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STEPPING MOTOR DRIVE SYSTEM REPLACING AC ELECTRIC SERVO DRIVE IN A PROCESSING DEVICE

ABSTRACT *As a result of dynamic development that takes place in the field of controlling AC motors, designers of machines and various devices usually apply servo drives with induction or synchronous motors, relying both on their remarkable operational characteristics as well as their long life. However, advanced electronic systems and sophisticated software, necessary for obtaining such characteristics, are quite expensive. The authors present in the paper an example of an actuating system for a processing device powered by AC servo drive. As proved by the model studies that have been carried out, the servo drive can be replaced with a stepping motor that is few times less expensive, and at the same time meets all the requirements related to its operation.*

Keywords: *electrical drives, stepping motors, servo drives.*