

MPS VOLTAGE SEQUENCE - TWO PT CONNECTION

The MPS requires an A-B-C sequence with PT's connected as shown in Fig. 1. Note: No overcurrent protection shown.



In this configuration, the following display conditions are observed:

- Vab, Vbc, and Vca are balanced.
- +Sequence voltage reading indicates a per-unit value based on the input voltage rating. If the voltage-input is 120 Vac and the PT voltage is 120 V, then the per-unit value is 1.0.
- -Sequence reading is small indicating a balanced system.
- The voltage unbalance reading is a small positive value.

If the phase sequence is not A-B-C, the following display conditions are observed:

- Vab, Vbc, and Vca are balanced.
- +Sequence voltage reading is low.
- -Sequence voltage reading indicates a per-unit value based on the input voltage rating. If the voltage input is 120 Vac and the PT voltage is 120 V, then the per-unit value is 1.0.
- The voltage unbalance reading is a small negative value.
- The MPS trips on phase sequence if this feature is enabled.



Technical Note - Motor Protection

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The MPS does not have a software selectable phase sequence setting. The preferred method for changing the sequence is to swap two of the phases; however, if this is not possible, the sequence can be corrected by swapping the VA and VC voltage inputs on the MPS as shown in Fig. 2.



Phase CT inputs may need to be changed for correct power readings. There are a number of causes for incorrect power readings, please consult factory for solutions on specific applications.