

ACCUline PCT-C

Customisable protection current transformer

from 40 to 4000 A rated - 120 kA in overload current



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The solution for

- > Energy
- > Infrastructure & Transport
- > Industry

Strong points

- > Wide range of measurement
- > Versatile installation
- > Universal
- > Infinitely customisable

Conformity to standards

- > IEC 61869-2
- > IEC 61010

Function

Protection current transformers measure the current load in the circuit. In the event of an abnormal current, such as a short circuit or overload, the protection current transformer can be paired with a relay that can trip protection devices to isolate the faulty part of the system and prevent possible damage.

Advantages

Wide range of measurement

The PCT-C range offers exceptional current coverage of up to 30 times the rated value to detect very large current faults.

Versatile installation

The PCT-C range offers installation flexibility, providing various mounting options whether on DIN rail or backplate. Furthermore, if the environment does not enable conventional installation, this equipment can be fitted directly onto the bar or cable.

Universal

The secondary current of the PCT-C range is available in 1 or 5 A. This versatility enables the PCT-C range to be used on all protection relays.

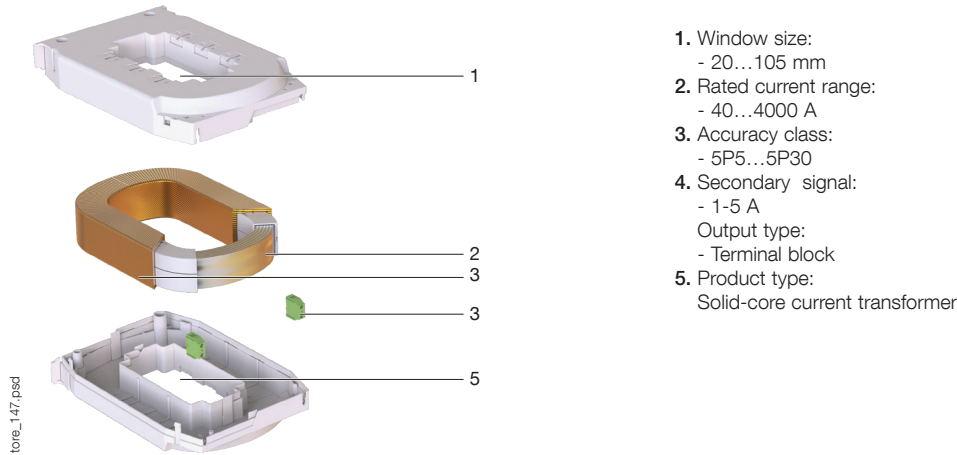
Infinitely customisable

The technical specifications are fully customisable, from rated current to the secondary current desired.

Current transformers adaptable to all your requirements

Socomec's PCT-C range can meet all your requirements thanks to its high capacity for customisation. From rated current to number of turns, the technical specifications can be adjusted to perfectly align with the requirements of your installation.

List of customisable characteristics



Selection guide

Need to configure your current transformers? Use the table below to guide your selection. Start by selecting the dimensions of your frame. The technical specifications can be fully adapted.

Parameters	PCT-C-20	PCT-C-40	PCT-C-90	PCT-C-105.42	PCT-C-105.62	without frame
Rated current range (A) ⁽¹⁾	40...600		40...1250	100...4000		Contact us
Actual current range (kA) ⁽²⁾	0.04...3	0.04...6	0.04...18.75	0.1...80	0.1...120	
Window size (mm)	20	40	90	105*42	105*62	
Accuracy class	5P5	5P5 5P10	5P5 5P10 5P15	5P5 5P10 5P15 5P20	5P5 5P10 5P15 5P30	
Secondary signal	5 A...1 A					
Frequency (Hz)	50...60					
Output type	Terminal block Pre-wired					
Phase-neutral voltage	300 V					
Measurement category	CAT III					
Rated withstand voltage	3 kV					
IP Rating	IP20 / IK 07					
Operating altitude	<2000					
Operating temperature	-10...+70 °C					
Storage temperature	-25...+85 °C					

1. The rated current of the current transformer is within the range of values specified.

2. In accordance with IEC 61869-2, accuracy class 5PXX means that the current transformer is accurate to 1% at 1*I_n and 5% at XX*I_n for a specified period. For example, a PCT-C-90 current transformer, with a rated current of 1250 A and an accuracy class of 5P15, can measure currents of up to 18.75 kA for a given amount of time.

