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**ETURBEV ACS180-04N-09A4-4**

# ETURBEV ACS180-04N-09A4-4 Inverter User Manual

Model: ACS180-04N-09A4-4

## 1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the ETURBEV ACS180-04N-09A4-4 Inverter. Please read this manual thoroughly before attempting to install or operate the device. Retain this manual for future reference.

## 2. Safety Information

Always observe the following safety precautions to prevent injury, damage to the inverter, or other equipment.

- **Electrical Hazard:** This device operates with high voltages. Only qualified personnel should perform installation, wiring, and maintenance.
- **Disconnect Power:** Always disconnect all power sources before working on the inverter or connected equipment. Wait for capacitors to discharge completely.
- **Proper Grounding:** Ensure the inverter is properly grounded according to local and national electrical codes.
- **Environmental Conditions:** Do not expose the inverter to moisture, direct sunlight, excessive dust, or corrosive environments. Operate within specified temperature and humidity ranges.
- **Ventilation:** Ensure adequate ventilation around the inverter to prevent overheating.

## 3. Product Overview

The ETURBEV ACS180-04N-09A4-4 is a robust inverter designed for industrial applications. It converts DC power to AC power, enabling precise control of motor speed and torque. Its compact design and advanced features make it suitable for various industrial processes.




L1 L2 L3
1499.50
rpm
OK
BACK
Start
Stop
ACS380

Figure 3.1: Front view of the ETURBEV ACS180-04N-09A4-4 Inverter, showing its compact enclosure and control panel area.

### Key Features:

- 3-Phase operation
- IP20 Degree of Protection
- MODBUS Communication Protocol
- Multiple Analog and Digital I/O
- High Power Factor (0.98)

## 4. Setup

Proper setup is crucial for the inverter's performance and safety.

### 4.1 Mounting

1. Select a mounting location that is clean, dry, and free from vibrations.
2. Ensure sufficient clearance around the inverter for cooling air circulation.
3. Mount the inverter vertically on a stable, non-flammable surface using appropriate fasteners.

### 4.2 Wiring

1. All wiring must comply with local and national electrical codes.
2. Connect the main power supply (380-480V) to the designated input terminals.
3. Connect the motor to the output terminals.
4. Connect the ground wire to the inverter's ground terminal.
5. Wire control signals (Analog Inputs, Digital I/O) and communication cables (MODBUS) as required by your application. Refer to the wiring diagram provided with the product for specific terminal assignments.

## 5. Operating Instructions

Follow these steps for basic operation of the inverter.

### 5.1 Power On

1. After completing all wiring and safety checks, apply main power to the inverter.
2. The inverter's display (if present) should illuminate, indicating power is supplied.

### 5.2 Basic Operation

1. Use the control panel or connected communication interface (e.g., MODBUS) to set desired operating parameters such as frequency, speed, and acceleration/deceleration ramps.
2. Initiate motor start command via the control panel or external control signal.
3. Monitor the inverter's status and motor performance.
4. To stop the motor, issue a stop command.

### 5.3 Communication Protocol

The inverter supports MODBUS communication. Refer to the MODBUS communication guide for detailed register maps and communication parameters for integration with a PLC or other control systems.

# 6. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your inverter.

## 6.1 Routine Checks

- **Visual Inspection:** Periodically inspect the inverter for any signs of damage, loose connections, or excessive dust accumulation.
- **Cleaning:** Keep the inverter clean. Use a soft, dry cloth to wipe down the exterior. For internal cleaning (if necessary), disconnect power and use compressed air to remove dust from heat sinks and fans.
- **Ventilation:** Ensure that cooling air inlets and outlets are not obstructed.
- **Tightness:** Check terminal screw tightness periodically, especially after initial installation.

**Caution:** Always disconnect power before performing any maintenance or cleaning procedures.

# 7. Troubleshooting

This section provides general guidance for common issues. For complex problems, contact technical support.

| Problem | Possible Cause | Solution |
|---|---|---|
| Inverter does not power on | No input power; Blown fuse; Incorrect wiring | Check power supply; Inspect fuses; Verify wiring connections. |
| Motor does not start | Incorrect parameters; No start command; Motor fault | Verify parameter settings; Check start signal; Inspect motor. |
| Overheat alarm | Insufficient ventilation; High ambient temperature; Overload | Ensure clear airflow; Reduce ambient temperature; Check motor load. |
| Communication error | Incorrect wiring; Wrong protocol settings; Address conflict | Check communication cable; Verify MODBUS settings (baud rate, parity, address); Resolve address conflicts. |

# 8. Specifications

Technical specifications for the ETURBEV ACS180-04N-09A4-4 Inverter.

| Parameter | Value |
|---|---|
| Model | ACS180-04N-09A4-4 |
| Number of Phases | 3 |
| Degree of Protection | IP20 |
| Enclosure Type | Open Type |
| Altitude | 1000 m |
| Power Factor | 0.98 |

| Parameter | Value |
|---|---|
| Sound dB (A) | 50.90 dB(A) |
| Frequency (f) | 50 ... 60 Hz |
| Frame Size | R1 |
| Input Voltage (Uin) | 380 ... 480 V |
| Communication Protocol | MODBUS |
| Number of Hardware Interfaces | RS-485 (1) |
| Analog Inputs | 2 |
| Analog Outputs | 1 |
| Number of Digital In/Outputs | 4 / 2 |
| Output Current, Heavy-Duty Use (IHD) | 7.2 A |
| Output Current, Light-Overload Use (ILD) | 8.9 A |
| Output Current, Normal Use (In) | 9.4 A |
| Output Power, Heavy-Duty Use (PHD) | 3 kW |
| Output Power, Light-Overload Use (PLD) | 4 kW |
| Output Power, Normal Use (Pn) | 4 kW |
| Apparent Power Output | 6.5 kV.A |
| Efficiency Level | IE2 |
| Standby Loss | 9 W |
| Item Weight | 50 Grams |

## 9. Warranty and Support

For warranty information, please refer to the documentation provided at the time of purchase or contact your supplier. ETURBEV is committed to providing high-quality products and support.

If you encounter any issues not covered in this manual or require technical assistance, please contact ETURBEV customer support or your authorized distributor. When contacting support, please have your product model number (ACS180-04N-09A4-4) and serial number ready.

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**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

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