

## ELECTRIC MOTORS OF ACBO TYPE



Asynchronous three-phase special blown vertical double-speed electric motors of **ACBO** type with a cage rotor are designed for gearless drive of fans in cooling towers.

**Operating mode** is continuous **S1** from AC, 50 Hz  
**Climatic modification type:** Y1, Y5 at 100% humidity.

**Design on a way of installation:** IM 9631

**Protection type:** IP 54

**Way of cooling:** IC 0141

Electric motors suppose **the right and left direction of rotation**. Change of rotation direction is carried out only from rest condition. The insulation of the stator winding belongs to heat resistance class "F"

### Symbol structure:

<b>ACBO</b>	asynchronous special vertical blown
<b>45, 75, 90</b>	motor power, kW
<b>32/64</b>	Number of pole ends
<b>Y1, Y5</b>	Climatic modification type

Standard size	Power, kW	Voltage, V	Rotational speed (synchr.), rpm	Mass, Kg
ACBO-45-32/64	45/6	380	187,5/93,7	2000
ACBO-75-32/64	75/9,4			2200
ACBO-90-32/64	90/11,3			2400

### The basic advantages of electric motors of ACBO type over analogues:

The electric motors of ACBO type are motors, which design enables:

- ✓ to prevent condensate formation in the case due to installed heaters;
- ✓ to protect stator winding and control bearings temperature due to relays, built -in the stator winding, and resistant thermal converters installed in bearing units;
- ✓ to install vibration pickups in specified place to control the state of bearing units.

Replacement of single-speed serial electric motors by double-speed electric motors of ACBO type enables:

- ✓ to carry on the processing method of water -cooling in towers according to climatic conditions and, due to this, achieve considerable saving of electric power;
- ✓ to realize motor start in sparing condition for the motor and starting equipment, and due to this, raise its reliability;
- ✓ to shift the electric motor on lower rotational speed instead of stop, that realizes maintenance reduction and raises reliability of electric motors.
- ✓ application of double-speed electric motors of ACBO type instead of single-speed ones allows reducing investment pay-back period.