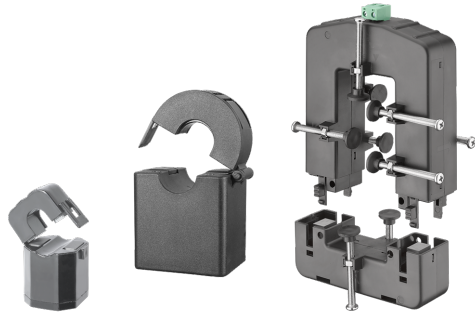


CTV

Split core current sensor



Benefits

- **Adaptability and flexibility.** Effective for a wide range of currents, it can be installed in existent applications.
- **Fast installation.** The opening/closing mechanism makes installation fast even in existent applications.

Description

Split core current sensor (333 mV output) with compact dimensions, suitable for retrofit applications when used in combination with EM530 MV and EM210 72 D MV energy analyzers or EM271 multi-channel power analyzer by TCDMM adapter. It manages primary current from 60 A to 800 A (it depends on the model).

Applications

CTV is the ideal solution for quick and easy installation without disconnecting cables during installation. It is indicated for any application (residential, commercial and industrial), especially for retrofitting where installing a solid core current transformer is not possible.

Main features

- Suitable for retrofit applications,
- 10 to 36 mm hole diameter,
- 50 x 90 mm hole diameter (CTV-8X model only),
- Detachable screw terminals (CTV-8X model only),
- 333mV secondary output voltage.

Features

General

Material	PA66
Protection degree	IP20
Secondary output	CTV1X and CTV2X: Cable, 1.8 m, 22 AWG (0.33 mm ²) CTV3X: Cable, 1.5 m, 24 AWG (0.2 mm ²) CTV4X and CTV6X: Cable, 2 m, 24 AWG (0.2 mm ²) CTV8X: detachable screw terminals
Mounting	Cable Busbar (CTV-8X)
Weight (g)	CTV1X: 60 CTV2X: 66 CTV3X: 118 CTV4X: 200 CTV6X: 300 CTV8X: 725

