

# Electric selectable reverse one-way clutch

Electromagnetically actuated clutch reduces CO<sub>2</sub> by limiting parasitic drag associated with traditional large-diameter wet friction clutch packs.



## Features and Specifications

- Electromagnetically actuated selectable strut mechanism provides lock in one direction (CW), working in combination with a mechanical one way clutch for the (CCW) direction
- Low current draw: 1.5A actuation, <1.0A continuous hold
- Integrated electronics - High Side Failsafe Switch integrated into clutch module
- On demand rapid actuation speed <100ms

## Competitive advantage/differentiators

- Replaces existing Low/Reverse Wet Friction Clutch in Automatic Transmissions
- Fits entirely within transmission case splines including electronics
- Unique Actuation Mechanism

## Applications/benefits

- 5-10% parasitic drag reduction over entire speed range (measured in unloaded 6spd FWD Automatic)
- No hydraulic circuits – simplifies transmission architecture

SOP

Ideation

Discovery

Concept

Development

Serial Preparation

in Production