

BASIC CONFIGURATION	Electric CoCo Type locomotive	Diesel - Electric CoCo Type locomotive	Dual Mode CoCo Type locomotive
Type of locomotive	electric; AC-DC-AC	diesel-electric; diesel-AC	dual: electric and diesel-electric; AC-DC-AC or diesel-AC
Power Supply [kV]	25 kV AC	-	25 kV AC
Diesel engine power [kW]	-	Min 2750 kW	
Traction motor power [kW]	Max 1200 kW	Max 1200 kW	Max 1200 kW
Driver's cab number [-]	2 cabs - at both ends (1x driver, 1x driver assistant)	2 cabs - at both ends (1x driver, 1x driver assistant)	2 cabs - at both ends (1x driver, 1x driver assistant)
Axles configuration	Co-Co	Co-Co	Co-Co
Gauge	EN 15273-2:2013+A1:2016; G2+G12	EN 15273-2:2013+A1:2016; G2+G12	EN 15273-2:2013+A1:2016; G2+G12
Min. Track curve [m]	150	150	150
Min. Depot curve [m]	80	80	80
Temperature range [°C]	-25°C / 45°C, EN50125	-25°C / 45°C, EN50125	-25°C / 45°C, EN50125
Max. relative humidity [%]	90% - 100%, EN50125	90% - 100%, EN50125	90% - 100%, EN50125
Max. Speed [km/h]	120	120	120
Max. Axle load [t]	22,5	22,5	22,5
Safety and Ergonomics	UIC 612 UIC 651 EN 16186	UIC 612 UIC 651 EN 16186	UIC 612 UIC 651 EN 16186
Passenger information system	n/a	n/a	n/a
Power for the Lighting and Air Conditioning Unit of Passenger Cars	800 KVA	800 KVA	800 KVA
Multi Traction Availability	Yes	Yes	Yes
Operation period [years]	30 years, avg. 300 000 km annually	30 years, avg. 300 000 km annually	30 years, avg. 300 000 km annually
Max. Traction force [kN] min.	500	500	500
Additional requirements	- TSI/EN/UIC standards system - Last Mile Module	- TSI/EN/UIC standards system	- TSI/EN/UIC standards system
adhesion coefficient @start [-] min	0,38	0,38	0,38
Vmax (km/h)	120	120	120
Adhesion force @ starting [kN]	500	500	500
Continuous tractive effort [kN] min.	350	350	350
Total power of locomotive [kW] (at wheel) min.	7350	3000	9000