

Motor Branch Circuit Protection Calculator

Estimate an entered motor protection reference and compare it with a selected rating for qualified review.

Generated October 10, 2026

<https://www.elecatrix.com/motors-starters/motor-branch-circuit-protection-calculator/>

Inputs

Input	Value	Unit
Motor FLA	28	A
Entered protection factor	250	%
Selected protection rating	70	A
Source reference	motor-protection-record-a	

Results

Result	Value	Unit
Entered reference protection	70	A
Selected protection rating	70	A
Protection margin	N/A	A
Protection margin	N/A	%
Record comparison	Source reference recorded	

Calculation details

Detail	Value	Unit
Calculation basis	Entered motor FLA is multiplied by the entered protection factor and compared with selected protection rating.	
Boundary	Preliminary entered-value comparison only; no protective-device table, interrupting rating, coordination, listing, or final motor protection result is made.	

Formulas

entered reference protection = motor FLA x entered protection factor / 100

protection margin = selected protection rating - entered reference protection

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protection margin percent = protection margin / entered reference protection x 100

Warnings and limitations

Preliminary entered-value comparison only; verify motor starting, overload, device class, interrupting rating, coordination, listing, adopted rules, and qualified review separately.