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THE INFLUENCE OF THE ROTOR SPEED ON THE TRANSIENT ELECTROMAGNETIC TORQUE COMPONENTS

BY

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Abstract. The paper describes the manner in which the components of the electromagnetic torque change their main characteristics with the change of the angular rotor speed at supply moment. These influences are referred to in the case of higher speeds and separately in the case of lower speeds, since the mathematical expressions of the components differ in the two cases. In the end, the situation of reversing the rotation direction (brake operating state) is presented.

Keywords: induction machine, transient, electromagnetic torque.