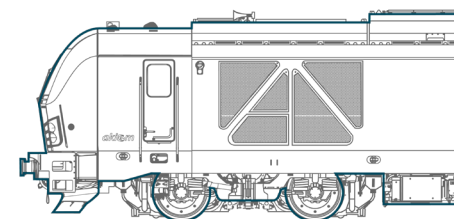
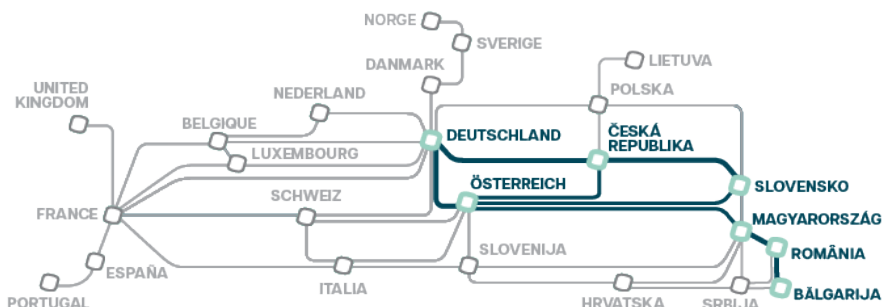


BR 248 Vectron Dual Mode

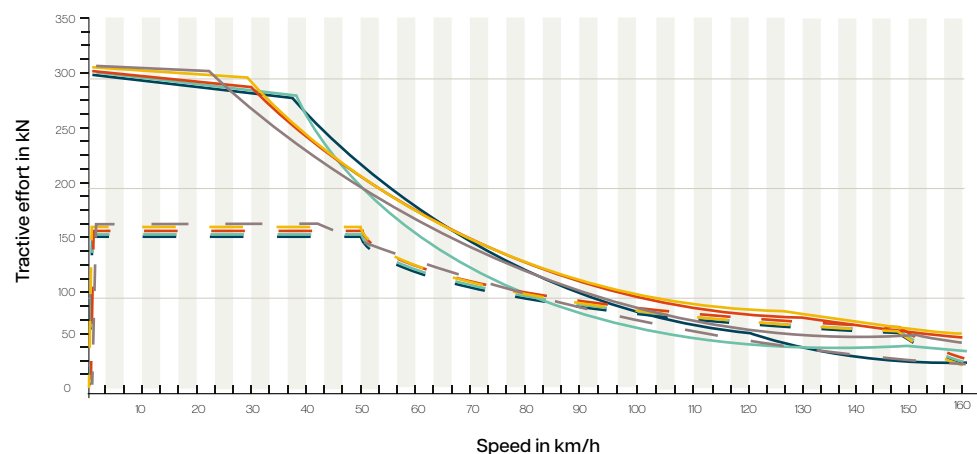
✓ Countries



✓ Main technical data

Manufacturer	Siemens Mobility
Maximum traction power at wheel rim	Electric mode: 2 400 kW Diesel mode: 2 000 kW
Maximum electric braking power at wheel rim	Electrical braking effort: 150 kN Electric mode: 2 100 kW Diesel mode: 1 700 kW
Maximum speed	160 km/h
Starting tractive effort	300 kN
Weight in working order	90 t
Wheel arrangement	Bo'Bo'
Clearance gauge	EN 15273-2:2013+A1:2016 – G2 / G1.2
Length	19,975 m
Traction motors	4 asynchronous AC traction motors
Multiple unit operation	Yes

✓ Tractive effort-speed curve



G13 Electric mode
Starting effort
2 400 kW

G13 Electric mode
Continuous
tractive effort
2 100 kW

G13 Diesel mode
Starting effort
2 000 kW

G13 Diesel mode
Continuous
tractive effort
1 700 kW

G15 Electric mode
Starting effort
15 kV AC - 2 400 kW

G15 Electric mode
Continuous
tractive effort
15 kV AC - 2 100 kW

G15 Electric mode
Starting effort
25 kV AC - 2 400 kW

G15 Electric mode
Continuous
tractive effort
25 kV AC - 2 100 kW

G15 Diesel mode
Starting effort
2 000 kW

G15 Diesel mode
Continuous
tractive effort
1 700 kW

Homologations	G13 D-A	G15 D-A-CZ-SK-HU-RO-BG
Year of construction	2026	2028
Electric power supply	15 kV AC, 16.7 Hz	15 kV AC 16.7 Hz + 25 kV AC 50 Hz
Trainline power supply	-	Electric mode: 1AC 1 000 V 16.7 Hz or 1AC 1 500 V 50 Hz Diesel mode: 1AC 1 000 V 50 Hz or 22 Hz
Fuel tank	2 600 Liters	2 000 Liters
Safety systems	ETCS Baseline 3 Release 2 v2.1, PZB90	ETCS Baseline 3 Release 2 v2.1, PZB90, LS (Mirel), EVM (Mirel)
Other equipment	Ebula	Ebula; passenger operations with TBO and ÖBB door control systems