

eDS – electric Drive System Mid

High-voltage complementary eDrive system for electric AWD. Power range from 100 kW to 140 kW, optimized for 800 V.



Features and Specifications

- | | |
|-----------------------|-----------------|
| • Peak axle power: | 100 kW for 20 s |
| • Peak axle torque: | 2,000 Nm |
| • Cont. power: | 35 kW |
| • Output speed: | 1,650 rpm |
| • Weight: | < 72 kg |
| • Functional feature: | Decoupling |

Values valid for voltage level: 640 V

Competitive advantage/differentiators

- **Efficiency**
Highly-efficient inverter with SiC technology
Lowest drag losses by new decoupling system
- **Safety & dynamics**
Enabling longitudinal torque vectoring
- **Package & weight**
New differential-integrated decoupling system
Very compact high-speed e-motor
- **Sustainability**
Carbon-free manufacturing in EU plants
Reduced usage of heavy rare earth content

Applications/benefits

- Battery electric vehicles
- C,D, E segment vehicles
- Secondary propulsion
- Boost & regeneration modes

SOP

Ideation

Discovery

Concept

Development

Serial Preparation

in Production