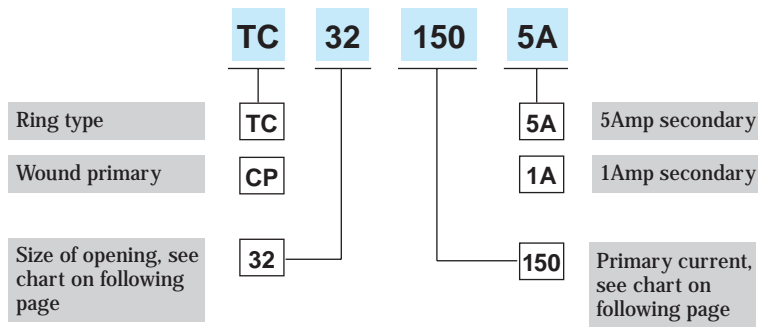


Moulded case current transformers conforming to IEC 185, BS3938 and VDE414

- DIN rail, base or bus bar mounting
- Supplied with push-on tags for shorting links
- Moulded in self extinguishing thermoplastic class VO



Options and ordering codes



Specifications

Operating frequency	40 – 60Hz
Insulation reference voltage	660V
Test voltage	3KV for 1 min @ 50Hz
Insulation class	Class E
Continuous overcurrent	1.2IN
Case protection	IP30
Operating temperature	-25 – +50°C
Storage temperature	-40 – +80°C
Secondary terminals (not TC21)	M4 screw clamps and 6.3 x 0.8mm push-on tags for shorting links
Burden and class	See chart on following page

Consumption in VA of cables between C.T. and meter

<i>2 cables</i>	<i>resistance</i>	<i>CT with sec. 1A</i>	<i>CT with sec. 5A</i>
mm ²	Ω/m	VA/m	VA/m
2 x 0.5	0.0735	0.0735	1.837
2 x 0.75	0.0490	0.0490	1.225
2 x 1	0.0367	0.0367	0.918
2 x 1.13	0.0325	0.0325	0.813
2 x 1.5	0.0245	0.0245	0.613
2 x 2	0.0184	0.0184	0.460
2 x 2.5	0.0147	0.0147	0.368
2 x 3	0.0122	0.0122	0.305
2 x 3.5	0.0106	0.0106	0.265
2 x 4	0.0093	0.0093	0.233
2 x 4.5	0.0082	0.0082	0.205
2 x 5	0.0074	0.0074	0.185

Terminal Covers

Sealable terminal cover for all models except TC21 – - - - -

TC22 VAC-COP

(For dimensions see dotted detail on front elevation drawings on following page) All models supplied with fixing feet and bus bar clamps as applicable

Current Transformers TC

Model	CP5	CP10	TC21	TC22	TC32	TC40	TC53	TC81												
Aperture	Wound primary type		21mm Ø	22mm Ø	33 x 24mm max	40.5 x 40.5mm max	51 x 41mm max	81 x 31mm max												
Fixing*	A & B		C	A, B & D	A, B & D	A, C & D	A, C & D	C & D												
Class	0.5	1	0.5	1	3	0.5	1	3	0.5	1	3	0.5	1	3	0.5	1				
10 AMP	5	7																		
15	5	7																		
25	5	7																		
40	5	7																		
50					1															
60					1.5			2												
100			10	20	2	2.5		2	2.5											
150			10	20		2	2.5	3	5	8										
200					3	5	6	5	10	12	2.5	5	8							
250			10	20	4	6	8	8	10	15	4	7	10							
400														8	12	15	6	12	20	
600														12	15	18	15	25	30	
1000																	30	40	50	
1500																			20	40

*FIXING A = DIN RAIL FIXING B = BASE MOUNTING C = FIXING FEET D = BUS BAR MOUNTING = BURDEN PER ACCURACY CLASS IN VA

Accuracy vs. VA burden

A CT can be considered to have different accuracies depending on the load it drives, e.g. for TC22 250A, from the values above: 3% for $\leq 15VA$, 1% for $\leq 10VA$, 0.5% for $\leq 8VA$. For a required accuracy, when using long cables between CT and meter, e.g. TC22 250A, 1% required, 5A meter, 40 metre cables, from above, 1% means $\leq 10VA$ load, therefore: $\frac{10VA}{40 \text{ metres}} = 0.25VA/\text{metre}$. From the table on the previous page, in the column 'CT with sec. 5A'; the next smallest value is 0.233, which means that 4mm² cables will be required. The total accuracy of the system is the CT accuracy (1% above) + the meter accuracy (1.5%) = 2.5%.