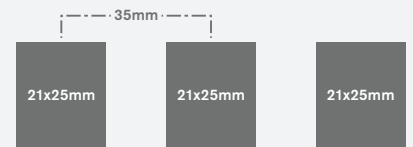


## RI-CT242-EW Series

### easywire® Three Phase Current Transformers



- Patented technology
- Foot, busbar or DIN rail mounting
- RJ45 connector output
- Safe to leave transformer on load with output disconnected
- Fits standard moulded circuit breaker frame sizes
- From 60A to 250A Primary current input available
- 330mV output
- Sealable RJ45 connection
- 105mm width
- 35mm bar centres
- 25 x 21mm apertures



#### Product Description

The RI-CT242-EW is part of the **easywire®** family of current transformers and is one of five frame sizes available.

The **easywire®** system has been designed to save up to 90% installation time compared to a standard current transformer to meter installation.

This three phase current transformer is suitable for monitoring current in industrial and commercial applications and is designed to connect to the **easywire®** series of metering products.

Built-in limiting circuitry ensures the secondary of the current transformer is always under load and clamped to a safe level. This means that the output connection may be safely disconnected while under load.

Improved design features of these **easywire®** current transformers include a robust 'snap-on' DIN rail fixing, captive busbar location screw fittings, insulated busbar location feet, sealable (anti-tamper) RJ45 connection sockets and moulded load direction indication arrows on the CT shoulders.

#### Parameters

Primary Current	Output (RJ45)	Order Code
60A	330mV	060
100A	330mV	100
125A	330mV	125
150A	330mV	150
160A	330mV	160
200A	330mV	200
250A	330mV	250

#### Options

The RI-CT242-EW is available with a horizontal RJ45 socket (stock) or a vertical RJ45 socket (to order).



## Rated Standard

Rated Primary Current ( $I_{pr}$ )	60...250A
Frequency Range ( $f_R$ )	47...63Hz
Rated continuous current	100% 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)	$\leq 5$
Rated Secondary output ( $V_{sr}$ )	330mV
Accuracy class	Class 1 to IEC/EN60044-8 & IEC/EN61869-2
Rated Secondary burden ( $R_{br}$ )	$>5k\Omega$

## 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 $\pm 1^\circ\text{C}$
Nominal temperature range	-25°C...40°C
Daily mean temperature	$\leq 30^\circ\text{C}$
Limit temperature range for storage	-40°C...85°C
Relative humidity	$\leq 85\%$ non condensing

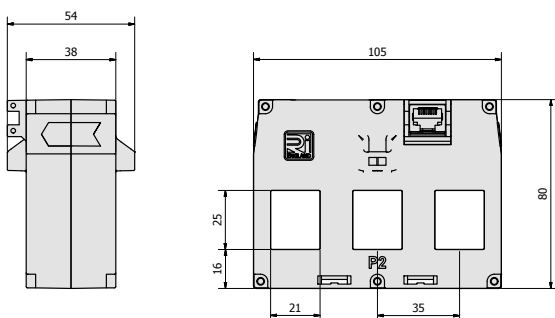
## Housing

Housing material	Self extinguishing polycarbonate
Protection degree (IEC/EN60529)	IP40 housing, Terminals IP20
Mounting	Foot mounting, busbar mounting or snap on 35mm DIN rail mounting
Weight	550g

## Connections

Primary winding	Passing cable
Secondary winding	RJ45 connection

## Dimensions (mm)



## Accessories

All **easywire**® 3 phase Current Transformers come supplied with fixing feet, busbar clamping screws with insulator feet, a robust DIN rail mounting clip and RJ45 connection anti-tamper seals.



## Information Required with Order

Build your order number - example	RI-CT242-EW 0160 - V
Model	
Primary Current Range - See Parameters Table 'Order Code'	
* Vertical RJ45 Option - for Vertical RJ45 connection add suffix '- V'	

\* Vertical option is to order only.