

**TRACTION ELECTRIC MOTOR EDP-600**

GPIN.652441.003 TU (Technical condition)



Electric motors are intended to be used as the motor-wheel drive for dump trucks BelAZ with a weight capacity up to 220 t.

Types of climatic version – NF2, T2 acc. To GOST 15150-69.

Operation category according to the affection by the mechanical factors of the outdoor environment acc. to M28 GOST 30631-99.

Heat resistance of the insulating materials as for the motor windings corresponds to "F" and "H" class acc. to GOST 8865-93. The insulating materials are moisture-resistant.

The electric motor provides a reverse.

Excitement of the electric motor – series in motoring condition and independent or series during the work in the alternator mode.

Category of the electric motor relating to assembly type – IM 4202 acc. to GOST 2479-79.

The electric motor IP category – IP00 acc. to GOST IEC 60034-5-2011.

Cooling system of electric motor – IC17 acc. to GOST R MEK 60034-6-2012.

The electric motor can be operated at the heights of up to 1200 m above sea level.

Basic technical specifications

Parameter	Value	
	NF2	T2
Rated capacity, kW	600	540
Nominal voltage, V	830	
Rotating speed, sec ⁻¹ (rpm)		
– rated	15.17 (910)	
– max	46.7 (2800)	
Torque, N·m		
– rated	6300	5700
– max	12700	11500
Efficiency, %	94	
Excitation rate, %		
– rated	100	
– max	32	
Duty type acc. to GOST IEC 60034-1-2014	S1 (continuous)	
Weight, kg, max	3300	

The electric motor can be used with increase in power to 800 kW (NF2) / 720 kW(T2) in duty type S6 60%. Duration of operation – 40 minutes.

The electric motor without damages and residual deformations maintains within 2 min emergency increase in frequency of rotation to 58.3 sec⁻¹ (3500 rpm).



MAIN OVERALL AND INSTALLATION DIMENSIONS OF THE ELECTRIC MOTOR EDP-600

