

RI-CT140 Series



Single Phase Moulded Case Current Transformers

- From 200A to 4000A Primary currents
- 5A or 1A Secondary output
- 96mm width
- 38 x 105mm aperture
- Sealable terminal cover
- Supplied with Busbar fixings
- Compact design
- Indication of primary current flow (arrows on case body)

105 x 38mm

Product Description

The RI-CT140 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 200A to 4000A

The RI-CT140 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	
200	-	2.5	3.75	0200
250	-	2.5	3.75	0250
300	1.5	2.5	5	0300
400	2.5	3.75	7.5	0400
500	3.75	5	7.5	0500
600	5	7.5	10	0600
700	6	8	12	0750
750	7.5	10	15	0750
800	10	15	20	0800
1000	10	15	20	1000
1200	12	15	20	1200
1250	12	15	20	1250
1500	15	20	25	1500
1600	15	20	25	1600
2000	20	25	30	2000
2500	25	30	40	2500
3000	25	30	40	3000
3200	25	30	40	3200
4000	25	30	40	4000

Available with 5A or 1A Secondary

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Rated Standard

Rated Primary Current (I_{pr})	200...4000A
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

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

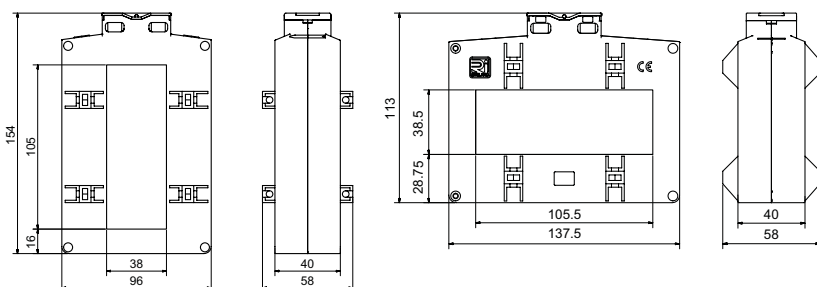
Housing

Housing material	Self extinguishing polycarbonate
Protection degree (IEC/EN60529)	IP40 housing, Terminals IP20
Mounting	Busbar mounting
Weight	≤1Kg

Connections

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

Dimensions (mm)



Information Required with Order

Order example	RI-CT140	5A	1600	- H
Model				
Secondary Current				
Primary Current Range				
See Parameters Table 'Order Code'				
Horizontal Option				
if horizontal mounting is required add suffix '- H'				