

Q-SYNC™ HIGH EFFICIENCY FAN MOTORS

Vons-Safeway-Albertsons, San Diego, CA

Background:

Safeway-Albertsons has over 2,200 stores in the U.S. across 33 states; it is the largest supermarket chain in California, including its Vons stores in San Diego and among the largest grocers in the world. Safeway-Albertsons has quietly built one of the most impressive environmental records of any retailer in America. It has already replaced a significant amount of its shaded pole fan motors with electronically commutated motors. Safeway-Albertsons evaluated QM Power's Q-Sync motors to further drive energy savings.

Process:

The demonstration involved first conducting a detailed energy audit of the refrigeration equipment in the store to analyze current energy usage. Next, a head-to-head comparison was set up to measure the energy reduction in an egg case from replacing both a Shaded Pole motor and Electrically Controlled Motor (ECM) with the Q-Sync motor. The majority of existing 9-12 Watt motors were then retrofitted with Q-Sync motors.

Results:

QM Power performed the measurement and verification confirming Q-Sync as the highest efficiency motor for commercial refrigeration applications. Q-Sync motors produced 38% less watts and 68% less amps than the incumbent ECM motor and used 71% less watts and 75% less amps than incumbent Shaded Pole Motors.

Outcome:

The reduction in energy usage from retrofitting the case with a Q-Sync motor combined with the high potential for energy savings throughout the store prompted them to retrofit more cases with Q-Sync motors.

Store Description

- Vons-Safeway-Albertsons: San Diego, CA
- 177 evaporator fan motors were retrofitted in commercial refrigeration and freezer applications

Contact Information

- Call us 24 hours a day at: **(816) 246-4200**
- Visit us online at: **www.qmpower.com**

**Average
Watts Saved
(over ECM):
38%**

**Average
Amps Saved
(over ECM):
68%**

“Using Q-Sync instead of an Electrically Commutated Motor (ECM) would be the equivalent of taking at least ONE of every TWO motors off the grid.”

“When compared to shaded pole motors, using Q-Sync motors would be the equivalent of taking FOUR of every FIVE motors off the grid.”

-Dr. Bryan Becker
Former ASHRAE Technical Committee
Chairman, Refrigeration Applications
for Foods & Beverages

