

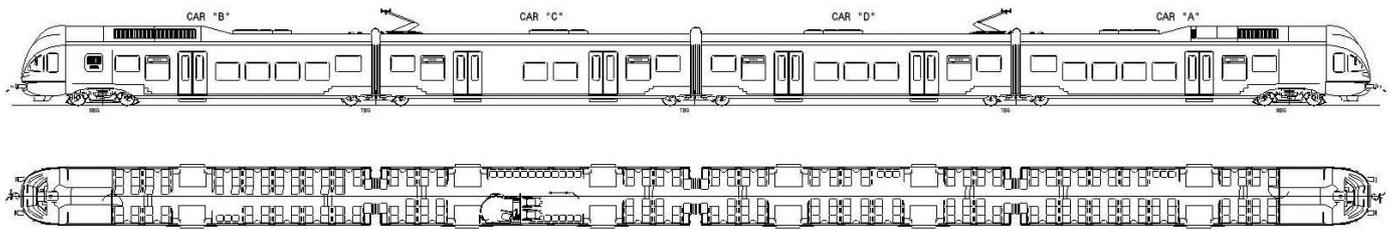


## **Electric low-floor multiple unit FLIRT for Belarusian Railways, Belarus**

The Belarusian railways has ordered from Stadler Bussnang AG 6 four-car trains (EMU's) for the urban and suburban traffic of Minsk with platform height in stations of 550mm and 200mm. Stadler's FLIRT for Belarus is based on the FLIRT Helsinki, which have been especially designed for the Nordic climatic conditions down to -40°C. The FLIRT Belarus has been adjusted for the Belarusian railways mainly in the following points: train safety system and train radio, additional sliding steps for platform height 200 mm, adaptation to the Belarusian gauge (1520mm), catenary and the Belarusian operating regulations.

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## Technical features

- Bright, passenger-friendly interior with customized design
- Excellent visibility through the whole passenger area
- Low-floor section > 70 %
- Passenger information system
- Spacious multipurpose area in entrance section
- 6 doors on each side for fast entry and exit of passengers
- Air-conditioned passenger and driver compartments
- Vacuum toilet system, also suitable for people with reduced mobility
- Ergonomically designed driver's desk
- Glass fiber reinforced plastic front cabin
- Automatic coupler
- Welded car body structure with extruded aluminum profiles
- Air-suspended bogies
- Redundant traction chain with 4 water-cooled IGBT power converters
- Vehicle control system with train bus, vehicle bus and diagnostic computer
- Video surveillance
- Multiple-traction up to three trains

## Vehicle data

Customer	Belarusian Railways
Lines operated	Minsk district
Gauge	1520 mm
Catenary voltage	25 kV, 50 Hz
Axle arrangement	Bo' 2'2'2' Bo'
Number of trains	6
Service start-up	2011
Seating capacity	232
Fold-up seats	28
Standing capacity (4 Pers./m <sup>2</sup> )	346 (accord. to DIN 25008)
Floor height	
Low floor	600 mm
High floor	1120 mm
Door width	1300 mm
Longitudinal strength	1500 kN
Overall length	75 200 mm
Vehicle width	3200 mm
Vehicle height	4400 mm
Tare weight	132 t
Bogie wheelbase	
Motor bogie	2700 mm
Trailer bogie	2750 mm
Powered wheel diameter (new)	860 mm
Trailer wheel diameter (new)	800 mm
Continuous power at wheel	2000 kW
Maximum power at wheel	2600 kW
Starting tractive effort	200 kN
(up to 47 km/h)	
Max. acceleration (full load)	1.2 m/s <sup>2</sup>
Service speed	160 km/h

