

Algorithm of operation of the control system of the bidirectional inverter drive SDPM of a hybrid aircraft with a distributed power supply

*A. N. Varyukhin, M. V. Gordin, A. V. Dutov, Ya. E. Zharkov, A. L. Kozlov,
S. I. Moshkunov and V. Yu. Khomich*

¹ FSUE “CIAM named after P. I. Baranov”
2 Aviamotornaya st., Moscow, 111116, Russia

² Moscow Federal State Budgetary Educational Institution of Higher Education
“Bauman Moscow State Technical University”
5/1 Baumanskaya st., Moscow, 105005, Russia

³ National research center «Institute named after N. E. Zhukovsky»
7 Viktorenko st., Moscow, 125319, Russia

⁴ Institute for Electrophysics and Electric Power RAS
18 Dvortsovaya nab., St.-Petersburg, 191186, Russia
E-mail: serg-moshkunov@yandex.ru

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In this paper, a control system for a bi-directional inverter drive for a permanent magnet synchronous motor (PMS) has been designed. The given system allows to control the electric motor both in torque generation mode and in power recovery mode, providing high efficiency of operation and safety of SPM functioning in both cases.

Keywords: bidirectional inverter drive, permanent magnet synchronous motor, control system, motoring mode, regenerative mode.

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