References

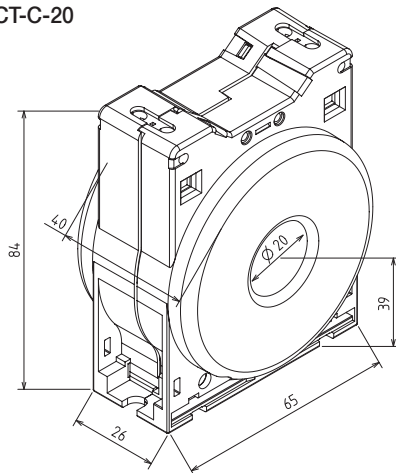
The ACCuline range offers the ability to adjust all parameters to create the perfect current transformer for your requirements. Do not hesitate to ask for advice or to obtain a quote by contacting your local Socomec dealer.

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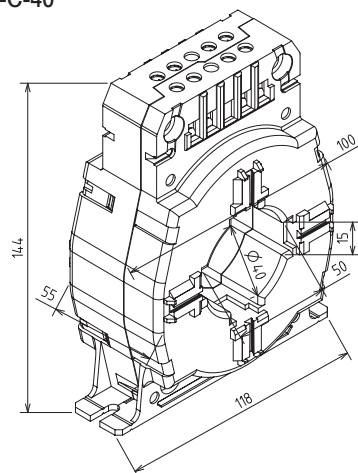
Dimensions (mm)

PCT-C-20



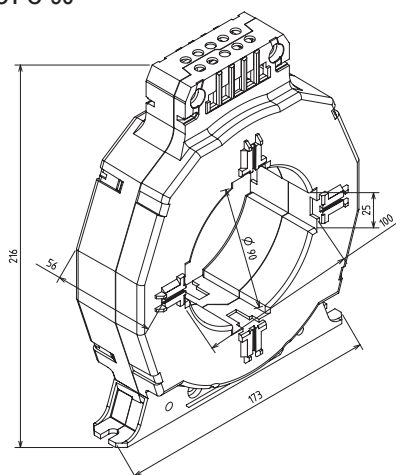
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PCT-C-40



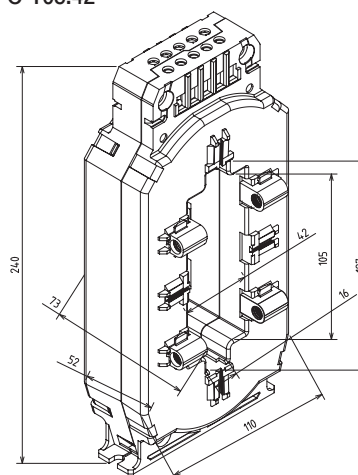
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PCT-C-90



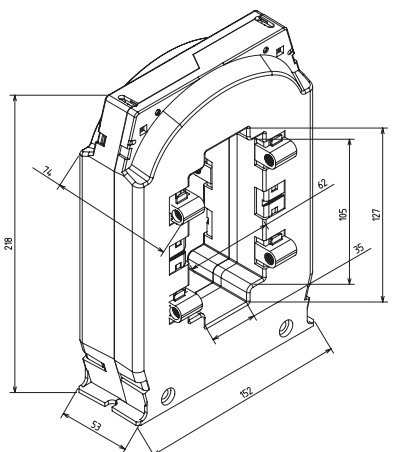
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PCT-C-105.42



