Rayleigh Instruments
EST. 1964

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RI-CT145 Series



High-Accuracy, Single-Phase Moulded Case Current Transformers

- High-accuracy, Class: 0.2S, 0.2 and 0.5S
- From 600A 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-CT145 High-Accuracy 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 600A to 4000A and Class accuracy of 0.2S, 0.2 and 0.5S.

The RI-CT145 High-Accuracy 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

	Burden			
Primary Current	Class 0.2S VA	Class 0.2 VA	Class 0.5S VA	Order Code
600	-	-	2.5	0600
700	-	-	3.75	0750
750	-	-	5	0750
800	-	-	7.5	0800
1000	-	-	10	1000
1200	-	5	10	1200
1250	-	7.5	10	1250
1500	-	7.5	15	1500
1600	10	10	15	1600
2000	15	15	20	2000
2500	20	20	20	2500
3000	25	25	25	3000
3200	25	25	25	3200
4000	25	25	25	4000

Available with 5A or 1A Secondary

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Rated Standard

Rated Primary Current (I_{pr})	600...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})	2.5Ith
Instrument security factor (FS)	≤5
Rated Secondary output (I_{sr})	5A or 1A
Accuracy class	Class 0.2S, 0.2 and 0.5S to IEC/EN61869-2

Insulation

Insulation type	Dry transformer, air insulation; Class B
Highest voltage (Um)	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

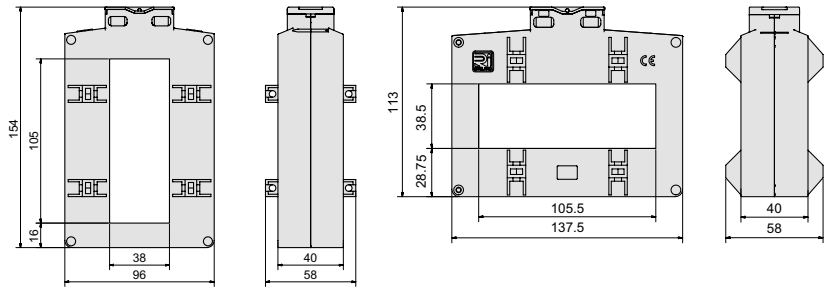
Housing

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 - 6mm² Max.

Dimensions (mm)



Information Required with Order

Order example	RI-CT145	5A	1600	*- H*
Model				
Secondary Current				
Primary Current Range *See Parameters Table 'Order Code'*				
Horizontal Option *if horizontal mounting is required add suffix '- H'*				

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