

RI-CT060 Series



Single Phase Moulded Case Current Transformers

- From 100A to 500A Primary currents
- 5A or 1A Secondary output
- 49mm width
- 20 x 20mm, 30 x 10mm or Ø24mm cable aperture
- Sealable terminal cover
- Supplied with DIN Rail mounting clip, Busbar fixing and mounting feet
- Compact design
- Indication of primary current flow (arrows on case body)

Ø 24mm

20x20mm

30 x 10mm

30 x 10mm

Product Description

The RI-CT060 Series forms part of a large family of solid core single phase moulded case current transformers from Rayleigh Instruments.

These transformers are suitable for monitoring current flow in commercial, industrial or utility applications. They are designed to connect any standard metering or relay product requiring a 5A or 1A output and are available with Primary current input ranges from 100A to 500A

The RI-CT060 Series have been designed for ease of installation and are supplied with DIN rail clip, Busbar fixings and fixing feet. They also have clear markings moulded into the case to indicate the correct direction of primary current flow to minimise installation errors.

Parameters

Primary Current	Burden			Order Code
	Class 0.5 VA	Class 1 VA	Class 3 VA	
100	-	1.25	1.5	0100
125	-	1.5	2	0125
150	1.25	1.5	2.5	0150
200	2.5	3.75	5	0200
250	2.5	5	6	0250
300	2.5	5	6	0300
400	3	5	6	0400
500	4	6	7	0500

Available with 5A or 1A Secondary

Rated Standard

Rated Primary Current (I_{pr})	100...500A
Frequency Range (f_R)	47...63Hz
Rated continuous over current	1.2 x rated current
Rated short time thermal current (I_{th})	$<60 I_n$
Rated dynamic current (I_{dyn})	2.5 I_{th}
Instrument security factor (FS)	≤ 5
Rated Secondary output (V_{st})	5A or 1A
Accuracy class	Class 0.5, 1 and 3 to IEC/EN61869-2

Insulation

Insulation type	Dry transformer, air insulation
Highest voltage U_m	0.72kV r.m.s.
Rated insulation level	3kV r.m.s. 50Hz/1 min

Environmental Conditions

Reference temperature	23°C $\pm 1^\circ\text{C}$
Nominal temperature range	-25°C...50°C
Daily mean temperature	$\leq 30^\circ\text{C}$
Limit temperature range for storage	-40°C...85°C
Relative humidity	$\leq 85\%$ non condensing

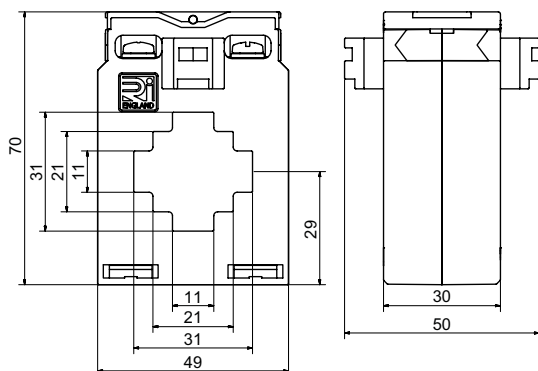
Housing

Housing material	Self extinguishing polycarbonate
Protection degree (IEC/EN60529)	IP40 housing, Terminals IP20
Mounting	Foot mounting, busbar mounting or snap on 35mm DIN rail mounting
Weight	$\leq 200\text{g}$

Connections

Primary winding	Passing cable
Secondary winding	Screw clamp connection - 6mm ² Max.

Dimensions (mm)



Accessories

The RI-CT060 series of current transformers come supplied with fixing feet, busbar clamping screws with insulator feet and a robust DIN rail mounting clip.



Information Required with Order

Build your order number - example

RI-CT060 5A 0125

Model

Secondary Current

Primary Current Range - See Parameters Table 'Order Code'