

RI-CT055 Series



Single Phase High-accuracy Current Transformers

- From 30A to 300A Primary currents
- 5A Secondary output (1A available on request)
- 60mm width
- 21 x 21mm aperture
- Sealable terminal cover
- Supplied with DIN Rail mounting clip and mounting feet
- Compact design
- Indication of primary current flow (arrows on case body)

21x21mm

Product Description

The RI-CT050 Series forms part of a growing family of solid core single phase high-accuracy moulded case current transformers from Rayleigh Instruments

These high-accuracy 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 30A to 300A.

The RI-CT050 Series have been designed for ease of installation and are supplied with both DIN rail clip and busbar fixings. 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 0.2S VA	Class 0.2 VA	Class 0.5S VA	Class 0.5 VA	Class 1 VA	
30A	-	-	-	-	1	0030
40A	-	-	-	-	1	0040
50A	-	-	1	1	1	0050
60A	1	1.5	2	2.5	2.5	0060
80A	1.5	2	2.5	3	3	0080
100A	2.5	3.5	4	4	4	0100
150A	3	4	4	4	4	0150
200A	5	5	5	5	5	0200
250A	5	5	5	5	5	0250
300A	5	5	5	5	5	0300
400A	5	5	5	5	5	0400
500A	5	5	5	5	5	0500
600A	5	5	5	5	5	0600

Available with 5A Secondary (1A Secondary available on request)

Rated Standard

Rated Primary Current (I_{pr})	30...300A
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 (1A available on request)
Accuracy class	Class 0.2S, 0.2, 0.5S, 0.5 and 1 to IEC/EN61869-2

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

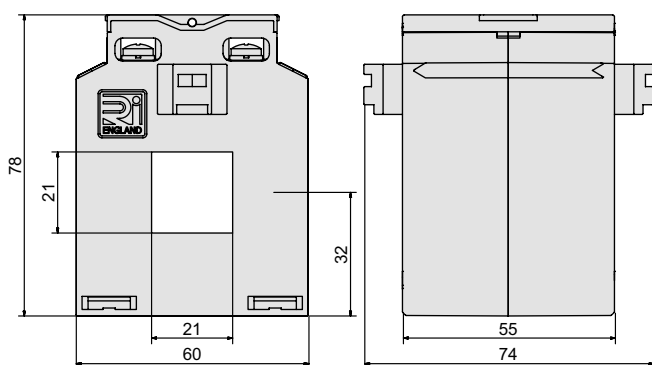
Housing

Housing material	Self extinguishing polycarbonate
Protection degree (IEC/EN60529)	IP40 housing, Terminals IP20
Mounting	Busbar mounting, or snap on 35mm DIN rail mounting
Weight	≤350g

Connections

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

Dimensions (mm)



Accessories

The RI-CT055 series of current transformers come supplied busbar clamping screws with insulator feet and a robust DIN rail mounting clip.



Information Required with Order

Build your order number - example	RI-CT055 5A 0100
Model	
Secondary Current	
Primary Current Range - See Parameters Table 'Order Code'	