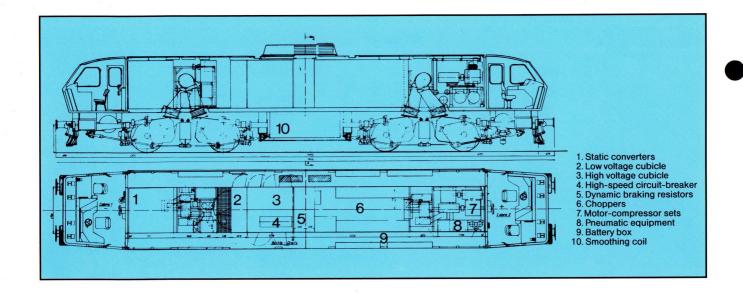


Main Line Electric Locomotive Type 11

Dual-voltage locomotive for both freight and passenger rapid transit





MAIN CHARACTERISTICS

- Track gauge : 1,435 mm - Half-worn wheel diameter
- Axle arrangement : BoBo - Gear ratio
- Number of traction motors : 4 - Rated voltage
- Total tare weight : 84 T - Clearance

1.5 kV: 2,600 A

One-hour rating Continuous rating 3.125 kW - Power (acc. to IEC) : 3.310 kW - Rated speed : 71.8 km/h 73.5 km/h 149.2 kN - Tractive effort at wheels : 161.8 kN 234 kN - Maximum starting effort - Effort at 160 km/h 44 kN 3 kV: 1,300 A - Maximum catenary current

TECHNICAL FEATURES Dual-voltage locomotive

- The locomotive type 11 makes the link between Belgium and The Netherlands.
- It is able to operate with a line voltage of 3 kV or 1.5 kV d.c.

Traction

demand

- Maximal adhesion due to transmission of the tractive effort via a low-slung traction link.
- Tractive effort and speed regulation by means of thyristor choppers.
- Reduced force between wheels and track through use of fully suspended motors and elastic lateral suspension of axles.

Braking

Dynamic braking electronically coupled with pneumatic breaking.

Aluminium

Non-load-bearing parts such as doors, partitions, facings and roofing are made of extruded aluminium

: 1,215 mm

: 1:3.742 : 3 kV - 1.5 kV d.c.

: UIC 505

Modularity

The modular design of the cabs and of the electric and pneumatic equipments located in the body reduces maintenance time.

The integrated pneumatic panel allows units to be fitted and removed without interfering with piping.

Driver safety and comfort

Ensured by: shock absorber, ergonomic driving position, heating and ventilation with air renewal, bogie suspension.