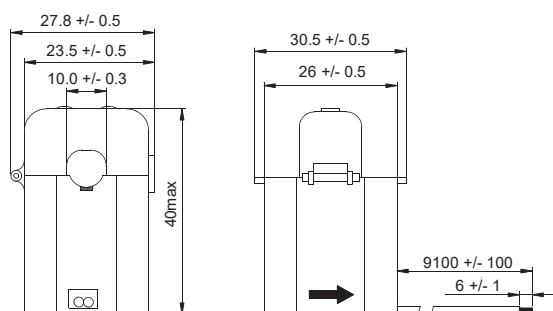


Fig. 1 CTV-1X

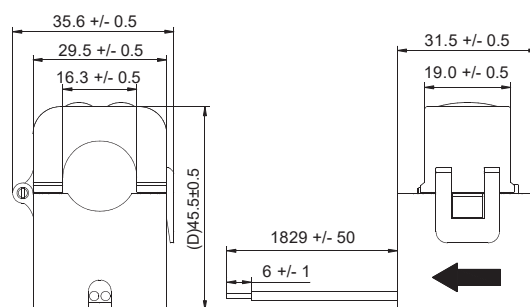


Fig. 2 CTV-2X

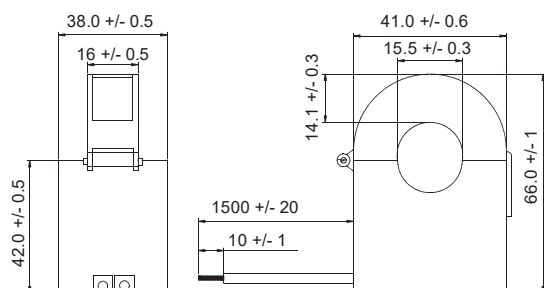


Fig. 3 CTV-3X

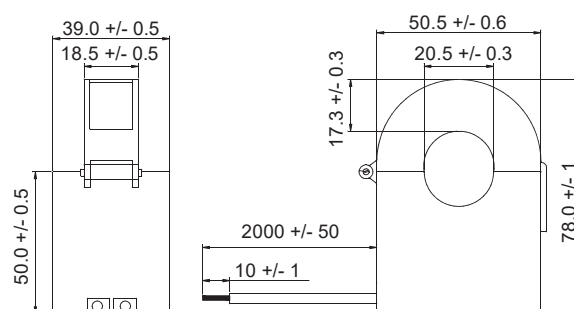


Fig. 4 CTV-4X

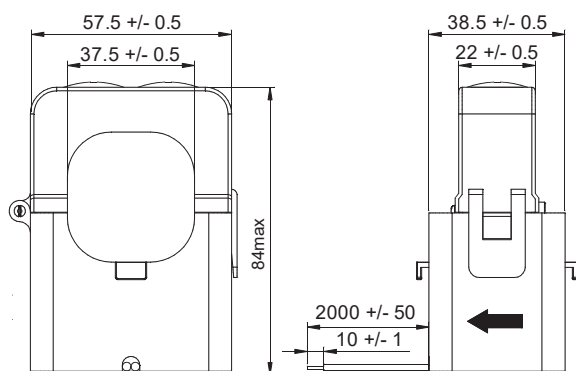


Fig. 5 CTV-6X

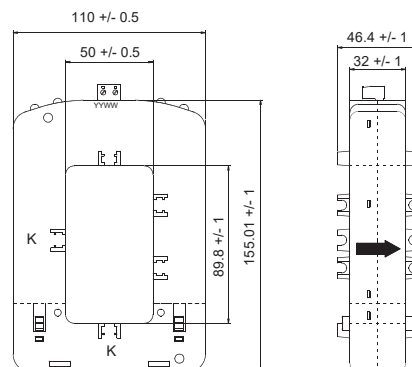


Fig. 6 CTV-8X

Environmental specifications

Operating temperature	-40° to +65°C (-40 to 149 F°)
Storage temperature	-45° to +80°C (-49 to 176 F°)

UL note: insulation class: A (105), 55 °C rise type at 30°C ambient

Conformity

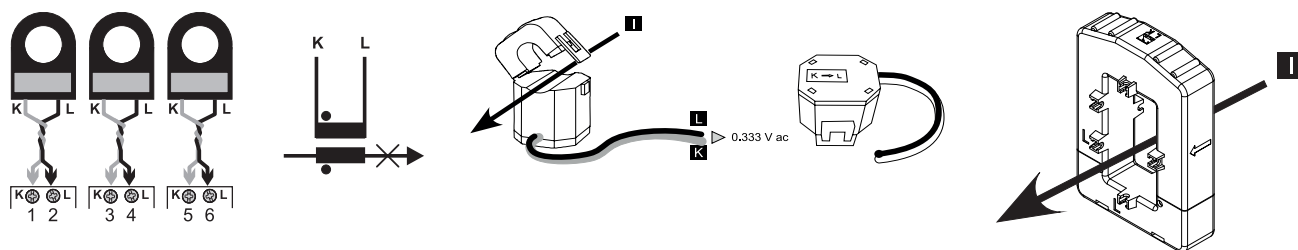
Approvals	 
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Electrical specifications

Current	
Maximum current (continuous)	1.2 x I _n
Secondary output	333 mV
Rated system voltage	600 V ac
Accuracy	Equivalent to Class 1 according to EN IEC 61869-2
Dielectric withstand voltage (Hi-pot)	CTV1X, CTV2X: 2.5k V ac/1min Other models: 3k V ac/1min

Model	Model Primary current (A)	Max cable diameter (mm)	Max busbar size (mm)
CTV-1X	60	10	-
CTV-2X	100	16	-
CTV-3X	200	16	-
CTV-4X	200 400	21	-
CTV-6X	400	36	-
CTV-8X	800	-	50 X 90

Connection Diagrams



References

 **CTV** ☐ **X** ☐ **333MV**

Enter the code, replacing the symbol ☐ with the selected option (e.g.: CTV 1X 60A 333MV).

Code	Option	Description
C	-	-
T	-	-
V	-	-
☐	1X 60 A	Model and primary current
	2X 100 A	
	3X 200 A	
	4X 200 A	
	4X 400 A	
	6X 400 A	
	8X 800 A	
333 mV	-	Secondary output

Further reading

Information	Document	Where to find it
Instruction manual	Instruction manual: CTV_X	www.gavazziautomation.com

CARLO GAVAZZI compatible components

Purpose	Component name/code key
Measure and display consumption of connected circuits	EM210 MV, EM271, ET272, EM530 MV
Connect CTV to EM271, ET272 or EM530 MV	TCDMM



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