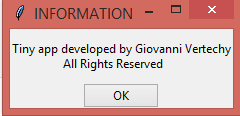
*Tiny FE Calculator* is a tabbed-type tiny utility; as of June 2019 is a demo prototype, based on UL 508 A requirements for general use ICPs; other functions/requirements (such as those for industrial machinery) may be implemented.

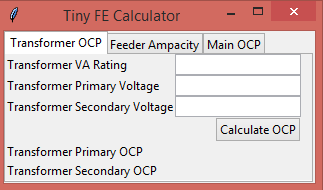
To launch the app double-click on the program icon; a message windows pops up:



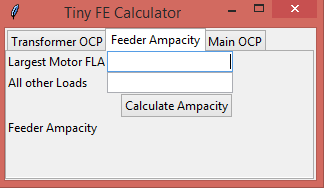
Click OK to open the program.

Functionality is pretty much self-explanatory:

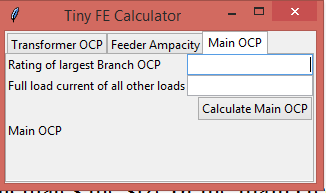
1. Tab 1: Transformer OCP - it calculates primary and secondary overcurrent protection size of single-phase control transformers. Reference: UL 508 A, par. 42.1.3 (Table 42.2).



1. Tab 2: Feeder Ampacity - it calculates the ampacity of feeder conductors on the load side of the main (feeder) overcurrent protective device; the “All other Loads” field requires a dash-separated number sequence, such as: 12-45.7-27.2 (no other characters such as commas, spaces, etc. shall be used). Reference: UL 508 A, par. 28.3.3



1. Tab 3: Main OCP - it calculates the size of the main (feeder) overcurrent protective device; the “FLA of all other circuits” field requires a dash-separated number sequence, such as: 12-45.7-27.2 (no other characters such as commas, spaces, etc. shall be used). Reference: UL 508 A, par. 32.3.1 (b)



Note: depending on the (largest) branch circuit protection size (such as when the largest branch OCP is close to the largest motor FLA - for example when using self protected combination motor controllers) the calculated Main OCP may be lower than the calculated feeder ampacity; the result is mathematically correct, but determination of main ocp size requires electrical engineering judgement.