

## RI-CT160 Series

### Single Phase Moulded Case Current Transformers



- From 400A to 6000A Primary currents
- 5A or 1A Secondary output
- 125mm width
- 54 x 127mm aperture
- Sealable terminal cover
- Supplied with Busbar fixings
- Compact design
- Indication of primary current flow (arrows on case body)

127 x 54mm

#### Product Description

The RI-CT160 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 400A to 6000A

The RI-CT160 Series have been designed for ease of installation and are supplied with Busbar fixings. They also have clear markings moulded into the case to indicate the correct direction of primary current flow to minimise installation errors.

#### Options

A horizontal mounting version of this current transformer is also available.



#### Parameters

Primary Current	Burden			Order Code
	Class 0.5 VA	Class 1 VA	Class 3 VA	
400	-	7.5	10	0400
500	5	7.5	10	0500
600	8	12	15	0600
700	10	15	20	0700
750	10	15	20	0750
800	10	15	20	0800
1000	12	20	25	1000
1200	15	20	25	1200
1250	15	20	25	1250
1500	20	30	40	1500
1600	20	30	40	1600
2000	25	30	40	2000
2500	30	50	60	2500
3000	30	50	60	3000
3200	30	50	60	3200
4000	30	50	60	4000
5000	30	50	60	5000
6000	30	50	60	6000

Available with 5A or 1A Secondary

Class Accuracy 0.2S and 0.5S available on request

## Rated Standard

Rated Primary Current ( $I_{pr}$ )	400...6000A
Frequency Range ( $f_R$ )	47...63Hz
Rated continuous over current ( $I_{cth}$ )	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 ( $I_{sr}$ )	5A or 1A
Accuracy class	Class 0.5, 1 and 3 to IEC/EN61869-2 (Class 0.2S and 0.5S available on request)

## Insulation

Insulation type	Dry transformer, air insulation; Class B
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 ±1°C
Nominal temperature range	-25°C...50°C
Daily mean temperature	≤30°C
Limit temperature range for storage	-40°C...85°C
Relative humidity	≤85% non condensing

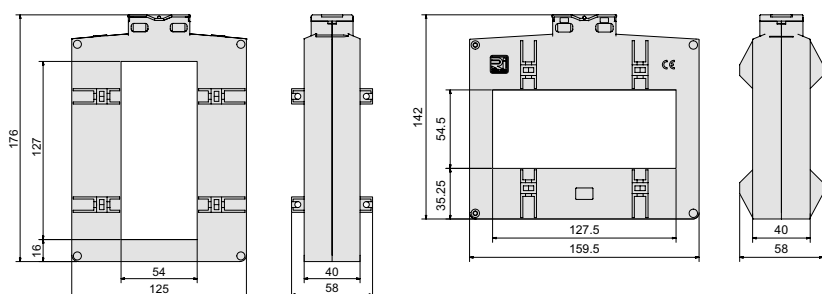
## Housing

Housing material	Self extinguishing polycarbonate
Protection degree (IEC/EN60529)	IP40 housing, Terminals IP20
Mounting	Busbar mounting
Weight	≤1.3Kg

## Connections

Primary winding	Passing cable
Secondary winding	Screw clamp connection - 6mm <sup>2</sup> Max.

## Dimensions (mm)



## Information Required with Order

Order example	RI-CT160	5A	6000	- H
Model				
Secondary Current				
Primary Current Range				
- See Parameters Table 'Order Code'				
Horizontal Option				
- if horizontal mounting is required add suffix '- H'				