SKF Energy Efficient deep groove ball bearings for medium size electric motors

Benefits*
- 30–50% lower bearing friction for increased motor efficiency and reduced energy consumption
- Long-lasting, low-friction grease doubles bearing life
- Smoother running for less noise and vibration; cooler running for less heat generation in the motor
- Reduced total cost of ownership
- Reduced waste associated with maintenance / replacement
- Dimensionally interchangeable with standard bearings
- Excellent drop-in replacement for in-service electric motors
- Available off-the-shelf in selected sizes

Extended bearing range enables significant savings for motors up to 350kW
Like today’s motor designers and manufacturers, electric motor rebuilders are focused on motor efficiency to reduce energy consumption, and to stay a cut above the competition. SKF Energy Efficient (E2) deep groove ball bearings can help them to do both, with a solution that’s easy to implement during rebuilds.

Initially developed for electric motors up to 37 kW (50 hp), the SKF E2 deep groove ball bearing range now includes drop-in replacements for motors up to 350kW (~500 hp). The range extension features an improved internal design and surface finish, plus a special low-friction grease. The complete range includes shielded, greased-for-life bearings that can help end-users realize several benefits.

Reduce friction with your next rebuild
For bearings, friction loss = energy loss. Compared to standard SKF bearings, SKF E2 bearings cut bearing friction losses by 30–50%. Compared to bearings from other manufacturers, SKF E2 bearings can reduce friction losses even more. Installing these bearings during motor repairs gives end-users an opportunity to save energy – the bigger the motor, the bigger the potential for savings.

A longer lifecycle and lower Total Cost of Ownership
Because lower friction means less heat generated in the bearing, SKF E2 deep groove ball bearings run cooler than conventional SKF bearings. Pre-greased with our own specially developed low-friction grease, SKF E2 deep groove ball bearings can reduce the likelihood of future breakdowns, boosting uptime and process productivity.

All of these factors combine to enable faster motor speeds and longer bearing and motor lifecycles. Ultimately, SKF Energy Efficient deep groove ball bearings can boost motor uptime and energy efficiency, reducing maintenance, repairs and operating costs in the process.

For more information about SKF Energy Efficient deep groove ball bearings, contact your local sales office or visit www.skf.com

* Compared to standard SKF deep groove ball bearings (in light to medium load applications)

This offer is part of the SKF BeyondZero portfolio of products, services and solutions designed to help our customers reduce environmental impact. To learn more, visit www.beyondzero.com
Increase the return on your maintenance investment with SKF

The whole idea behind the SKF 360° Solution is to help equipment end-users get more out of their plant machinery and equipment investments. As with SKF Energy Efficient deep groove ball bearings, SKF solutions may involve lowering maintenance costs, raising productivity, or both!

UK-based rebuilder puts SKF to the test

How much energy can SKF E2 bearings save?

Matt Fletcher, a SKF Certified Rebuilder and managing director of UK-based rebuilders Fletcher Morland Ltd., decided to find out.

First, Fletcher measured the energy consumed by a brand new 7,5kW motor. He then dismantled the unit and equipped it with SKF E2 deep groove ball bearings. The result?

The motor with SKF E2 deep groove ball bearings turned slightly faster at no load test. During the load test, the motor drew 150 Watts less than it did with the standard bearings. For a 7,5kW motor, a reduction of 150 Watts is a significant saving.

Applied widely to motors of bigger frame sizes and longer duty cycles in industrial facilities worldwide, the energy-saving potential is enormous.

To further emphasize the positive results of his test, Fletcher noted that “the features of the new SKF E2 bearing increase the expected service life of the motor – another benefit to our industrial users that also reinforces our good-will in the market.”