

Technical Data High Speed Diesel-Electric Tilting Train VT605



Complete Vehicle

Total number of seats:	195 + 1 wheelchair space
Seats in 1st class:	41
Seats in 2nd class:	154 (including parent-child compartment)
Laden weight:	232 t
Max. wheel set load:	14.5 t
Max. speed:	200 km/h
Length over coupler, end coach:	27,450 mm
Length over coupler, middle coach:	25,900 mm
Length over coupler, total:	106,700 mm
Width:	2,850 mm
Total height above rail level:	4,205 mm (to upper edge of braking resistor)
Floor height above rail level:	1,250 mm
Doors per multiple unit side:	5
Clear door opening:	900 mm, except for 605.2-WE2: 800 mm

Bogies/Chassis

Wheel set arrangement:	2'Bo'+Bo'2'+2'Bo'+Bo'2'
Bogie wheelbase:	2,600 mm
Distance between bogie pivots:	19,000 mm
New/worn wheel diam.:	860 mm / 805 mm

Combustion Engine

Manufacturer:	Cummins
Output:	560 kW with 1,800 rpm
Max. torque:	3,084 Nm at 1,350 rpm

Generator

Voltage:	3x 460 V AC - 1,400 V AC
Max. output:	560 kVA at 1,800 rpm
Cooling:	self-ventilated

Drive

Type of drive motor:	three-phase asynchronous
Continuous output of drive motor:	250 kW
Max. speed of drive motor:	4,215 rpm
Cooling of drive motor:	self-ventilated
Ratio of gear:	1 : 3.276

Drive System

Main rectifier, input:	3x AC 460 V – 1400 V
Main rectifier, output:	DC 600 V – DC1 800 V
Traction inverter, system:	GTO
Traction inverter, DC input:	600 V DC - 1,800 V DC
Traction inverter, AC output:	3x 0 V AC - 1,400 V AC
Traction inverter, Cooling:	water / Antifrogen

Electrical Equipment

Control electronics:	SIBAS [®] 32
On-board train power system:	110 V DC
On-board battery:	110 V
Number of on-board batteries:	2 per multiple unit
On-board battery capacity:	110 Ah
Starter battery:	24 V
Starter battery capacity:	190 Ah
Number of starter batteries:	4 per multiple unit
Charger output:	6 kW
External voltage connection:	1000 V AC, 16.7 Hz / 50 Hz
Workshop supply:	3x 400 V AC, 50 Hz