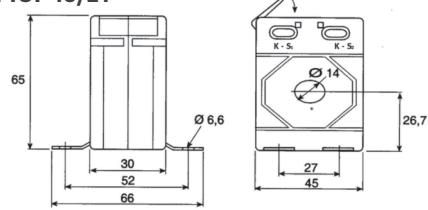


## Dimension drawings

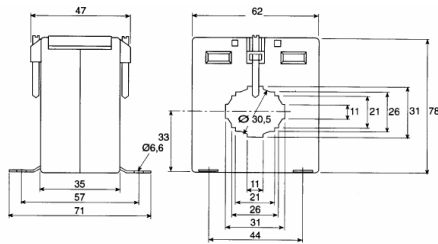
**MCT 45/14**



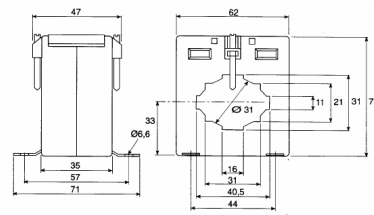
**MCT 45/21**



**MCT 62/30**



**MCT 62/40**



## Moulded case ring type LT CT (IEC60044-1)

Sr. no	CT ratio	VA	Class	Type	ID/slot (mm) ± 1 mm	Model
1	40/5 A	1.0	3	Ring	14	MCT 45/14
2	40/5 A	1.0	3	Ring	21	MCT 45/21
3	50/5 A	1.0	1	Ring	14	MCT 45/14
4	50/5 A	1.0	1	Ring	21	MCT 45/21
5	60/5 A	1.5	1	Ring	14	MCT 45/14
6	60/5 A	1.5	1	Ring	21	MCT 45/21
7	75/5 A	1.5	1	Ring	14	MCT 45/14
8	75/5 A	1.5	1	Ring	21	MCT 45/21
9	100/5 A	2.5	1	Ring	14	MCT 45/14
10	100/5 A	2.5	1	Ring	21	MCT 45/21
11	100/5 A	2.5	1	Ring	30	MCT 62/30
12	150/5 A	2.5	0.5	Ring	21	MCT 45/21
13	150/5 A	2.5	0.5	Ring	30	MCT 62/30
14	150/5 A	5.0	1	Ring	21	MCT 45/21
15	150/5 A	5.0	1	Ring	30	MCT 62/30
16	200/5 A	5.0	0.5	Ring	21	MCT 45/21
17	200/5 A	5.0	0.5	Ring	30	MCT 62/30
18	200/5 A	5.0	1	Ring	21	MCT45/21
19	200/5 A	5.0	1	Ring	30	MCT 62/30
20	250/5 A	5.0	0.5	Ring	21	MCT 45/21
21	250/5 A	5.0	0.5	Ring	30	MCT 62/30
22	250/5 A	5.0	1	Ring	21	MCT 45/21
23	250/5 A	5.0	1	Ring	30	MCT 62/30
24	300/5 A	5.0	0.5	Ring	30	MCT 62/30
25	300/5 A	10.0	1	Ring	30	MCT 62/30
26	300/5 A	5.0	0.5	Ring	30	MCT 62/30
27	300/5 A	10.0	1	Ring	30	MCT 62/30
28	400/5 A	5.0	0.5	Ring	40	MCT62/40
29	400/5 A	10.0	1	Ring	40	MCT62/40

**Australia**

sales\_australia@securemeters.com  
www.securemeters.com/au

**Dubai**

sales\_middleeast@securemeters.com  
www.securemeters.com/me

**Europe**

sales\_europe@securemeters.com  
www.securemeters.com/eu

**India, SE Asia, Africa**

sales\_india@securemeters.com  
www.securemeters.com/in

**UK**

sales\_uk@securemeters.com  
www.securemeters.com/uk