

Current transformers

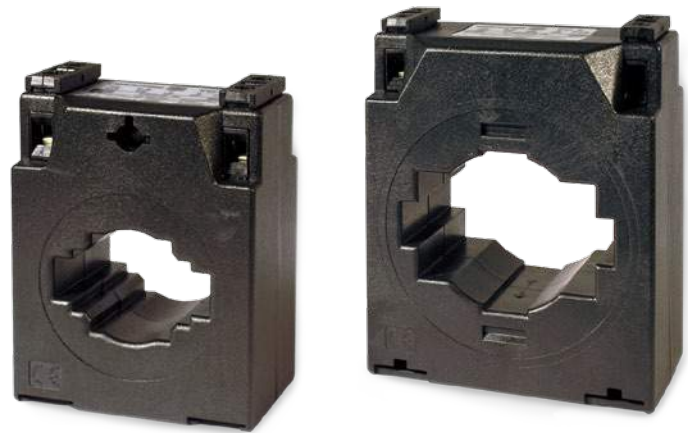
TC series

Narrow-profile current transformer

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Description

- Type: bar entrance
- Types: from 40 to 4000 A
- Internal diameter: from 20.3 to 63 mm, depending on the type
- Busbar dimensions: from 25 x 5 mm to 30 x 100 mm
- Transformer certificate sheet is attached
- DIN rail fixing accessory (Types **TC5** and **TC6**)
- Secondary coding types .../5 A (on demand .../1 A. TC12 not available)

Application

Converting a high nominal current to a lower current so that it can be measured by the unit.

In installations where the electrical supply can be interrupted to install transformers.

Features

Frequency	50 / 60 Hz
Isolation voltage	3 kV ac
Thermal short-circuit current, I_{th}	$60 I_n$
Dynamic current, I_{dyn}	$2.5 I_{th}$
Highest current in the material	0.72 kV ac
Thermal class	B (130 °C)
Type of encapsulation	VO self-extinguishing plastic
Safety factor	F_s 5
Secondary sealable terminals	Yes
Secondary terminals	IP 20
Fixing on DIN rail	TC5 and TC6
Standards	
IEC 44-1, BS2627	



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References

Type	TC 4				TC 5				TC 5,2				TC 6,2				TC 6							
Busbar (mm)	30 x 10 20 x 10 25 x 5				25 x 5				20 x 12 25 x 10 30 x 10				30 x 10				40 x 10							
A	V-A	Class			Code	Class			Code	Class			Code	Class			Code	Class			Code			
		0,5	1	3		0,5	1	3		0,5	1	3		0,5	1	3		0,5	1	3				
40/5						-	-	1,5	M70311															
50/5		-	-	1	M703D5	-	-	3	M70312															
60/5		-	-	1,25	M703D6	-	1,25	3,5	M70313															
75/5		-	-	1,25	M703D7	-	2	3,5	M70314															
100/5		-	2	3	M703D8	1,5	2,5	3,75	M70315	-	1	1,5	M70321	1,75	3,75	7,5	M70341							
125/5		-	2,5	2,75	M703D9	1,75	3,5	5	M70316	-	1,5	2	M70322	3,75	7,5	10	M70342							
150/5		1,5	2,5	4	M703DA	2,5	3,5	5	M70317	1	2	2,5	M70323	5	7,5	10	M70343	1	3,5	5	M70331			
200/5		2,5	5	6	M703DB	3,75	5	5	M70318	2,5	3	3,5	M70324	7,5	10	10	M70344	3,5	5	7,5	M70332			
250/5						5	7,5	7,5	M70319	3,5	3,75	5	M70325	7,5	10	15	M70345	5	7,5	10	M70333			
300/5										3,5	3,75	5	M70326	10	10	15	M70346	5	7,5	10	M70334			
400/5										3,5	5	7,5	M70327	10	10	15	M70347	5	7,5	10	M70335			
500/5										5	7,5	10	M70328	15	15	20	M70348	7,5	10	15	M70336			
600/5										5	7,5	10	M70329	15	20	25	M70349	7,5	10	15	M70337			
750/5																					10	15	20	M70338
800/5																					10	15	20	M70339

Type	TC 8				TC 8.3				TC 10				TC 12												
Busbar (mm)	60 x 12				40 x 10				50 x 50 60 x 30 80 x 30				3 x 100 x 10												
A	V-A	Class			Code	Class			Code	Class			Code	Class			Code								
		0,5	1	3		0,5	1	3		0,5	1	3		0,5	1	3									
100/5						5	5	5	M703BA																
150/5						5	7,5	10	M703BC																
200/5		1	2,5	5	M7036C	15	20	25	M703B2	1	2,5	5	M7037F												
250/5						10	15	20	M703B1																
300/5		2,5	5	7,5	M7036B	15	20	25	M703B3	2,5	5	7,5	M7037D												
400/5		5	7,5	10	M70361	15	20	25	M703B4																
500/5		7,5	10	15	M70362	15	20	25	M703B5	5	7,5	10	M7037B												
600/5		10	15	20	M70363	15	20	25	M703B6	7,5	10	15	M7037C												
750/5		15	20	25	M70364	20	25	30	M703B7																
800/5		15	20	30	M70365	25	30	35	M703B8	7,5	10	15	M70372	10	15	20	M7038B								
1 000/5		15	20	30	M70366	25	30	35	M703B9	10	15	20	M70373	10	15	20	M70381								
1 200/5		15	20	30	M70367					10	15	20	M70374	10	15	20	M70382								
1 250/5					M7036A					10	15	20	M7037E	10	15	20	M7038D								
1 500/5		15	20	30	M70368					15	20	25	M70375	15	20	30	M70383								
1 600/5		15	20	30	M70369					15	20	25	M70376	15	20	30	M70384								
2 000/5										15	20	25	M70377	15	20	30	M70385								
2 500/5										15	20	30	M70378	20	30	40	M70386								
3 000/5										15	20	30	M70379	30	40	60	M70387								
3 200/5																					30	40	60	M7038C	
4 000/5																					35	40	60	M70388	

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Dimensions

dimensions (mm)	TC 4	TC 5 TCH 5	TC 5.2 TCH 5.2	TC 6.2 TCH 6.2	TC 6 TCH 6	TC 8 TCH 8	TC 10 TCH 10
a	50	58	58	64	64	84,5	108
b	70	70	70	80,5	80,5	102	130
c	29	29	29	34	34	46	61
d	21	20,3	22	26	28,5	44	63
e	43,5	45	45	60,5	66,5	69	---
f	30	32	32	44	44	50	50
g	56	59	59	71	71,2	78	78
h	5,5	5,6	5,6	5,6	5,6	6,6	6,6
i	45,5	48	48	60	60	64	64
j	31,6	39	39	46	46	62	86
k	30,5	25,6	30,6	20,6	40,6	60,6	80,6
l	30,5	15,6	15,6	30,6	25,2	30,6	50,8

TC 12 series

Technical drawings of the TC 12 series current transformer. The front view shows a width of 129 mm and a height of 150 mm. The side view shows a width of 78 mm and a height of 50 mm. The terminal view shows a width of 106 mm and a height of 64 mm. Other dimensions include 4,5 mm, 70 mm, 54 mm, 101 mm, 50 mm, 6,6 mm, and an M5 screw.