

Leakage Current Screen Calculator

Compare entered leakage current with a documented reference and express it as a share of entered load current without embedding a safety limit.

Generated October 10, 2026

<https://www.elecatrrix.com/testing-protection-grounding/leakage-current-screen-calculator/>

Inputs

Input	Value	Unit
Measured leakage current	2.4	mA
Reference leakage current	3.5	mA
Load current	12	A

Results

Result	Value	Unit
Leakage margin	1.1	mA
Leakage percent of load	0.02	%
Reference comparison	Within entered reference	
Load current used	12	A

Calculation details

Detail	Value	Unit
Calculation basis	Leakage margin equals entered reference leakage current minus measured leakage current.	
Testing boundary	Worksheet arithmetic only; no safety approval, product compliance, shock-risk result, or energization decision is made.	

Formulas

leakage margin = entered leakage reference - measured leakage current

leakage percent of load = measured leakage current / load current x 100

status = within reference when measured leakage current is less than or equal to the entered reference

Warnings and limitations

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This worksheet does not determine electrical safety, shock hazard, product compliance, GFCI behavior, or permission to energize. Apply only with qualified review.