

CVS-24-I Indoor Current and Voltage Sensor

CVS-24-I is an active 24kV combined current and voltage sensor for indoor use suitable for installation in air insulated switchgears or similar applications. It can be applied for both measurement and protection applications and there are options available for high accuracy voltage and high frequency measurement. CVS-24-I sensors can be also installed as standalone units. Post insulator design allows installation as a busbar support for conventional instrument transformers retrofitting.

GENERAL TECHNICAL PARAMETERS

Rated insulation level	24/50/125 kV
Supply voltage	±12 Vdc
Creepage distance	350 mm
Nominal frequency	50 Hz
Primary terminal capacity	1 pF
Weight	3,5 kg
Bending strength Po	2200 N
Applicable Standards	IEC 60044-7; 60044-8
Bandwidth (-3 dB)	30 Hz – 100 kHz for VS 30 Hz – 10 kHz for CS
Accuracy on harmonics	According to IEC 60044-8



CURRENT SENSOR PARAMETERS

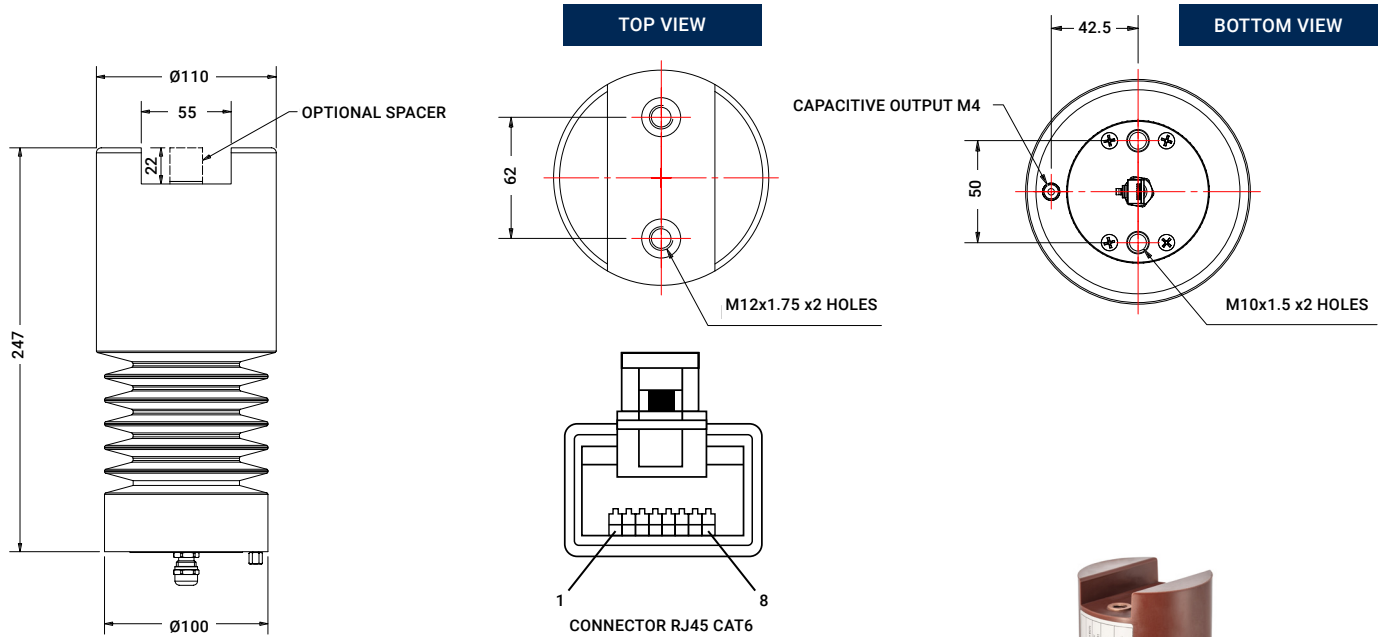
Rated primary current, Ipr	630 A
Rated extended primary current factor, Kpcr	30
Rated primary time constant for transient performance, tpr	40 ms
Rated short time withstand thermal current, Ith	16 kA / 3s
Dynamic nominal current, Idyn	40 kA
Rated Continuous thermal Current, Icth	1,2 Ipr
Nominal transformation ratio, Kra	630 A / 0.2 V
Accuracy class *	Protection 5P30 Measurement 0.5

VOLTAGE SENSOR PARAMETERS

Rated primary voltage, Upn *	20/√3 kV
Maximum voltage, Um	24 kV
Rated secondary voltage, Usn *	1 V
Rated voltage factor, Ku	1.9 for 8h
Nominal transformation ratio, Kn *	20/√3 kV / 1 V
Accuracy class *	Protection 3P Measurement 0.5

* marks parameters customized upon request

CVS-24-I Drawing



RJ45 PINOUT							
1	2	3	4	5	6	7	8
GND	GND	LPCT S2	LPCT S1	LPVT n	LPVT a	+VDC	-VDC

All linear dimensions are in millimeters.



For more information

please, visit our website: www.gwelectric.com/products/high-accuracy-sensors/



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