

Phase Sequence Check Calculator

Estimate relative phase angles, then compare the observed sequence and spacing with the entered expectation.

Generated October 10, 2026

<https://www.elecatrrix.com/testing-protection-grounding/phase-sequence-check-calculator/>

Inputs		
Input	Value	Unit
Phase A angle	N/A	deg
Phase B angle	120	deg
Phase C angle	240	deg
Expected sequence	ABC	
Maximum spacing error	15	deg
Results		
Result	Value	Unit
Relative B angle	120	deg
Relative C angle	240	deg
Observed sequence	abc	
Phase spacing error	N/A	deg
Sequence comparison	Matches entered sequence and spacing tolerance	
Calculation details		
Detail	Value	Unit
Calculation basis	The worksheet normalizes B and C relative to A, infers the lower-relative-angle order, and compares spacing with 120/240 degree targets.	
Boundary	Screen only; this does not certify phase rotation, identify energized conductors, or replace an instrumented phase-sequence check.	
Formulas		

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Estimate relative phase angles, then compare the observed sequence and spacing with the entered expectation.

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relative B angle = $\text{normalize}(\text{B angle} - \text{A angle})$

relative C angle = $\text{normalize}(\text{C angle} - \text{A angle})$

observed sequence = ABC when relative B angle is less than relative C angle, otherwise ACB

phase spacing error = $\text{minimum target-spacing error} / 2$

Warnings and limitations

Gated worksheet only. It does not certify phase rotation; instrumented testing and qualified review are required for any field conclusion.