



DECLARATION OF CONFORMITY TO THE ITALIAN GRID CODE STANDARD

Italy grid codes Standards require an operation outside of the IEC 60034 Voltage and Frequency range.
The alternators are designed to be in compliance with

- ✓ Italian CEI 0-16 ed. 2022-03
- ✓ Italian CEI 0-21 ed. 2022-03, chapter 8. 4. 1. 2 & chapter 8. 4. 4

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The manufacturer hereby declares that the synchronous alternators of series:

- ✓ Low voltage: LSA 40 – 42.3 – 43.2 – 44.2 - 44.3 – 46.2 – 46.3 – 47.2 – 47.3 – 49.1 – 49.3 – 50.2 – 52.2 - 52.3 – 53 – 53.2 – 54 – 54.2 – 55.3 – 56 – 58
- ✓ High voltage: LSA 50 – 52.2 – 52.3 – 53 – 53.2 – 54 – 54.2 – 55.3 – 56 – 58 – 60 – 62
- ✓ As well as their deviations

The above declaration is made subject to:

- ✓ Approval by Leroy-Somer regarding the dimensioning of synchronous generators
- ✓ Recommended use of Leroy-Somer D550 or D700 AVR

The temperature rise of the stator and rotor windings, at a given shaft power at nominal Voltage / frequency, power factor 0.8 lagging, 40°C cold air temperature and at altitudes not higher than 1,000m must not exceed temperature rise according class F according IEC 60034.

Generators are compliant for operations within the frequency range 47,5 Hz to 51,5 Hz and within the voltage range 85% to 110% of nominal voltage, as required by above mentioned rules.

A power reduction must take place below 49 Hz and above 51 Hz according the following graph.

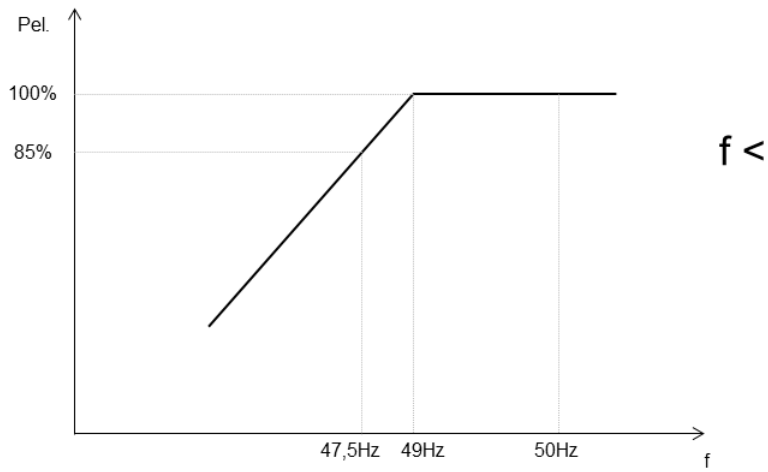
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SAS au capital de 32 239 235 € - RCS Angoulême 338 567 258.

Power reduction during operation with under frequency



Under worst operation cases for voltage, frequency & power factor ranges the temperature rise may be higher than class F but will be managed in order to not exceed temperature rise of thermal class H according to IEC 60034.

le 12/09/22

Patrice Betge
Engineering Director,
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