

Breaker Interrupting Rating Calculator

Compare a breaker interrupting rating with available fault current at the same equipment location and report the rating margin and utilization percentage.

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<https://www.elecatrix.com/testing-protection-grounding/breaker-interrupting-rating-calculator/>

Inputs

Input	Value	Unit
Breaker interrupting rating	22000	A
Available fault current	18000	A

Results

Result	Value	Unit
Rating margin	4000	A
Available current percent of rating	81.8182	%

Calculation details

Detail	Value	Unit
Rating comparison	Entered interrupting rating is above available fault current.	
Calculation basis	Rating comparison uses entered available fault current and entered rating on the same system basis.	
Review boundary	Entered-rating comparison only; no interrupting-rating approval, series rating, listing, equipment duty, or code compliance result is made.	

Formulas

$$M_{\text{rating}} = I_{\text{rating}} - I_{\text{AFC}}$$

$$\text{AFC percent} = \frac{I_{\text{AFC}}}{I_{\text{rating}}} \times 100$$

Warnings and limitations

Entered-rating comparison only; this calculator does not approve breaker interrupting rating, series rating, equipment listing, equipment duty, or code compliance.