

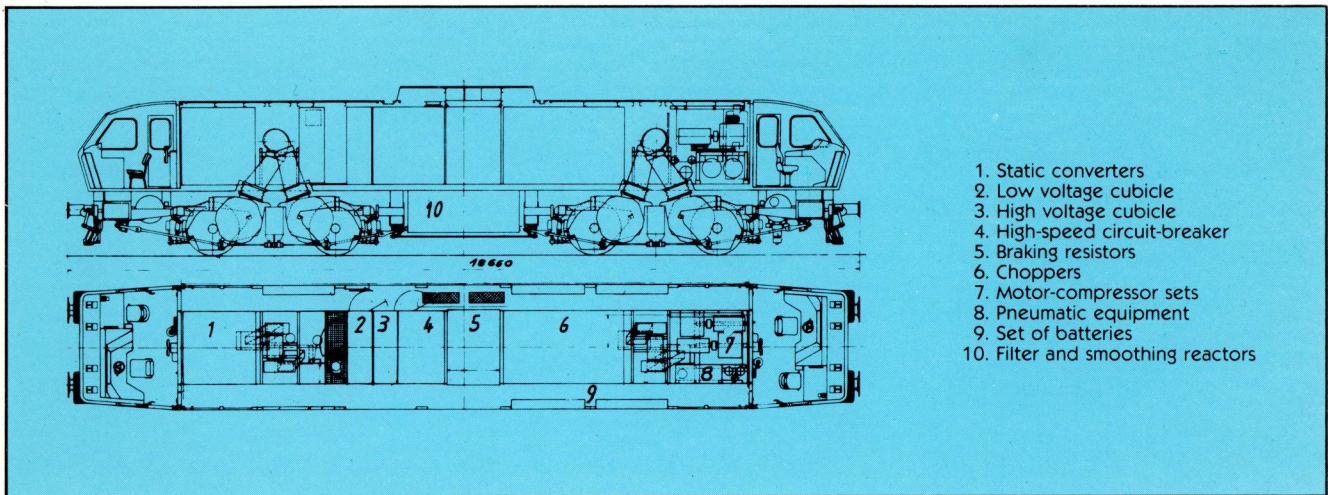


CONSTRUCTIONS FERROVIAIRES ET METALLIQUES BELGIQUE
SPOORWEGMATERIEEL EN METAALCONSTRUCTIES BELGIE

Main line Electric Locomotive type 27

For both passenger and freight heavy rapid transit





- 1. Static converters
- 2. Low voltage cubicle
- 3. High voltage cubicle
- 4. High-speed circuit-breaker
- 5. Braking resistors
- 6. Choppers
- 7. Motor-compressor sets
- 8. Pneumatic equipment
- 9. Set of batteries
- 10. Filter and smoothing reactors

PRINCIPAL CHARACTERISTICS

- Track gauge : 1,435 mm
- Axle layout : BoBo
- Number of traction motors: 4
- Total tare weight : 85 tonnes
- Total full-load weight : 85 tonnes
- Maximum speed : 160 km/h (200)
- Half-worn wheel diameter: 1,215 mm
- Gear ratio : 1 : 2.829
- Rated voltage : 3kV
- Gauge : UIC 505
- Year of manufacture : 1981

	One-hour rating	Continuous rating
- Power (acc. to IEC)	: 4,380 kW	4,180 kW
- Rated speed	: 88.6 km/h	88.2 km/h
- Tractive effort at wheels	: 177.5 kN	166.3 kN
- Maximum starting effort	: 234 kN	
- Effort at 160 km/h	: 78 kN	
- Maximum catenary current demand	: 1,700 A	

TECHNICAL FEATURES

Electrical and traction equipment

- Maximum adhesion due to transmission of the traction effort via a low-slung traction system.
- Traction effort and speed regulation by means of thyristor choppers.
- Reduced effort between wheels and track by use of fully suspended motors and transvers adjustment device for axles.

Modularity

The modular design of the cab and of the electrical and pneumatic equipment located in the body reduces maintenance time. The integrated pneumatic board allows units to be fitted and removed without interfering with piping.

Braking: rheostatic braking electronically coupled with pneumatic braking

Driver safety and comfort

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

Aluminium

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

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<u>levering</u> :	1981	3	1984	8
	1982	26	1985	22
	1983	31 ?		30
	1984	8		
		60		

