



ELECTRIC MULTIPLE UNIT – FLIRT

Greater Anglia, UK

Greater Anglia has been awarded with the East Anglia franchise which will oversee a large investment into local rail services, including a planned order for 58 FLIRT bi-mode and electric multiple-unit trains which will operate on various railway lines in East Anglia. The order for the EMU fleet is based on 10 twelve-car FLIRT EMU with Intercity interior arrangement and 10 twelve-car FLIRT EMU with Airport-express arrangement. The FLIRT developed for Greater Anglia is a member of the service proven FLIRT family, which was built for several different service operators in various mission profiles and will be adapted for the UK infrastructure and the Abellio UK requirements. The FLIRT for Greater Anglia complies with the new technical specifications for interoperability including the legislation for persons with reduced mobility. Its low floor design enables a level boarding at every passenger door and therefore optimises the passenger flow and minimises the dwell times. The trains are equipped with air-conditioning, multifunctional zones with bike compartments, modern passenger information systems and Wi-Fi internet connection. Comfortable first class seats and a catering bistro are foreseen for the Intercity units. The new trains will commence commercial service in 2019.

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Technical features

Technology

- 25KV/50Hz AC power supply
- Welded car body structure with extruded aluminium profiles
- Glass fiber reinforced plastic front cabin
- Air-suspended motor-, trailer- and Jakobs-bogies
- High tractive efforts and accelerations

Comfort

- Low floor and gap-free entrance for improved passenger flow
- Bright, passenger-friendly interior with customized design
- Air-conditioned passenger and driver compartments
- Controlled emission toilets, also suitable for PRM passengers
- Multifunctional zones with bike compartments
- Video surveillance
- Wi-Fi internet access
- Comfortable first class seats and catering bistro in Inter-City units

Personnel

- Separate entrance for drivers
- Ergonomically designed driver's desk

Reliability/Availability/Maintainability/Safety

- Redundant traction chain with water-cooled IGBT power converters
- Easy access for maintenance
- Prepared for ETCS installation
- Vehicle control system with train bus and diagnostics computer (CAN-open bus)

Vehicle data

	EMU12-car Inter-City	EMU12-car Airport Express
Customer	Greater Anglia	Greater Anglia
Number of trains	10	10
Area serviced	East Anglia	East Anglia
Commissioning	2019	2019
Gauge	1435 mm	1435 mm
Designation	EMU12 IC	EMU12 Air
Supply Voltage	25kV/ 50Hz	
Axle arrangement	Bo'2'2'+2'2'2'+2'2' Bo'+Bo'2'2'+2'2'2' +2'2'Bo'	Bo'2'2'+2'2'2'+2'2' Bo'+Bo'2'2'+2'2'2' +2'2'Bo'
Standard class seats	624	722
First class seats	80	0
Tip-up seat	53	45
Toilets	5	5
Floor height, low-floor	960 mm	960 mm
Entrance width	1300 mm	1300 mm
Length over coupling	236 600 mm	236 600 mm
Vehicle width	2720 mm	2720 mm
Bogie wheelbase	2700 mm	2700 mm
Wheel diameter motor bogie	870 mm	870 mm
Wheel diameter trailer bogie	760 mm	760 mm
Max. el. Power at wheel	5200 kW	5200 kW
Max. traction / e.d. braking	400 kN	400 kN
Mean acc. electric 0–40 mph	0.9 m/s ²	0.9 m/s ²
Mean acc. diesel 0–40 mph	–	–
Maximum speed	100 mph	100 mph