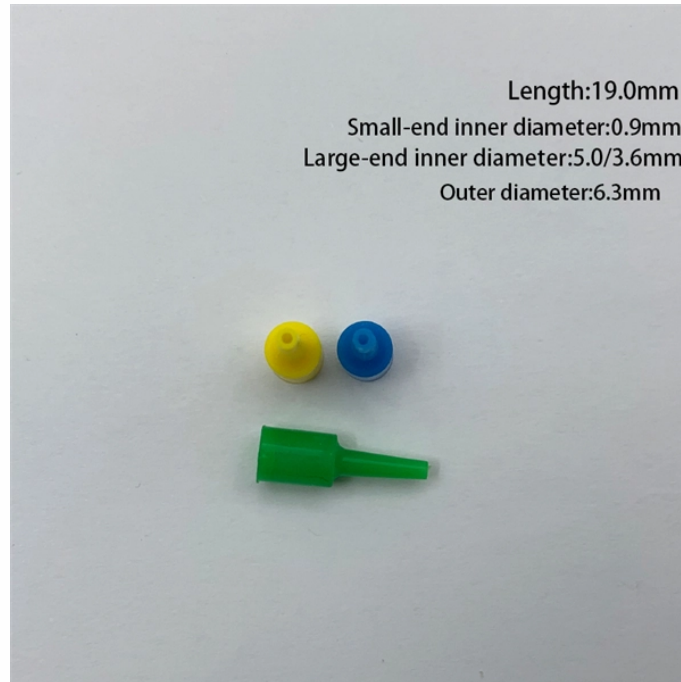




## Low-voltage busbar PT resonance




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The resonance characteristics, short-circuit displacement, and stress concentration of four typical busbar system arrangements are numerically analysed in this study.



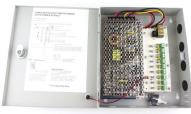
In this article, EMS will compute the Lorentz force of a low-voltage busbar system during a short-circuit scenario, comparing the results with analytical solutions.



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Every mechanical structure has natural resonance frequencies, including the low voltage busbars of transformers.



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I worked twelve years at Schneider Electric in the position of technical support for low- and medium-voltage projects and the design of busbar trunking systems.



The paper concerns the effects of electrodynamic forces that act on the current paths of the industrial low-voltage busbar. This work is composed of experimental and simulation sections.



This paper clarifies the mechanism of ferromagnetic resonant overvoltage in PT and constructs a resonant overvoltage model using PSCAD-EMTDC electromagnetic simulation software ...



The resonance characteristics, short-circuit displacement, and stress concentration of four typical busbar system arrangements are numerically analysed in this study.



In light of the resonance issues observed with the 6.6 kV emergency busbar voltage transformers (PT) at domestic nuclear power plants, and as part of feedback from industry peers, the owner of a certain ...



This is the case of low voltage (LV) switchboards and of prefabricated transformer-switchboard connections. This quest for dependability requires studies in order to master, from the design stage, ...

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