CTG









- High sensisitivity.
- Wide range.
- Easy installation.

Description

CTG is a family of "core balance transformers". These devices detect the difference in the current flow on the lines running through the coil.

They work on either single phase or three-phase mains.

When the vectorial sum of the current flowing to the load and the one flowing on the NEUTRAL cable (if present) is different from "0" (zero), a current on the CT secondary circuit is generated.

The current difference is usually caused by a leak which may cause an hazard.

The output signal can be used by a residual current monitoring device which will disconnect the monitored load or send an alarm signal.

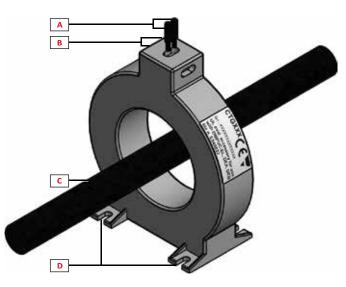


Applications

CTGs are used for detecting current leaks, potentially hazardous, on electric loads. Typically on electric motors, pumps or devices installed in metallic structures. They are approved to be used in conjunction with Carlo Gavazzi DEA71 and DEB71 earth leakage monitoring relays.



Structure



Element	Component Function	
A	Terminals CT secondary, connection cables	
В	Terminals screws CT secondary, tightening screws	
с	Monitored line	Monitored mains line Multi wire cable: - Single phase: Line + Neutral - Three Phase: L1, L2, L3 or L1, L2, L3 +N Important Note: Do not route earth wire through the CTG
D	Fixing flange	Panel mount fixing flange (CTG035 also with DIN rail adapter)

CTG CARLO GAVAZZI

Features



General

Protection degree	IP20
	CTG035: Approx. 80 g
	CTG050: Approx. 100 g
Weight (packaging	CTG070: Approx. 125 g
included)	CTG120: Approx. 235 g
	CTG160: Approx. 1220 g
	CTG210: Approx. 1860 g
	CTG035: 64 x 74 x 20 mm
	CTG050: 87 x 98 x 20 mm
Dimensions (mm)	CTG070: 105 x 117 x 20 mm
(WxHxD)	CTG120: 155 x 170 x 20 mm
	CTG160: 241 x 254 x 33 mm
	CTG210: 290 x 304 x 33 mm
	CTG035: 35mm
	CTG050: 50mm
Internal diameter	CTG070: 70mm
internal diameter	CTG120: 120mm
	CTG160: 161mm
	CTG210: 210mm

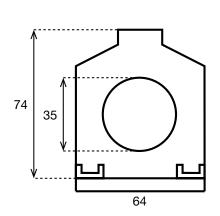
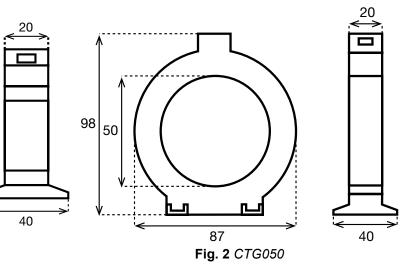
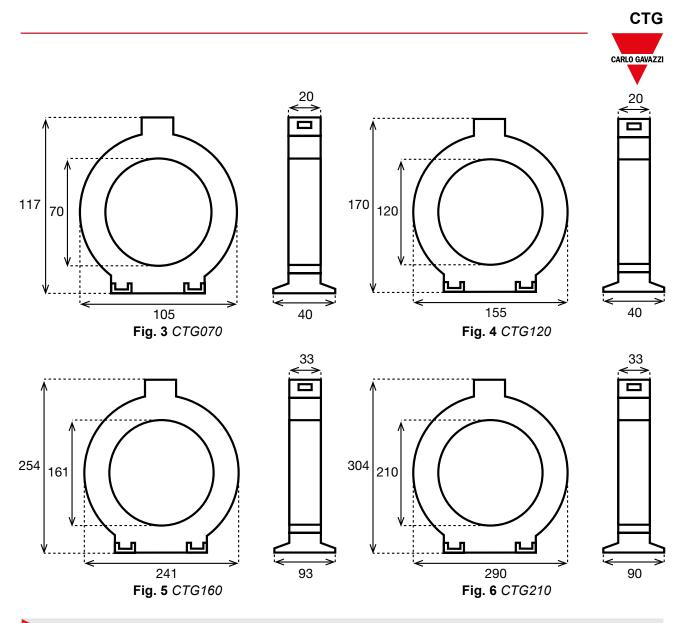


Fig. 1 CTG035





Environmental

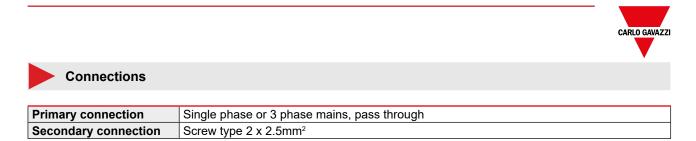
Operating temperature	-5°C to +50°C (+23°F to 122°F)
Storage temperature	-5°C to +50°C (+23°F to 122°F)

Compatibility and conformity

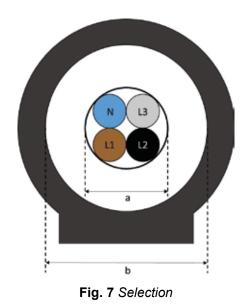
Standard compliance	According to IEC44-1, IEC185
Approvals	cUL (when used in conjuction with Carlo Gavazzi devices: DEA71, DEB71 or DMPUC-EL)
CE-marking	L.V. Directive EN60947-5-1, EMC Directive EN 60947-2 Annex M, EN60947-8

Input/Output

Current transfomer ratio	1000/1
Operating frequency	50-60 Hz
Max. system voltage	720 VAC
Rated insulation level	3 kV AC



Type selection



Select the correct CTG size according to mains cable dimension: referring to fig. 7 the dimension of CTG shall be: $b \ge 1.5 * a$.

CTG

References



Further reading

Information	Document	Where to find it
DEA71 Datasheet	dea71_ds.pdf	http://www.productselection.net/PDF/ UK/dea71_ds.pdf
DEB71 Datasheet	deb71_ds.pdf	http://www.productselection.net/PDF/ UK/deb71_ds.pdf
DEA/DEB/CTG Instruction manual	dea_deb_im.pdf	http://www.productselection.net/manu- als/UK/dea_deb_im.pdf
2D drawings	2D_CTG.zip	http://www.productselection.net/ dxf/2D_ctg.zip
3D drawings	3D_CTG.zip	http://www.productselection.net/ dxf/3D_ctg.zip

Order code

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Complete the code entering the corresponding option in	stead of	Ш

Code	Option	Description
CTG		Core balance transformer
	035	35 mm Internal diameter
	050	50 mm Internal diameter
	070	70 mm Internal diameter
	120	120 mm Internal diameter
	160	160 mm Internal diameter
	210	210 mm Internal diameter



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Carlo Gavazzi: CTG160 CTG035 CTG050 CTG070 CTG120 CTG210