

ACCURACY CLASS

Class	Current deviation (± %) at % I _N						Phase angle deviation (± crad) at % I _N				
	1	5	20	50	100	120	1	5	20	100	120
0,2S	0,75	0,35	0,2	—	0,2	0,2	0,9	0,45	0,3	0,3	0,3
0,2	—	0,75	0,35	—	0,2	0,2	—	0,9	0,45	0,3	0,3
0,5S	1,5	0,75	0,5	—	0,5	0,5	2,7	1,35	0,9	0,9	0,9
0,5	—	1,5	0,75	—	0,5	0,5	—	2,7	1,35	0,9	0,9
1	—	3	1,5	—	1	1	—	5,4	2,7	1,8	1,8
3	—	—	—	3	—	3	—	—	—	—	—

CONNECTION WIRE CONSUMPTION IN [VA]

q = wire cross- section (mm ²)	Connection-wire consumption in [VA] (P _{wire})																			
	for secondary current I _{sec} =5A								for secondary current I _{sec} =1A											
	L = distance from CT. to measuring point								L = distance from CT. to measuring point											
	1m	2m	4m	6m	8m	10m	15m	20m	1m	2m	4m	6m	8m	10m	15m	20m	30m	40m	50m	
2 × 0.5	1.837	3.67	7.35	11.02	---	---	---	---	0.074	0.15	0.30	0.44	0.59	0.74	1.11	1.48	2.22	2.96	3.70	
2 × 0.75	1.235	2.47	4.94	7.41	9.88	---	---	---	0.049	0.10	0.20	0.29	0.39	0.49	0.74	0.98	1.47	1.96	2.45	
2 × 1	0.918	1.84	3.67	5.51	7.34	9.18	---	---	0.037	0.07	0.15	0.22	0.30	0.37	0.56	0.74	1.11	1.48	1.85	
2 × 1.5	0.613	1.23	2.45	3.68	4.90	6.13	9.20	---	0.025	0.05	0.10	0.15	0.20	0.25	0.38	0.50	0.75	1.00	1.25	
2 × 2.5	0.368	0.74	1.47	2.21	2.94	3.68	5.52	7.36	0.015	0.03	0.06	0.09	0.12	0.15	0.23	0.30	0.45	0.60	0.75	
2 × 4	0.233	0.47	0.93	1.40	1.86	2.33	3.50	4.66	0.009	0.02	0.04	0.05	0.07	0.09	0.14	0.18	0.27	0.36	0.45	
2 × 6	0.149	0.30	0.60	0.89	1.19	1.49	2.23	2.98	0.003	0.006	0.012	0.018	0.024	0.03	0.045	0.06	0.09	0.12	0.15	

$$P_{\text{curr. transf}} > P_{\text{total}} = P_{\text{wire}} + P_{\text{consumer}}$$

$$P_{\text{wire}} = \frac{I^2 \cdot 2L}{q_{\text{wire}} \cdot 56} \quad (\text{or see table}).$$

REQUESTED BURDEN FOR DIFFERENT MEASURING INSTRUMENTS

For defining the rated burden of current transformers herebelow one rated burden values of instruments produced by GANZ INSTRUMENTS Ltd.

- Moving-iron ammeter (frame dimensions of 48, 72, 96 mm) 0.5 VA
- Bimetal instruments (... /5 A) 3 VA
- Bimetal and moving-iron instruments (... /5 A) 3.5 VA
- Wattmeter's 3,5..5,5 VA
- Power factor meters 12 VA
- Current transducer 0.5 VA
- Power transducer 0.5 VA
- kWh-meter 0.5 VA