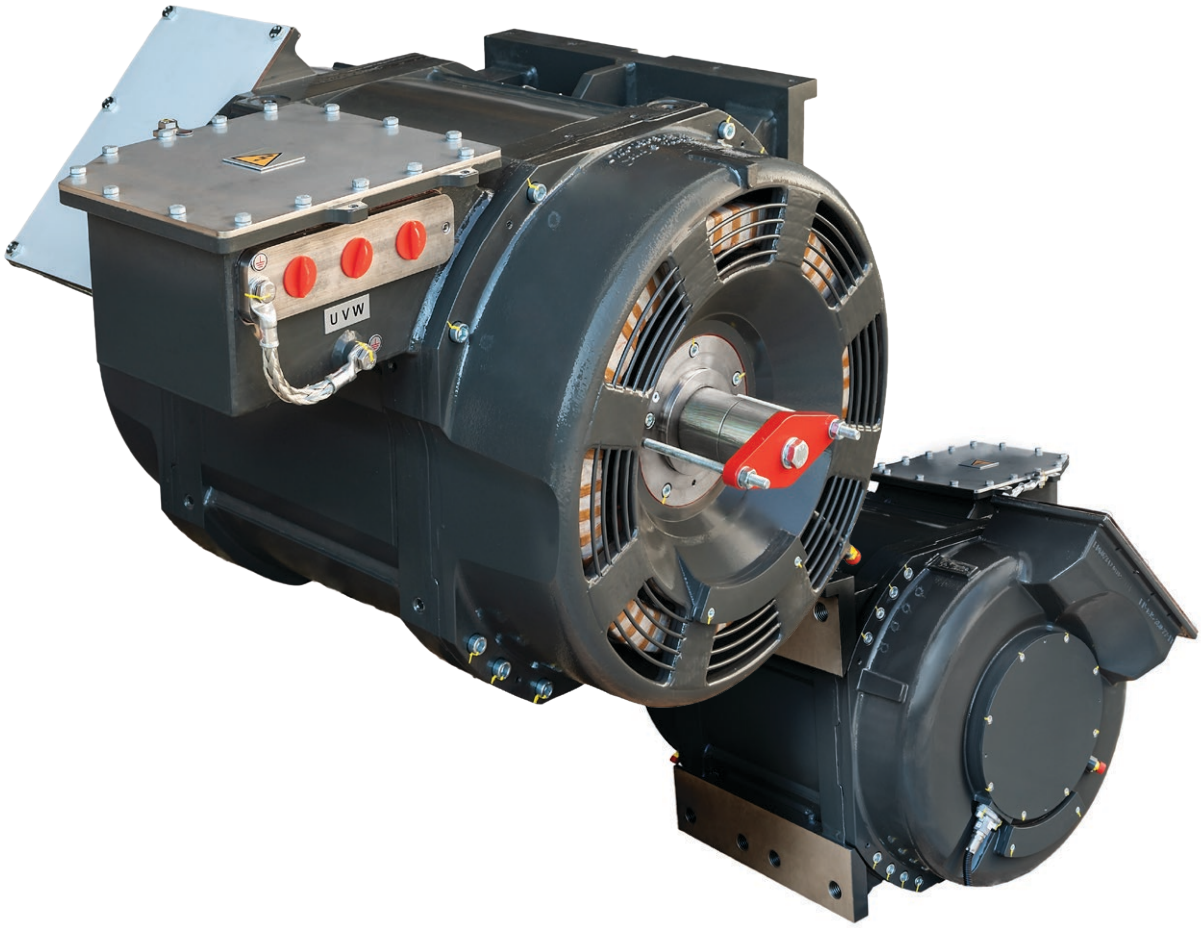
TRACTION MOTOR FOR BATTERY
ELECTRICAL MULTIPLE UNIT (BEMU)



DESCRIPTION

The traction motor is designed as open, four-pole asynchronous machine with squirrel cage rotor, air cooled.

Welded, double bearing design takes into account the requirements of achieving maximum power, low weight and high efficiency in relation to the specified space.

Cooling of the motor is realized by forced ventilation. Ventilation path through the motor is optimized to achieve maximum cooling capacity including maximum power.

The traction motor is used as an individual axle drive together with the coupling and gearbox. The traction motor is directly connected to the bogie frame. The connection to the gearbox is realized using a toothed coupling. The torque is transmitted to the axle through the gearbox.

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PRODUCT HIGHLIGHTS

- Created for tough work environment
- High torque capability for maximum productivity and performance
- Reliable with low through-life costs

WHY CHOOSE OUR SOLUTION?

- More than 85 years of experience
- Traction motor, traction convertors, battery boxes, I/O modules, ... from the same supplier
- Long-time experience with system integration
- Global reach including service support and diagnostic system

REFERENCE

- **More than 3000 pcs already produced**
- We deliver the traction motors to Czech Republic, Slovakia, Estonia, Bulgaria, Latvia, Ukraine, Spain, and Poland

BASIC TECHNICAL DATA

Paremetres	
Ambient temperature	-35 °C to +40 °C
Number of poles	4
Number of phases	3
Nominal power	340 kW
Nominal speed	1,660 min^{-1}
Maximum speed	4,465 min^{-1}
Efficiency	> 92.8%
Cooling system	Forced-ventilated
IP protection - terminal box	IP 68
Durability	EN 61373
Thermal class	220
Motor mass	780 kg