Rayleigh Instruments
EST. 1964

Telephone : +44 (0) 1245 428500
Email : sales@rayleigh.com

RI-CT165 Series



High-Accuracy, Single-Phase Moulded Case Current Transformers

- High-accuracy, Class: 0.2S, 0.2 and 0.5S
- From 800A 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-CT165 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 800A to 6000A and Class accuracy of 0.2S, 0.2 and 0.5S.

The RI-CT165 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
800	-	-	5	0800
1000	-	-	5	1000
1200	-	-	5	1200
1250	-	-	5	1250
1500	-	-	15	1500
1600	-	-	15	1600
2000	5	5	20	2000
2500	5	5	20	2500
3000	5	5	20	3000
3200	5	5	20	3200
4000	20	20	25	4000
5000	20	20	25	5000
6000	20	20	25	6000

Available with 5A or 1A Secondary

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Rated Standard

Rated Primary Current (I_{pr})	800...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})	2.5Ith
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

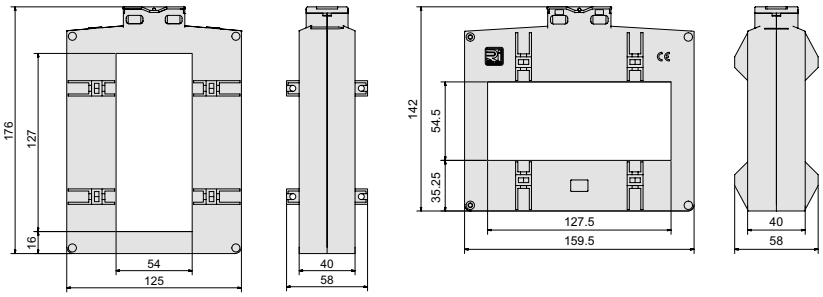
Housing

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

Connections

Primary winding	Passing cable
Secondary winding	Screw clamp connection - 6mm² 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'*				

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