

Success Example Shortcircuit Withstand Calculation Report

This document shows the calculation results of shortcircuit withstand on specified busbar arrangement

Project info:

Project name	Success Example
System Voltage	440 V
System frequency	60 Hz
Initial symmetric shortcircuit current	16 kA

Calculation results:

Maximum magnetic force on mid-busbar	808.11 N
Mechanical stress on busbars	73.74 MPa
Maximum internal supports strength	631.23 N
Maximum external supports strength	1735.89 N

Conclusion

The arrangement proposed can resist the shortcircuit event.
For better results, check if you can reduce the support distances and/or increase the phase distance.

WARNING: these results are totally theoretical and maybe they do not represent all the reality.
Consider other environment variables to make better approaches to the arrangement calculated

If you have any questions or issues about results please contact me:
joosorio@utp.edu.co

NOTE: the use of this app is ONLY for educational purposes, not for commercial or industrial use.