

CURRENT TRANSFORMERS FOR TRANSMISSION LINES

Characteristics		CT 115 kV	CT 138 kV	CT 161 kV	CT 230 kV	CT 400 kV
Rated voltage (kV)		115	138	161	230	400
Max. Design voltage (kV)		123	145	170	245	420
Power frequency Withstand voltage (kV effective)	Internal	230	275	325	460	630
	External	230	275	325	460	630
Lightning impulse withstand voltage (kV cresta)	Internal	550	650	750	1050	1425
	External	550	650	750	1050	1425
Frequency (Hz)		60	60	60	60	60
Winding 1: measurement class / burden measurement (VA)		0.2S / 30	0.2S / 30	0.2S / 30	0.2S / 30	0.2S / 30
Winding 2-3-4: protection class / burden protection (VA)		10P20 / 100	10P20 / 100	10P20 / 100	10P20 / 100	10P20 / 100
FA (A)		≤20	≤20	≤20	≤20	≤20
Thermal short-circuit current		40	40	40 ó 50	40 ó 63	40, 50 ó 63
Voltage ratio (A) Type 1		300/400/500X600/800/1000X1200/1600/2000:5	300/400/500X600/800/1000X1200/1600/2000:5	600/800/1000X1200/1600/2000:5	600/800/1000X1200/1600/2000:5	800/1000X1600/2000:5
Voltage ratio (A) Type 2		'-----	'-----	1500/1600X3000/2300:5	1500/1600X3000/3200	1500/1600X3000/3200
Creepage distance (mm)		31	25	31	31	31
Insulation		Corrosive sulfur and PCB-free oil	Corrosive sulfur and PCB-free oil	Corrosive sulfur and PCB-free oil	Corrosive sulfur and PCB-free oil	Corrosive sulfur and PCB-free oil

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