

## **Modeling of automatic frequency increase limiting devices in the RuStab software package.**

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The article investigated the modeling of automatic frequency limiting devices in the RuStab software package taking into account the requirements of GOST P 59373-2021. The measuring part of the AFIL device, the frequency and frequency derivative response stages, their return, the network connection diagram, functional features and operation algorithm were considered. Two models of the AFIL device were also implemented: in the user device designer and using the automation model designer. In conclusion, the calculated case of power imbalance in the network is considered and graphs of electromechanical transient processes are given.

*Key words: automatic frequency increase limitation, user device designer, automatic model designer, frequency measurement methods, macroblocks, frequency measurement methods.*