

CVS-24-I

Current and Voltage Sensor

The CVS-24-I is a 24 kV combined current and voltage sensor for indoor 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-I voltage 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 V	
Rated voltage factor, K_u	1.9 for 8h	
Nominal transformation ratio *, K_n	20/ $\sqrt{3}$ kV / 1V	
Accuracy class	For protection	3P
	For measurement *	0.5

CVS-24-I current features

Rated primary current *, I_{pr}	630 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 / 3s	
Dynamic nominal current, I_{dyn}	31.5kA	
Rated Continuous thermal Current, I_{cth}	1.2 Ipr	
Nominal transformation ratio *, K_{ra}	630A / 0.2V	
Accuracy class	For protection	5P30
	For measurement *	0.5

* Customizable parameters, available with different values, upon request.

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CVS-24-I General Features

Auxiliary supply voltage	$\pm 12V_{dc}$
Max. supply current	15 mA
Creepage	408 mm
Nominal frequency	50 / 60 Hz
Primary terminal capacity	1 pF
Weight	3.5 kg (7.7 lbs.)
Bending strength P0	2200 N
Applicable Standards	IEC 60044-7; 60044-8

