



**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.

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

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

The electric motor provides a reverse.

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

The electric motor IP category – IP20 acc. to GOST IEC 60034-5.

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

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	2000

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

