Design of electric drive system for air compressor

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Abstract: In the context of increasingly scarce energy and severe environmental impacts, designing an electric drive system for air compressors has become essential to improve energy efficiency. This project aims to develop an advanced electric drive system with performance optimization solutions. The research methodology combines theoretical modeling and experimental technology to ensure practical applicability. The expected outcomes include reduced energy consumption and enhanced reliability of the air compressor system, making a significant contribution to the field of electric drive engineering.

Keywords: electric drive system, air compressor, performance optimization, modeling, experiment