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ETURBEV ACS355-03E-15A6-4

ETURBEV ACS355-03E-15A6-4 Inverter User Manual

Model: ACS355-03E-15A6-4

1. Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of the ETURBEV ACS355-03E-15A6-4 Inverter. Please read this manual thoroughly before installing or operating the device to ensure proper functionality and to prevent damage or injury.

2. Safety Information

Warning: Electrical shock hazard. Only qualified personnel should install, operate, or service this equipment. Disconnect all power before working on the inverter. Failure to follow these instructions may result in serious injury or death.

- Ensure proper grounding of the inverter.
- Do not operate the inverter with damaged wiring or components.
- Protect the inverter from moisture and extreme temperatures.
- Always wear appropriate personal protective equipment (PPE) when working with electrical systems.

3. Product Overview

The ETURBEV ACS355-03E-15A6-4 is a robust 3-phase inverter designed for industrial applications. It features an open-type enclosure with IP20 protection, suitable for cabinet building. The inverter supports various communication protocols and offers multiple hardware interfaces for versatile integration.



Figure 1: ETURBEV ACS355-03E-15A6-4 Inverter unit.

Key Features:

- **Phases:** 3
- **Degree of Protection:** IP20
- **Enclosure Type:** Open Type, for cabinet building
- **Frequency:** 50/60 Hz
- **Input Voltage:** 380-480 V
- **Communication Protocols:** MODBUS, LON, DeviceNet, PROFIBUS, CAN, EtherNet/IP, PROFINET IO, TCP/IP, and other bus systems.
- **Hardware Interfaces:** 1x RS-232, 1x RS-485, 1x Other.
- **Analog Inputs/Outputs:** 2 Inputs, 1 Output.
- **Digital In/Outputs:** 5 Inputs, 1 Output.
- **Output Current (Normal Use):** 15.6 A

- **Output Power (Normal Use):** 7.5 kW
- **Efficiency Level:** IE2

4. Setup and Installation

Proper installation is crucial for the inverter's performance and safety. Refer to local electrical codes and standards during installation.

4.1 Mounting

The ACS355-03E-15A6-4 is designed as a module for cabinet building. Mount the inverter in a vertical position on a flat, stable surface within an appropriate electrical enclosure. Ensure adequate clearance for ventilation and cable routing. Avoid mounting near heat sources or in areas with excessive vibration.

4.2 Wiring

Connect the input power (380-480 V, 3-phase) to the designated terminals. Connect the motor or load to the output terminals. Ensure all connections are secure and correctly phased. Use appropriate wire gauges for the current ratings. Connect the grounding terminal to a reliable earth ground.

4.3 Control Connections

Utilize the analog and digital I/O terminals for control signals. Connect communication cables to the RS-232, RS-485, or other available communication ports as required by your system architecture. The inverter includes PC connection capabilities for configuration.

5. Operating Instructions

After successful installation and wiring, the inverter is ready for operation. The unit is supplied without a control unit and without an optical interface, requiring external control or PC connection for parameter setup and operation.

5.1 Power On

Apply input power to the inverter. Observe any indicator lights for initial status. The inverter will typically perform a self-diagnostic check upon power-up.

5.2 Parameter Configuration

Use a compatible PC software and the provided PC connection interface (e.g., RS-232, RS-485) to configure operating parameters such as motor data, acceleration/deceleration times, frequency limits, and control modes. Refer to the software documentation for detailed parameter settings.

5.3 Start/Stop Operation

Initiate motor operation via external control signals connected to the digital inputs or through the configured communication protocol. Ensure the motor is properly connected and secured before starting. Stop the motor using the corresponding control signal or emergency stop function.

6. Maintenance

Regular maintenance ensures the longevity and reliable operation of your ETURBEV inverter. Always disconnect power before performing any maintenance tasks.

- **Cleaning:** Periodically clean the inverter's exterior to prevent dust and debris accumulation, which can hinder cooling. Use a soft, dry cloth. Do not use liquid cleaners.
- **Inspection:** Regularly inspect wiring connections for tightness and signs of wear or damage. Check for any

unusual noises or odors during operation.

- **Ventilation:** Ensure that the ventilation openings are clear and unobstructed to maintain proper airflow and prevent overheating.

7. Troubleshooting

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

Problem	Possible Cause	Solution
Inverter does not power on.	No input power; faulty wiring; internal fault.	Check power supply and connections. Verify input voltage. Consult a qualified technician.
Motor does not start.	Incorrect parameters; control signal issue; motor fault.	Verify parameter settings. Check control wiring. Inspect motor.
Overheating.	Insufficient ventilation; excessive load; high ambient temperature.	Ensure clear airflow. Reduce load if possible. Check ambient conditions.

8. Specifications

Parameter	Value
Number of Phases	3
Degree of Protection	IP20
Enclosure Type	Open Type (Module for cabinet building)
Frequency (f)	50/60 Hz
Input Voltage (Uin)	380-480 V
Communication Protocols	MODBUS, LON, DeviceNet, PROFIBUS, CAN, EtherNet/IP, PROFINET IO, TCP/IP, Other Bus Systems
Hardware Interfaces	RS-232 (1), RS-485 (1), Other (1)
Analog Inputs	2
Analog Outputs	1
Digital In/Outputs	5 Inputs / 1 Output
Output Current, Normal Use (In)	15.6 A
Output Power, Light-Overload Use (PLD)	7.5 kW
Output Power, Normal Use (Pn)	7.5 kW
Apparent Power Output	11 kV.A
Efficiency Level	IE2
Standby Loss	9 W

9. Warranty and Support

For warranty information, technical support, or service inquiries, please contact your ETURBEV distributor or visit the official ETURBEV website. Ensure you have your product model number (ACS355-03E-15A6-4) and purchase details available when contacting support.

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