VEHICLE TITLE

FS ETR500 LOCOMOTIVE

MASSES & INERTIAS

Number of bogies Number of axles (per bogie)	2 2.
Body mass Body roll inertia Body pitch inertia Body yaw inertia	55.98 Mg 53.366 Mgm ² 1643.0 Mgm ² 1630.0 Mgm ²
Bogie mass Bogie roll inertia Bogie pitch inertia Bogie yaw inertia	3.896 Mg 3.115 Mgm ² 5.843 Mgm ² 8.107 Mgm ²
Wheelset mass Wheelset roll and yaw inertia	2.059 Mg 1.164 Mgm ²
DIMENSIONS	
Semi pivot spacing Semi wheelbase Wheel radius Body centre of gravity height above rail level Bogie centre of gravity height above rail level	6.0 m 1.5 m 0.55 m 1.65 m 0.64 m
PRIMARY SUSPENSION	
Lateral stiffness (per axle) Vertical stiffness (per axle) Yaw stiffness (per axle)	12.0 MN/m 3.55 MN/m 15.4 MNm/r
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Lateral damper rate (per axle)

Vertical damper rate (per axle)

Vertical friction breakout (per axle)

- MNs/m

0.3 MNs/m

- KN

Height above rail level of lateral springs

Lateral semi spacing of vertical springs

Height above rail level of lateral dampers

Lateral semi spacing of vertical dampers

Lateral semi spacing of vertical friction

0.55 m

- m

1.03 m

- m