Using CSH120 and CSH200 with VAMP protection relay range

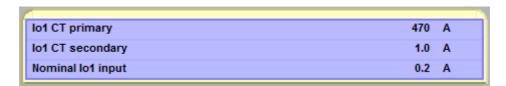
General

The specifically designed CSH120 and CSH200 core balance CTs are for direct residual current measurement. The only difference between them is the diameter. Due to their low voltage insulation, they can only be used on cables.

These core balance CTs can be connected to VAMP protection relay range when 0.2A loinput is used. This needs to be determined when ordering the protection relay (select 1A and 0.2A or 1A/0.2A in Earth fault current input at order options).

Settings in VAMP protection relay

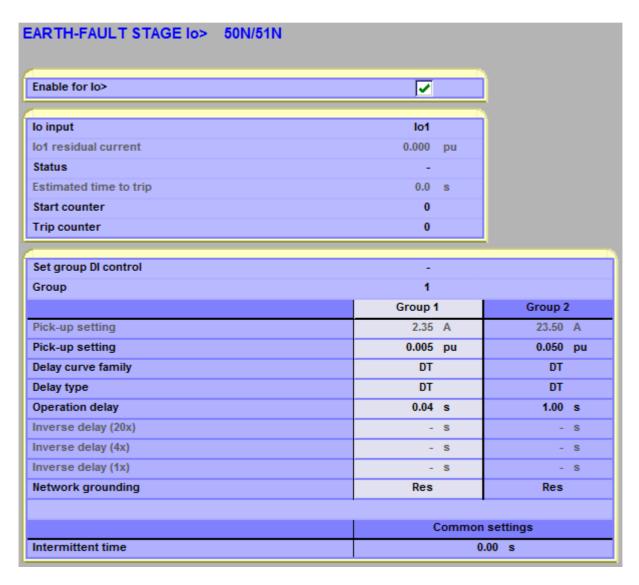
When CSH 120 or CSH 200 is connected to VAMP protection relay the scaling settings must be set as following to secure correct operation of the protection functions and measurement values. Io(X) CT primary 470A, Io(X) CT secondary 1A and Nominal Io(X) input 0.2A. See attached picture 1. **NOTE**: (X) refers to the lo-input channel number i.e. 1 or 2.



Picture 1.

Measuring specifications

When CSH 120 or CSH 200 is used with VAMP protection relays the measuring range is 0.2A-300A of primary current. Minimum setting for primary current is 0.005xIn which in this case means 0.005x470A=2.35A of primary current. See attached picture 2.



Picture 2.



CSH120 and CSH200 core balance CTs.

[Application note]

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