



Fig. 6. Final results provided by the identification algorithm considering the operating condition selected in Fig. 3

4. Conclusions

The main conclusions of the present work are summarized as follows:

- Previously to the application of the identification procedure, it is important to perform an adequate selection of the initial centred values and the searching ranges. The interest of this work lies in the fact that it helps to fix the appropriated search range for determining the value of each parameter.
- The sensitivity assessment allows decreasing the number of significant parameters in the model.
- Several terms can be removed from the identification procedure, due to their low sensitivity. It implies that the number of terms to be identified can be reduced from 30 to 18.
- On the other hand, some parameters need a deeper study, mainly those associated with the injector armature.

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