



**TRACTION INDUCTION MOTOR ATD-4450/6**  
GPIN.652433.001 TU (Technical conditions)



Induction motors are intended to be used as the motor-wheel drive for dump trucks BelAZ with a weight capacity up to 90t.

Types of climatic version - NF2 acc. to GOST 15150-69.

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

Heat resistance of the insulating materials as for the motor windings corresponds to class "200" acc. to GOST 8865-93.

The electric motor provides a reverse.

Category of the electric motor relating to assembly type – IM4202 acc. to GOST 2479-79.

The electric motor IP category – IP20 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
Capacity, kW	360
Nominal voltage (network), V	700
Current, A	393
Rotating speed, sec <sup>-1</sup> (rpm):	
– rated	12,83 (770)
– max	66,67 (4000)
Rated torque, N·m	4465
Rated frequency, Hz	39
Efficiency, %, above	94,1*
Power factor	0,80
Duty type acc. to GOST IEC 60034-1	S1 (continuous)
Number of phases	3
Weight, kg, max	1920

Remarks:

1 The parameters are calculated when powered a source of simple harmonic voltage.

2 \* The value of efficiency is given for a temperature of 150 °C.

Phases connection– Y-system.

The motor must maintains short-term increase in current to 700A during 60 sec.



## MAIN OVERALL AND INSTALLATION DIMENSIONS OF THE MOTOR ATD-4450/6

