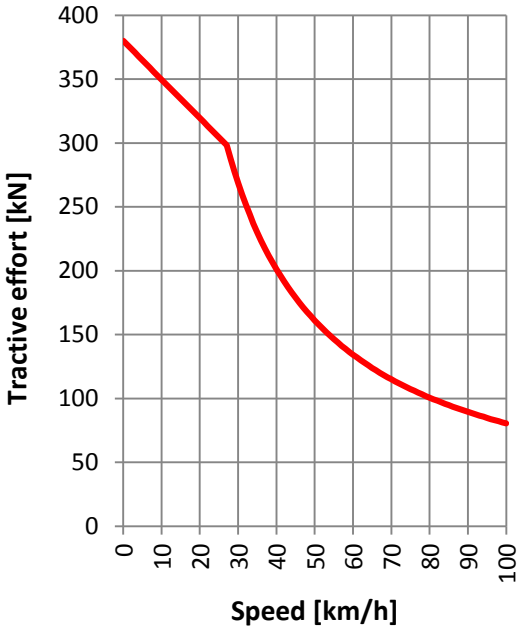
3000 Hp SCC-DC Diesel Electric Locomotive Fact Sheet

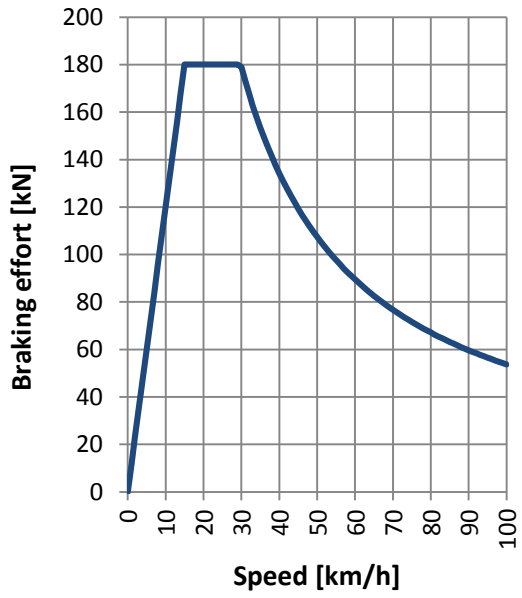
3000 THP, Single cab, Co-Co bogie, Cape gauge DC

Model	GL30SCC-DC
Power	2461 kW gross (3300 hp) 2240 kW traction (3000 hp)
Tractive effort – Continuous	300 kN @ 25 km/h
Tractive effort – Starting	380 kN
Dynamic Braking effort	180 kN
Rail gauge	1067 mm (Cape gauge)
Total mass	108 metric tonnes (variance <3%)
Axle load	18 metric tonnes (variance <3%)
Wheel arrangement	Co-Co
Maximum speed	90 km/h
Gear ratio	94:17
Wheel diameter	914 mm (36”)
Fuel capacity	Up to 7000 litres
Dimensions Length coupler to coupler Height over rail level Width maximum	 20300 mm 3950 mm 2850 mm
Engine	EMD 16-645 E3B
Main/comp. generator	EMD AR10 D14
Aux generator	18 kW (74 VDC)
Traction motors	6 X 761A23
Air compressor	Garden Denver Exhauster (WLP)
Brakes – air & vac	Electro pneumatic brake system (CCBII)
Cooling system	3x1220mm (48”) single speed AC fans 2 core 6 row Touchstone radiators
Drivers control	Right hand multiple unit
Cab	Single cab
Standard features	Air conditioning and heating Collision protection Microprocessor control system (NForce) Event Recorder (Quantum) HVC with pressurised filtered air Casted bolster-less bogies Fridge Hotplate Individual traction motor cut-out Provision for radio system Thermal and acoustic insulation in cab 2 X 32V starter motors (in series) 4 units in multiple
Optional features	Control and monitoring connectivity Fuel consumption measuring Slow speed loading Toilet (Porta Potty) USB 12V / 24V power outlets G-Track Control system

Tractive effort vs Speed



Dynamic brake effort vs Speed



Model of GL30SCC-3