THE ANALYSIS OF INFLUENCE
UNEQUAL PARAMETERS OF MOTORS
ON THE WORK OF MULTIMOTORS TRACTION DRIVE

Michał JANASZEK

ABSTRACT
An analysis of the work a four-motor electric traction drive intended for off-road vehicles has been presented in the article. In the drive, a permanent magnet synchronous motors with the reverse construction mounted directly on the drive wheels of the vehicle have been applied. A method of direct current control with voltage vector modulation has been used in the control system. The results of simulation specifying the influence of unequal parameters of synchronous motors on the work of the drive has been presented.

Keywords: electric drive, synchronous motor