

Contactor Coil VA Calculator

Calculate screening-only coil VA when steady and pickup current values are available from a device record or measurement.

Generated October 10, 2026

<https://www.elecatrix.com/circuits-components/contactor-coil-va-calculator/>

Inputs

Input	Value	Unit
Coil voltage	24	V
Steady-state current	0.2	A
Inrush current	1.5	A

Results

Result	Value	Unit
Steady-state VA	4.8	VA
Inrush VA	36	VA
Inrush-to-steady ratio	7.5	x
Inrush excess	31.2	VA

Inrush status

Inrush VA exceeds steady-state VA

Calculation details

Detail	Value	Unit
Calculation basis	Steady and inrush VA are each calculated as coil voltage multiplied by the corresponding entered current.	
Screening boundary	Arithmetic screening only; verify AC or DC coil behavior, pickup timing, suppression, transformer capacity, control voltage tolerance, and manufacturer data.	

Formulas

steady VA = coil voltage V x steady-state current A

inrush VA = coil voltage V x inrush current A

inrush ratio = inrush VA / steady VA

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$\text{inrush excess VA} = \text{inrush VA} - \text{steady VA}$

Warnings and limitations

This is contactor-coil arithmetic only. It does not approve a transformer, power supply, contactor, suppression device, protection method, or control circuit.