

TECHNICAL DATA SHEET

CVS-24-0

Combined Electronic Current and Voltage Transformer for outdoor

The CVS-24-0 is a 24kV combined electronic current and voltage transformer for outdoor use. It utilizes capacitive voltage sensing and Rogowski current sensing technologies designed to cover a wide range of applications from metering-class measurements & analytics to protection.

CVS-24-0 Current Transformer features

Rated primary current, I_{pr}^*	300 A	
Rated extended primary current factor, K_{pcr}	30	
Rated primary time constant for transient performance, t_{pr}	25 ms	
Rated short time withstand thermal current, I_{th}	16kA / 1s	
Dynamic nominal current, I_{dyn}	31.5kA	
Rated continuous thermal current, I_{cth}	1.8 I_{pr}	
Nominal transformation ratio, K_{ra}^*	300A / 0.2V	
Accuracy class	For protection *	5P30
	For measurement*	0.5

CVS-24-0 Voltage Transformer features

Rated insulation level	24kV	
Power frequency withstand level	50kV	
Basic impulse level	125kV	
Rated primary voltage, U_{pn}^*	20/ $\sqrt{3}$ kV	
Maximum voltage, U_m	24kV	
Rated secondary voltage, U_{sn}^*	1.1547V	
Rated voltage factor, K_u	1.9 for 8h	
Nominal transformation ratio, K_n^*	10000 / 1	
Accuracy class	For protection *	3P
	For measurement *	0.5

*Customizable parameters, available with different values upon request

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CVS-24-0 General Features

Nominal frequency	50 / 60 Hz
Weight	3.5 kg (7.7 lbs)
Creepage	720 mm
Applicable Standards	IEC 60044-7; 60044-8
Bandwidth (-3 dB)	30 Hz – 20 kHz for VS
	30 Hz – 5 kHz for CS
Accuracy on harmonics	IEC 60044-8

