

Motor Feeder Calculator

Estimate multi-motor feeder current from entered motor currents and a largest-motor factor for qualified review.

Generated October 10, 2026

<https://www.elecatrix.com/motors-starters/motor-feeder-calculator/>

Inputs

Input	Value	Unit
Motor rows	Rows: 1	
Row 1 - Motor label	Motor A	
Row 1 - Running current	28	A
Entered largest-motor factor	125	%
Source reference	motor-feeder-record-a	

Results

Result	Value	Unit
Total running current	28	A
Largest motor running current	28	A
Feeder screen current	63	A
Motor row count	1	

Record comparison	Source reference recorded
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Calculation details

Detail	Value	Unit
Calculation basis	The calculation sums entered motor running currents and adds the entered factor of the largest running motor.	
Boundary	Preliminary feeder arithmetic only; no feeder conductor, service, overcurrent, demand, starting, or final motor-system result is made.	

Formulas

total running current = sum of motor running currents

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largest motor contribution = largest running current x entered largest-motor factor / 100

feeder screen current = total running current + largest motor contribution

Warnings and limitations

Preliminary entered-value estimate only; verify motor schedule, starting behavior, demand method, feeder data, protection, utility conditions, and qualified review separately.