



**Ural
Locomotives**

СІНАРА

SIEMENS

**QUALITY
FROM
THE HEART
OF RUSSIA**



CLASS
2ES7
FREIGHT AC
LOCOMOTIVE

ULKM.RU

Type	Freight
Voltage	AC
Traction Motor Suspension Type	Nose-suspended
Pantograph Rated Voltage, kV	25
Track Gauge, mm	1,520
Axle Arrangement	2(Bo'Bo')
Design Speed, km/h	120
Axle Load (static), kN	245
Adhesive Weight at 0.7 Sand Capacity, t	200 ± 2
Maximum Shaft Power, kW	8,800
Max. Starting Tractive Effort, kN	784
Continuous Shaft Power, kW	8,400
Continuous Tractive Effort at 55 km/h, kN	538
Continuous Tractive Effort at 80 km/h, kN	370
Max. Tractive Effort at 120 km/h, kN	247
Regenerative Braking Shaft Power, kW	8,400
Power Factor under Load in Excess of 25 % in Continuous Mode	>0,95
New Wheel Tread Diameter, mm	1,250
Service Life, years	40

POWER AND RELIABILITY FROM THE URALS FOR YOUR NEEDS

- The 2ES7 dual-section freight AC locomotive has a certified capability of hauling 9,000 t. trains on a maximum grade of up to 8.2 ‰.
- SIEMENS-supplied asynchronous traction drive with axle-specific torque control with IGBT-based traction converters for higher torque.
- On-board GPS/GLONASS positioning equipment and digital communication for remote status tracking.
- Highly reliable and versatile Russian-made upper-level control system for easy performance algorithm adjustment as may be requested by Customer.
- Advanced BLOC safety system ensuring the safest driving.
- Energy-saving traction motor control mode depending on train weight and track profile.
- Designed to haul increased-length extra heavy trains.
- Multiple-unit operation.

SAVING YOUR TIME AND COSTS

- High maintainability thanks to modular equipment arrangement
- Maintenance intervals increased fivefold*
- Specific energy consumption for train traction reduced by 15 - 20 %*

* compared to electric locomotives fitted with commutator traction motor

URAL LOCOMOTIVES LLC

36 Parkovaya St., Verkhnyaya Pyshma
624090, Sverdlovsk Region, Russia
phone: +7 (343) 379 41 59; fax: +7 (343) 379 41 09
mail@ulkm.ru
ulkm.ru

