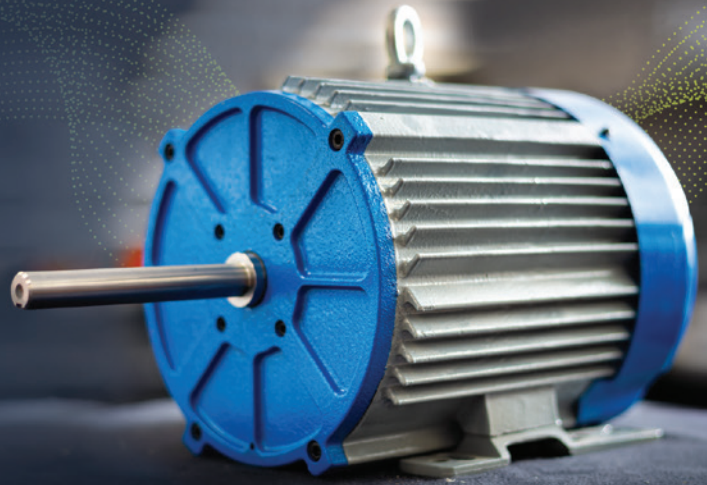




Turntide Smart Motor System™

- + More efficient
- + More intelligent
- + Ultra reliable
- + Simple drop-in solution
- + Standard NEMA dimensions
- + No rare earth materials



Reduce HVAC energy usage by an average of

64%

with Turntide's Smart Motor System

Optimizing your HVAC efficiency is a high-impact energy conservation measure that delivers immediate and long-term savings

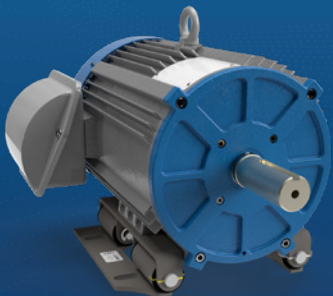
40% of energy used in commercial buildings is from HVAC equipment

30%+ of the energy that goes into powering HVAC is wasted in the average commercial building, according to the U.S Department of Energy

Source: U.S. Department of Energy

What is the Smart Motor System?

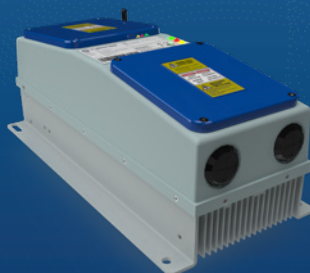
Advanced device physics and intelligence come together in a Smart Motor System that optimizes your HVAC energy usage



Motor

Our patented high rotor pole switched reluctance motor with advanced device physics runs more efficiently and reliably.

Available for 1-15 HP



Motor Controller

The controller helps the variable-speed motor work at optimized efficiency across a broad range of speeds, control customized sequences of operation or application-specific functionality, and protect the system from damage or failure.



Turntide BOS

With Turntide BOS, your Turntide energy conservation measure can be managed from your fingertips. Turntide BOS makes your motor data visible to you in one secure dashboard view - no matter where you are, anytime.

Note: To access Turntide BOS you must install a Turntide Remote Monitoring Kit (RMK).

