

RI-CT250 Series

Three Phase Moulded Case Current Transformers



- From 630A to 1600A Primary currents
- 5A Secondary output
- Sealable terminal cover
- Supplied with DIN Rail mounting clip and mounting feet
- Compact design
- Indication of primary current flow (arrows on case body)
- 54 x 50mm busbar/cable apertures
- 70mm bar centres
- 214mm width



Product Description

The RI-CT250 Series forms part of a family of solid core three 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 output and are available with Primary current input ranges from 630A to 1600A.

The RI-CT250 Series have been designed to fit a standard moulded case breaker size and are supplied with DIN rail clip, busbar mounting clamp 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 A	Burden			Order Code
	Class 0.5 VA	Class 1 VA	Class 3 VA	
630	2.5	5	7.5	0630
800	2.5	5	10	0800
1000	2.5	5	10	1000
1250	2.5	7.5	15	1250
1600	2.5	7.5	15	1600

Available with 5A Secondary

Rated Standard

Rated Primary Current (I_{pr})	630...1600A
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_{sr})	5A
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°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

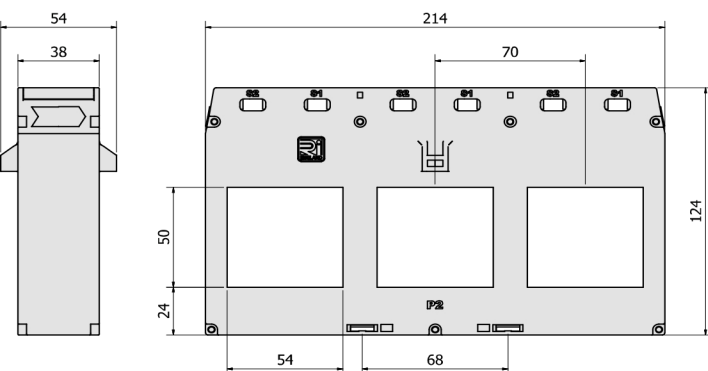
Housing

Housing material	Self extinguishing polycarbonate
Protection degree (IEC/EN60529)	IP40 housing, Terminals IP20
Mounting	Foot mounting, or snap on 35mm DIN rail mounting
Weight	$\leq 1200\text{g}$

Connections

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

Dimensions (mm)



Accessories

The RI-CT250 series of current transformers come supplied with a robust DIN rail clip, busbar mounting clamp and fixing feet.



Information Required with Order

Build your order number - example	RI-CT250 5A 0630
Model	
Secondary Current	
Primary Current Range - See Parameters Table 'Order Code'	