

LOW VOLTAGE CURRENT TRANSFORMER

General specification

Applicable standard: - IEC/EN 60044 -1, BS 3938, IS 2705 -1

Case: - 10% glass filled polycarbonate, flame retardant grades classified UL 94V-0.

Connection: - Two connection on each side. M4 screws with self lifting clamp strap assembly for RishXmer series and 1 connection on each side M4 screws with self lifting clamp strap for Rish CT series.

Insulation class: - E (120°C max)

System voltage: - 720V maximum

Test voltage: - For Ring (Window) type CT : 4KV 50 Hz for 1 min (except for 50/30 CT type and 50/50 CT type where test voltage is 3KV 50 Hz for 1 min)
For Wound type CT : 3KV 50 Hz for 1 min

Operating frequency: - 50Hz

Rated primary rating: - 1A to 7500A

Rated secondary output: - 5A standard (1A on request)

Rated burden: - 1, 1.25, 1.5, 2.5, 3.75, 5, 7.5, 10, 12.5, 15, 20, 30, 45, 60, 100 VA

Class of accuracy: - 0.2, 0.2S for laboratory and power measurement
0.5, 0.5S for accurate measuring, kWh
1 for general measurement
3 for indicating instruments

Ambient temperature: - -20°C...+45°C

Storage temperature: - -50°C...+80°C

Thermal short circuit current (Ith): - 40xIn for Wound type CT and 60xIn for Bus Bar type CT.

Dynamic short circuit current (Idyn): - 2.5xIth

Instrument security factor (FS): - 2.5, 5, 10

Limits of current error and phase displacements for measuring current transformers (Classes from 0.1 to 1)

Accuracy class	+/- percentage current (ratio) error at percentage of rated current shown below				+/- phase displacements at percentage of rated current shown below							
					Minutes				Centiradians			
	5	20	100	120	5	20	100	120	5	20	100	120
0.1	0.4	0.2	0.1	0.1	15	8	5	5	0.45	0.24	0.15	0.15
0.2	0.75	0.35	0.2	0.2	30	15	10	10	0.90	0.45	0.3	0.3
0.5	1.5	0.75	0.5	0.5	90	45	30	30	2.7	1.35	0.9	0.9
1.0	3.0	1.5	1.0	1.0	180	90	60	60	5.4	2.7	1.8	1.8