The Smart Motor System

13%

The ultimate energy conservation measure

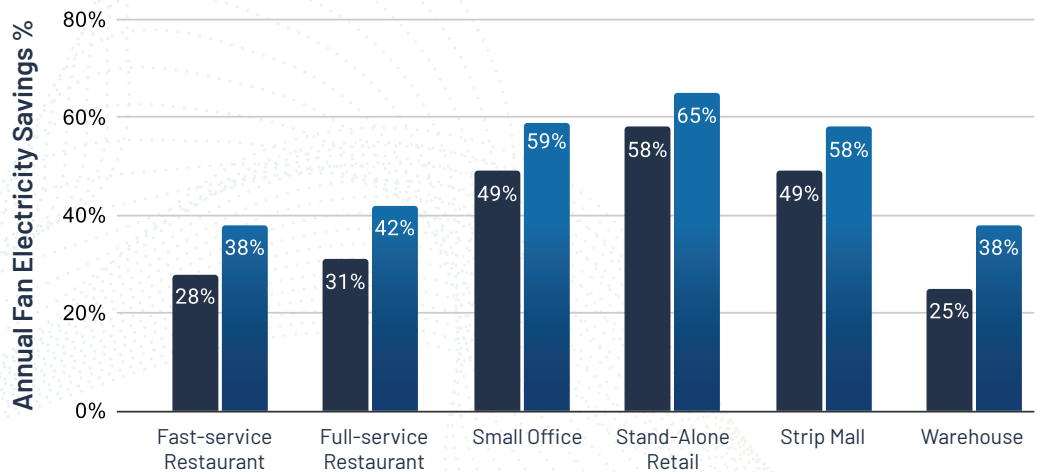
The Smart Motor System provides an HVAC setup that is more efficient, more intelligent, ultra reliable, and simple.

Better performance
than VFD retrofit

Source: NREL Study

The Smart Motor System Outperforms VFD

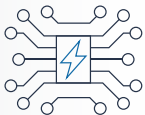
Annual Fan Electricity Savings from Motor Retrofit



■ NEMA Premium Induction Motor with VFD
■ Turntide Smart Motor

[View NREL study](#) →

Source: NREL Study



More Efficient

Highly Efficient Design

Minimal energy loss due to optimal rotor/stator design and control strategies over conventional switched reluctance motors

Highly Versatile

Software ensures optimal efficiency across a range of loads and speeds



More Intelligent

24/7 Runtime Monitoring

Continuous monitoring of motor conditions, such as speed and torque, helps to identify potential fault conditions; as well as unlock insights to optimize the motor performance and aid in the efficiency of your HVAC system



Ultra Reliable

Reduced Failure Modes

Bobbin stator coil design with uniform windings reduce failures in comparison to induction motors by 10%

Optimized for Multispeed

With all Turntide components designed to work together, it works as reliably at higher and lower speeds



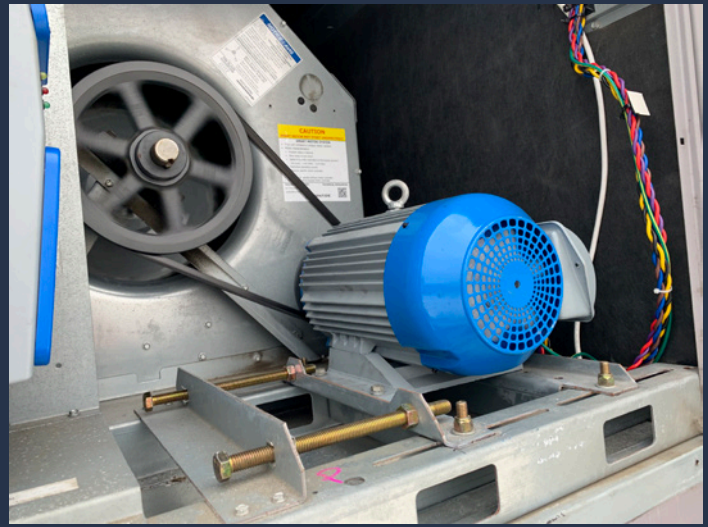
Simple

Hassle-Free Install

Retrofits and installations performed by experts from Turntide or our network of trusted partners

Proactive Insights

Built-in fault detection and alerts enable preventative maintenance



Proven Results



Grocery store Sprouts

75%

Annual HVAC Energy Reduction

[View case study](#) ➔



Retailer Wilko

60%

Total Energy Reduction

[View case study](#) ➔



Auto manufacturing plant

75%

Annual HVAC Energy Reduction

Want to learn more?

Visit our website
turntide.com

Talk to our team sales@turntide.com

Read our [Quick Reference Guide](#)

TURNTIDE TECHNOLOGY FOR SUSTAINABLE OPERATIONS

Our breakthrough technologies accelerate electrification and sustainable operations for energy-intensive industries.

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