

TECHNICAL SPECIFICATIONS

2ES10



Туре	Freight	Freight
Voltage	DC	DC
Traction Motor Suspension Type	Nose-suspended	Nose-suspended
Pantograph Rated Voltage, kV	3	3
Track Gauge, mm	1,520	1,520
Axle Arrangement	2(Bo'Bo')	3(Bo'Bo')
Design Speed, km/h	120	120
Axle Load (static), kN	245	245
Adhesive Weight at 0.7 Sand Capacity, t	200 ± 2	300 ± 2
Maximum Shaft Power, kW	8,800	13,200
Max. Starting Tractive Effort, kN	784	1,176
Continuous Shaft Power, kW	8,400	12,600
Continuous Tractive Effort at 55 km/h, kN	538	807
Continuous Tractive Effort at 80 km/h, kN	370	555
Max. Tractive Effort at 120 km/h, kN	236	354
Regenerative Braking Shaft Power, kW	8,400	12,600
Braking Power. Electric Dynamic Brake, kW	5,600	8,400
New Wheel Tread Diameter, mm	1,250	1,250
Service Life, years	40	40

POWER AND RELIABILITY FROM THE URALS FOR YOUR NEEDS

- The 2ES10 dual-section freight DC locomotive can haul 9,000 t. trains on gradients of up to 6 ‰ and 6,300 t. trains on gradients of up to 10 ‰.
- The 2ES10 Booster Section has been designed to haul extra heavy trains on steep gradients.
- SIEMENS-supplied asynchronous traction drive with axle-specific torque control with IGBT-based traction converters for higher torque.
- MPSUID microprocessor-based control system with automated train driving, diagnostics, data transmission via radio communication channels, data recording, and GPS/GLONASS tracking.
- Advanced BLOC safety system ensuring the safest driving.
- Multiple-unit/single-section operation.
- The new improved modular-type driver cab.

SAVING YOUR TIME AND COSTS

- High maintainability thanks to to modular equipment arrangement
- Maintenance intervals increased fivefold*
- Specific energy consumption for train traction reduced by 8 10 %*
 - * compared to electric locomotives fitted with commutator traction motors

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