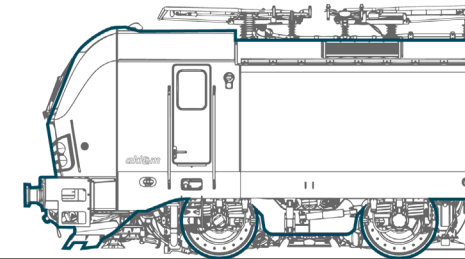
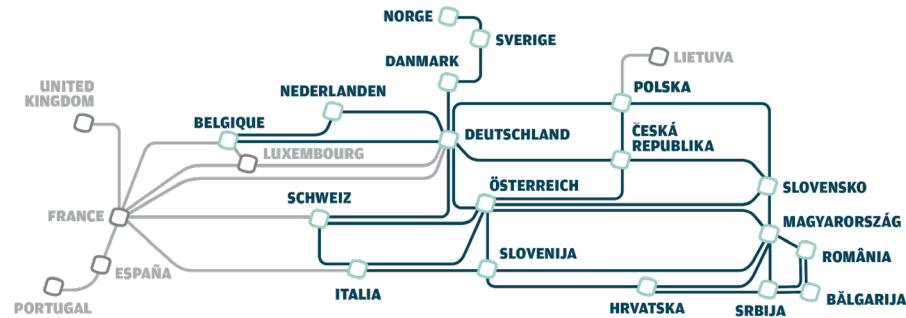


VECTRON

BR 193

✓ Countries



✓ Main technical data

Manufacturer	Siemens		
Continuos rated power	6,400 kW (15-25 kV AC)	3,500 kW (1,5 kV)	
	6,000 kW (3 kV DC)	2,600 kW (1,5 kV) Rheostatic brake	
	2,600 kW (3kV) Rheostatic braker		
Maximum speed	200 km/h		
	160 km/h		
Starting tractive effort	320 kN		
Continuous tractive effort	240 kN		
Weight in working order	90 t		
Wheel arrangement	Bo'Bo'		
Clearance gauge	UIC 505-1		
Length	18,980 m		
Traction motors	4 asynchronous motors		
Electric braking	150 kN - 240 kN		
Multiple unit operation	Oui		

Name	B 18	A 22	A 17	A 35
Homologations	D-DK-S-N	DE-AT-CH-IT-NL-(B)	DE-AT-PL-HU-CZ-SI-HR-RS-BG-RO	DE-AT-PL-HU-CZ-SK-SI-HR-RS-BG-RO-IT
Year of construction	2023-2024	2023	2023	2023
Electric power supply	15/25 kV AC	15/25 kV AC - 1,5/3 kV DC	15/25 kV AC - 3kV DC	15/25 kV AC - 3kV DC

Safety systems	ETCS (BL 3.4) Level 1 • ETCS (BL 3.4) Level 2 • PZB90 / LZB80 (CIR-ELKE I) • DK STM • ATC 2 STM (L15000)	ETCS (BL 3.4) Level 1 with Euroloop • ETCS (BL 3.4) Level 2 • PZB90 / LZB80 (CIR-ELKE I) • SCMT • ATB-EGv • TBL1+	ETCS (3.4.0) Level 1 with Euroloop • ETCS (3.4.0) Level 2 • PZB90 / LZB80 (CIR-ELKE I) • SHP • LS (Mirel) • EVM (Mirel)	ETCS (3.4.0) Level 1 with Euroloop • ETCS (3.4.0) Level 2 • PZB90 / LZB80 (CIR-ELKE I) • SHP • LS (Mirel) • EVM (Mirel)
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Other equipment	Energy meter, EBUa	Energy meter, EBUa	Energy meter, EBUa	Energy meter, EBUa
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✓ Tractive effort-speed curve

