

GFCI Trip Time Calculator

Compare measured GFCI trip time with an entered reference limit and recorded test current.

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<https://www.elecatrrix.com/testing-protection-grounding/gfci-trip-time-calculator/>

Inputs

Input	Value	Unit
Measured trip time	24	ms
Entered trip-time reference limit	30	ms
Recorded test current	6	mA

Results

Result	Value	Unit
Trip time margin	6	ms
Trip time percent of limit	80	%

Calculation details

Detail	Value	Unit
Trip-time comparison	Measured trip time is within the entered limit.	
Calculation basis	GFCI trip-time screen compares measured trip time with an entered reference limit.	
Review boundary	Measured-test worksheet only; no GFCI protection certification, device approval, class/table limit selection, or energized-work decision is made.	

Formulas

trip time margin = entered reference limit - measured trip time

trip time percent of limit = measured trip time / entered reference limit x 100

Warnings and limitations

Measured-test worksheet only; this worksheet does not certify GFCI protection, select a class or table limit, approve a device, or make an energized-work decision.