

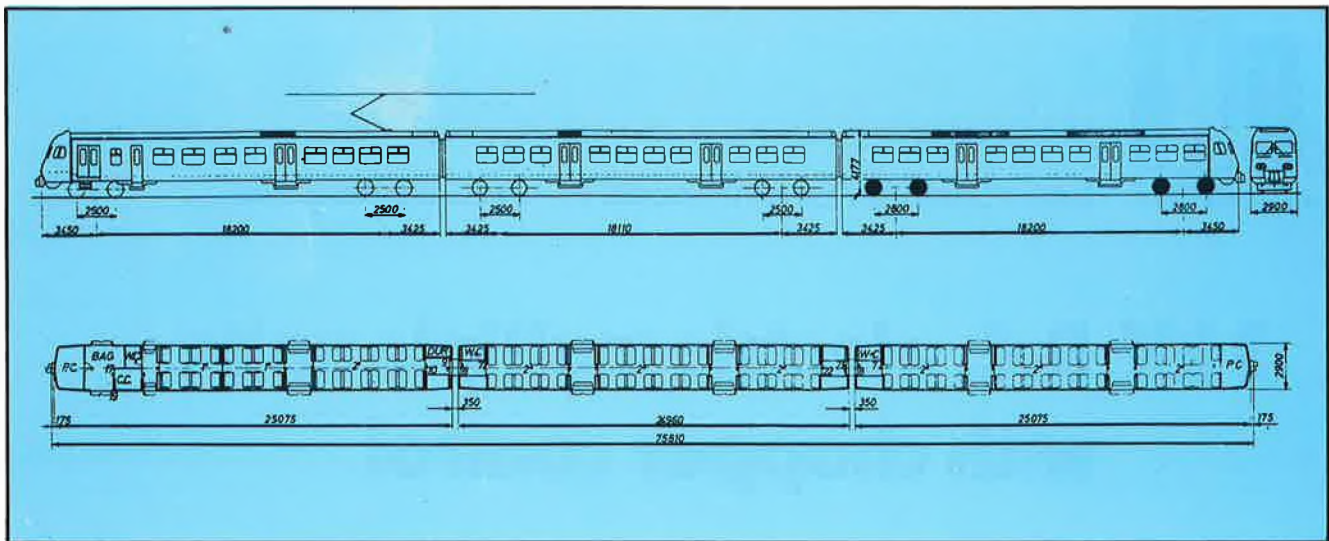


S.A. - FORMERLY LA BRUGEOISE ET NIVELLES-BELGIUM

3 kV D.C. electric multiple units with chopper control

for the Moroccan National Railways (ONCF)





Three-car traction unit designed for the ONCF

TECHNICAL CHARACTERISTICS OF THE TRACTION UNIT*

General characteristics

Track gauge	: 1.435 m
Weight, empty	: 145 T
Floor height	: 1.265 m
Length	: 75.810 m
Width	: 2.900 m
Number of seats	
1st class	: 32
2nd class	: 239
Standing passengers	
1st class	: 9
2nd class	: 75
Total passengers	: 355
Outward swinging plug doors	
Opening	: 1.260 m

Safety and comfort

Heating	
20 airrenewals/hour	
Ventilation	
40 airrenewals/hour	
Interphony system	
Automatic Train Stop	
Automatic coupler	

Performance characteristics

Max. service speed	: 160 km/h
Acceleration	: 0.53 m/s ²
Deceleration	: 0.75 m/s ²
Power	: 1,416 kW

Bogies

WEGMANN WTR type
 2 bimotor bogies
 4 trailer bogies
 Secondary pneumatic suspension

Motors

4 fully suspended motors
 Chopper control equipment for regeneration of energy.

Brake equipment

Service braking: electropneumatic
 2 disc brakes/axle
 1 shoe brake/wheel
 Emergency braking: pneumatic

* The traction unit consists of a motorized car with driving-cab, an intermediate trailer car and a trailer car with driving-cab.

Eight three-car units have been ordered by the Moroccan National Railways (ONCF). These EMU's will operate in trains of 2 traction units (6 cars) on the new electrified line linking Rabat to Casablanca at the speed of 160 km/h.