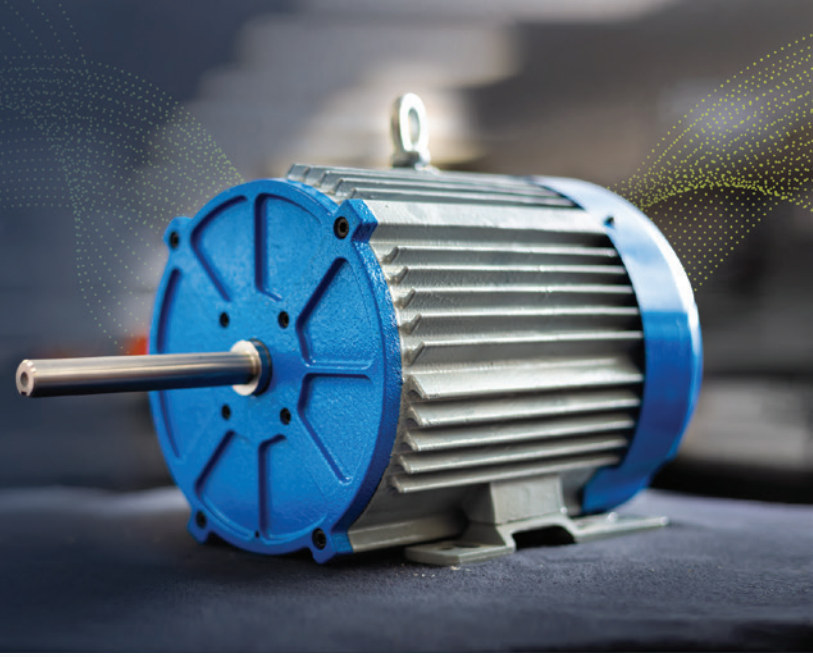
TURNTIDE®

# 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?

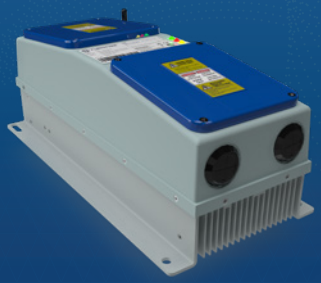
**Advanced device physics and intelligence come together in a Smart Motor System that optimizes your HVAC energy usage**



### 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 Technician

With just your smartphone in hand, Turntide Technician provides everything you need to interface with Turntide motors when you're on a rooftop. Turntide Technician makes evaluating, commissioning, and installing Turntide Smart Motor System energy conservation measure(ECM) projects easy.

# The Smart Motor System

## The ultimate energy conservation measure

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

**13%**

Better performance than VFD retrofit

Source: NREL Study

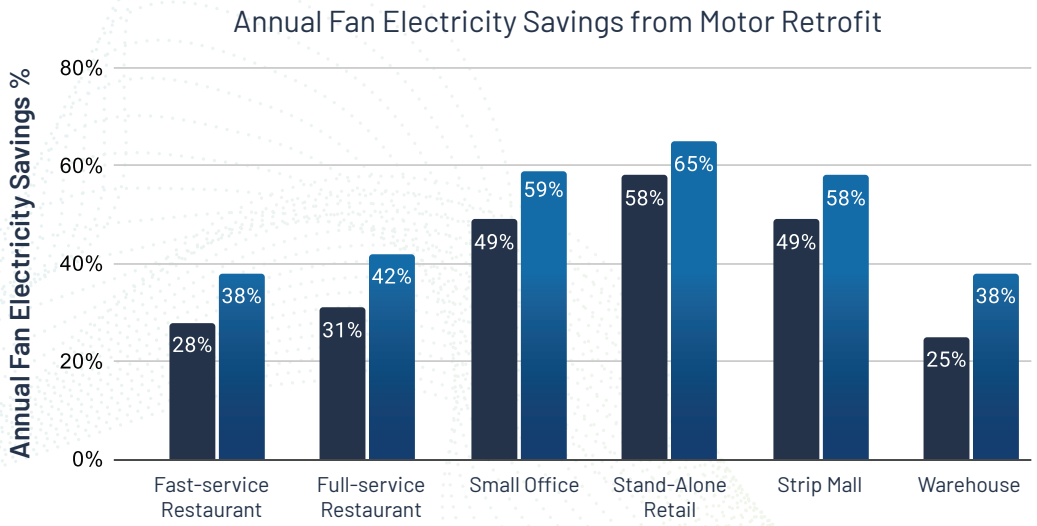
## The Smart Motor System Outperforms VFD

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

Control schemes ensures optimal efficiency across a range of loads and speeds

## Simple

### Hassle-Free Install

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

### Access

Optimize energy savings on the fly and identify motor or system performance anomalies within the Turntide Technician mobile app

## 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





## 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

**TURNTIDE TECHNOLOGIES**

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