

Cost Savings Case Study

Installed Base Evaluation

**Executive Summary-
Motor Evaluation**

Industry: Paper Products

Opportunities to reduce energy consumption

Identify potential cost savings opportunities

Provide a replacement inventory list



Call. 800-526-9328
Click. www.MotionIndustries.com
Visit. Over 550 Locations

A row of social media icons for Facebook, Google+, Instagram, LinkedIn, Pinterest, Twitter, YouTube, and the Motion Industries logo.



Executive Summary

Baldor's Installed Base Evaluation Team surveyed the electric motors installed at a paper product manufacturing facility. The purpose of the evaluation was to capture information on all of the existing motors, look for opportunities to reduce energy consumption, identify potential cost savings opportunities, and provide a replacement inventory list. This report will show the details of the evaluation, and illustrate how the use of Baldor-Reliance brand products can favorably impact your bottom line.

Overview

Over the course of the evaluation information was collected and reviewed on 1,460 motors from twenty-eight (28) different manufacturers. The largest motor surveyed was the 4,100HP #1 and #2 TAD Supply Fan motor. There were (265) motors in service at 1HP, the most common rating. There were (112) 2HP motors, the second most common rating. There are 245 motors in service that are 100HP or larger. Out of the 1,460 motors currently in operation, we were able to successfully interchange 1,023 of them to a standard Baldor model number. In addition to the Baldor part number, we have also furnished the manufacturing facility's internal part #, whether they currently have stock and its location, and if not, the current lead time. The remaining 437 motors were either of special design, or missing information, and would need to be reviewed and quoted on a case by case basis.

Assumptions

We were provided an energy cost of \$.067 per kilowatt hour and annual operations totaling 8,699 hours. We assumed 100% motor loading. Actual efficiency gains and true energy costs will vary from the assumptions made in this report.

Cost Reduction Opportunities

The most cost effective energy reduction opportunity at this facility is to replace the 22 motors showing "Replace Motor Now" with recommended Baldor motor. These motors all have a payback less than 2 years and would result in \$7,436.91 in annual energy savings. If all of the motors currently in service were replaced with Baldor Super-E designs, a total of \$58,459.05 in energy reduction could be achieved.

Another opportunity for cost reduction is through standardization of Baldor brand products: Baldor-Reliance, Baldor-Dodge, and Baldor-Maska. Standardization has a large and positive impact on simplifying the procurement process as well as inventory management.



Call. 800-526-9328
Click. www.MotionIndustries.com
Visit. Over 550 Locations

A row of social media icons for Facebook, Google+, Instagram, LinkedIn, Pinterest, Twitter, YouTube, and a custom icon.