

VEDS 1.5

Electric Drive System



Best-in-class efficiency

With the new VEDS 1.5 electric drive system, we have introduced numerous groundbreaking advancements that accommodate and fully comply with all current requirements for modern electrical mobility applications. These will ensure that we remain best in class for efficiency going forward. The VEDS 1.5 can be configured according to application and customer requirements and comes in a small scope (basic) or extended scope variant.

At the heart of these developments is the new platform with DIS (drive inverter system) and integrated DMU (drive management unit). This platform satisfies all common automotive cybersecurity standards based on ISO 21434. Other new features include the automotive-compliant connector system for faster installation and simpler maintenance and the smaller and lighter design of the modular drive system. This means that peak outputs of up to 390 kW can be achieved without compromising efficiency.

The key advantages of the VEDS 1.5

- Available in small scope (basic) or extended scope configurations
- New platform with DIS (drive inverter system) and integrated DMU (drive management unit)
- Meets automotive cybersecurity standards
- Based on ISO 21434
- Automotive-compliant connector system

VEDS 1.5

Technical data



HD motor

- 390 kW max. output
- 320 kW continuous output (30 minutes)
- 3,100 Nm max. torque
- 3,800 rpm max. speed

MD motor

- 255 kW max. output
- 240 kW continuous output (30 minutes)
- 2,850 Nm max. torque
- 2,500 rpm max. speed
(2,850 rpm at operating temperature)

Up to

20%

lower energy consumption
than our competitors

Up to

390 kW

peak output

Up to

3,100 Nm

torque with heavy-duty (HD) motor

