



ELECTRIC DOUBLE-DECKER MULTIPLE UNIT KISS

Slovenske Železnice, Slovenia

In April 2018, Stadler won a tender from Slovenske Železnice, the Slovenian state railway company which was replacing its regional fleet. They made an initial order for 26 single-decker and double-decker vehicles and in May 2019, ordered a further 26 vehicles. The order comprises ten double-decker KISS multiple units, intended for use within Slovenia. The three-car regional trains belong to the acclaimed KISS family and have already been manufactured for several operators with a wide range of specifications and differing network characteristics. KISS for Slovenske Železnice meets the latest technical specification for interoperability including legislation for people with disabilities. The low floor design allows for level boarding at every passenger compartment external door. This means that passengers can get on and off more easily and that dwell time is reduced. The multiple unit has 292 seats, 16 of which are in first class, as well as standing capacity for a further 277 passengers and two wheelchair bays. There is space for ten bicycles in two multifunctional zones. The vehicles are fully air-conditioned and feature a wheelchair-accessible toilet, a modern passenger information system and wifi.

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Technical features

Technology

- 3 kV DC
- Maximum speed of 160 km/h
- Welded car body structure made of extruded aluminium profiles
- Front cab made of glass-reinforced plastic
- High tractive efforts and acceleration

Comfort

- Low-floor area and step-free access to improve passenger flow
- Bright, passenger-friendly interior with customer-specific design
- Air-conditioned passenger compartments and driver's cabs
- Vacuum toilet system, also suitable for passengers with reduced mobility
- Multifunctional zones and cycle compartments
- WLAN internet access

Personnel

- Ergonomically designed driver's desk
- Thermo pocket in the driver's cab
- Conductor compartment

Reliability / Availability / Maintainability / Safety

- Redundant powertrain
- Easy access for maintenance
- Vehicle control system with train bus and diagnostics computer (CAN open bus)
- ETCS and PZB safety technology

Vehicle data

Customer	Slovenske Železnice
Operated networks	Slovenia
Track Gauge	1435 mm
Designation	KISS
Supply voltage	3 kV DC
Axle arrangement	2'Bo'+2'2'+Bo'2'
Number of vehicles	10
Commissioning	2020
Seats	292
1st class	16
2nd class	256
Tip-up seats	20
Wheelchair bays	2
Standing capacity	277
Floor height	
Low-floor	440 mm
High-floor	1350 mm
Entrance width	1300 mm
Axial thrust	1500 kN
Length over coupler	79840 mm
Vehicle width	2800 mm
Vehicle height	4630 mm
Bogie wheelbase	
Motor bogie	2500 mm
Jacobs bogie	2500 mm
Driving wheel diameter, new	920 mm
Carrying wheel diameter, new	920 mm
Max. power	3000 kW
Max. tractive effort	200k N
Starting acceleration	1.3 m/s ²
Maximum speed	160 km/h