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PCT-C-105.62



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Compatible accessories

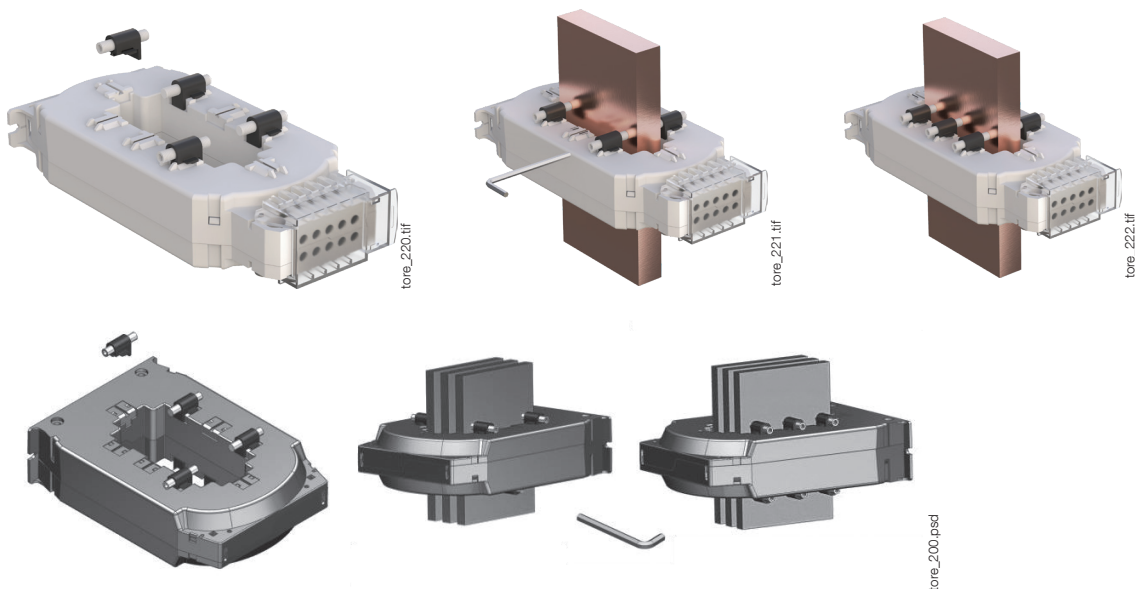
Versatile installation

Designed to simplify installation, the PCT-C range can be mounted conventionally (on DIN rail or front panel) or on bar or cable. This saves time and adds flexibility during installation.



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The entire PCT-C range is equipped with fixing screws for installation on one or more bars. This functionality is available for all frames except the PCT-C-62 frame.



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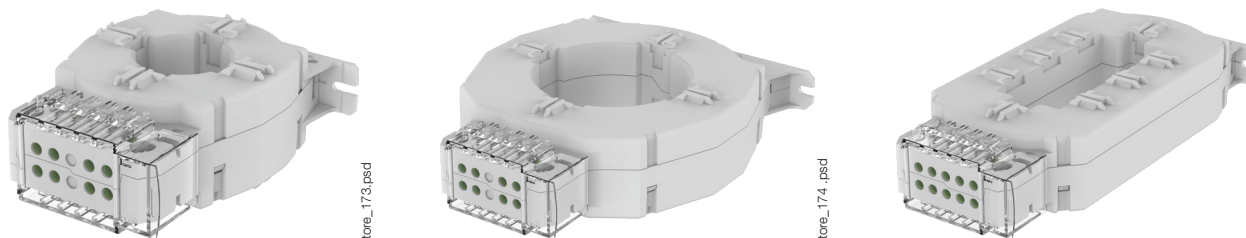
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Sealing

Sealing enables the cover to be sealed preventing any unauthorised modification of the connections. This functionality is available for the whole PCT-C range except the PCT-C-20 and PCT-C-105.62 frames.



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