

Electric locomotive 103 109-5, DB



Epoch: IV

14+



Art. No.: 70213

Electric locomotive 103 109 of the Deutsche Bundesbahn.

- Version with short driver's cab and scissors pantographs
- Ventilation band with silver contrast areas
- In digital mode available with individually switchable headlights or tail lights
- Perfectly matches the "TEE Roland"
- Z21 driver's cab available!

The Trans-Europ-Express is named after the symbol of the city of Bremen "Roland" and it first operated as a long-distance express train on the lines between Bremen and Frankfurt. The "TEE Roland" was designed to operate for the 1969 summer timetable due to the fact that the F 46/47 was given a higher classification. At the time it was connected with the network of the SBB in Basel and its operation area as a consequence was extended to Milan. At 1,183.7 km, the train was able to cover the longest distance among all TEE trains.

Specifications:

General data

Number of axles with traction tyres	2
Number of driven axles	6
Coupling	NEM shaft 362 with close coupling mechanism
Minimum radius	358 mm
Flywheel	yes
separate etched plates	yes
Z-21 Cab	yes

Electrical

Buffer capacitor	yes
Interior lighting	Yes
Interior lighting	LED
Interior lighting	Digital switchable

Electrical

Interior lighting	Driver's cab lighting
Interior lighting	Engine room lighting
Sound	yes
Interface	Electrical interface for traction units PluX22
Head light	Two direction dependent tail lights and dual headlights.
Additional light function	yes
Motor	5-pole motor
Digital decoder	PluX22
	MX645P22
LED head light	yes

Measurements

Length over buffer	224 mm
--------------------	--------