



Safety instructions

WARNING! Observe these instructions, if you ignore them, injury or death, or damage to the equipment can occur. If you are not a qualified electrical professional, do not do electrical installation or maintenance work.

- Keep the drive in its package until you install it. After unpacking, protect the drive from dust, debris and moisture.
- Use the required personal protection equipment, safety shoes with antistatic sole, safety glasses, protective gloves and long sleeves, etc.
- When the drive is connected to equipment, it energizes, do not do work on the drive, input cables, motor, control cables or control circuit.
- Do not do work on the drive when a rotating permanent magnet motor is connected to it. A rotating permanent magnet energizes the drive, including the input power supply terminals.

Electrical safety precautions

- Clearly identify the work location and equipment.
- Disconnect all possible voltage sources. Make sure that reconnection is not possible. Lock out and tag out.
 - Open the main disconnecting device of the drive.
 - If you have a permanent magnet motor connected to the drive, disconnect the motor from the drive.
 - Disconnect any dangerous external voltage from the control circuit.
 - After you disconnect power from the drive, always wait 5 minutes to let the intermediate circuit capacitors discharge before you continue.
- Protect any other energized parts in the work location against contact.

- Take special precautions when close to bare conductors.
- Measure the insulation resistance in the control circuit.
 - Use a multimeter with a minimum impedance of 1 M Ω .
 - Make sure that the voltage between the drive input power terminals (U1, U2, U3) and the ground (PE) is within the 0 V-12 V.
 - Make sure that the voltage between the drive output terminals (D1, D2, D3) and the ground (PE) is close to 0 V.
 - Make sure that the voltage between the drive DC terminals (D4+ and D4-) and the ground (PE) is close to 0 V.
- Install temporary grounding as required by the local regulations.
- Apply the process to control of the electrical installation work for a period to comply.

See the drive user's manual for the complete safety instructions.

1. Examine the installation area

The drive is intended for cabinet installation and has a degree of protection of IP20 (2 M, open type as standard).

- Make sure that in the installation area:
- There is sufficient space above and below the drive for cooling, and that air flows and circulates. Refer to the cooling air flow diagram.
 - The ambient conditions are suitable. Refer to ambient conditions.
 - The mounting surface is non-flammable and can hold the weight of the drive. Refer to the weight data.
 - Mounting holes in the drive are non-flammable.
 - There are no sources of strong magnetic fields, such as high-current straight-line conductors or conductors with near the drive. A strong magnetic field can cause interference in the operation of the drive.

2. Install the drive

Use the provided drive with screws or for a DIN rail (Type M4, M5 or M6 x 30 mm (2.4" x 2.0" long).

- Make sure that there is a minimum of 10 mm (3/8") of free space above and below the drive for cooling.
- When gluing drives on top of each other in a panel or cabinet, make sure that the fan air from the drives below do not directly enter the drive above.

WARNING! Do not install the drive upside down. Make sure that the cooling air outlet is at the top in order to avoid the cooling air inlet at the bottom.

To install the drive with screws

- Cut out the mounting bracket from the enclosure and use it to mark the locations for the mounting holes.
- Mark the location for the mounting screws and install outside plugs or adapters.



3. Do not to tighten the screws into the mounting holes

- Place the drive into the mounting screws.
- Tighten the mounting screws securely.



To install the drive to a DIN rail

- Place the top of the drive onto the DIN mounting rail.
- Set the drive against the rail.
- To remove the drive, reverse the above steps.



3. Attach the clamping plates

- Fasten the clamping plate to the bottom of the drive with the provided screws.
- Fasten the top clamping plate to the top of the drive with the provided screws.



4. Measure the insulation resistance

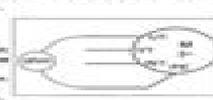
Measuring the insulation resistance is typically not required in North America.

Notes: Do not do voltage tolerance or insulation resistance tests on the drive, because this can cause damage to the drive.

Input power cable: Before you connect the input power cable, measure the insulation resistance of the input power cable. Observe the local regulations.

Motor and output cables

- Make sure that the motor cable is connected to the motor and disconnected from the drive output terminals (U1, U2 and U3).
- Use a voltage of 500V or DC to measure the insulation resistance between each phase conductor and the protective earth conductor. The insulation resistance of an AC motor should be more than 500 M Ω (at 25 °C/77 °F). For the insulation resistance of other motors, refer to the manufacturer's documentation. Measure in the motor because the insulation resistance of any electrical device is higher at room temperature than at the measurement again.



5. Select the cables

Input power cable: IEC/EN 60309-2 requiring three protective earth (ground) conductors. Prefer a symmetrical shielded cable (S/SC) cable. For the best EMC performance, use a shield (the European EMC requirements).

Control cable: Use a shielded twisted-pair cable for analog signals. Use a shielded twisted-pair cable for digital, relay and I/O signals. Do not mix DC and AC/PE signals in the same cable.

6. Connect the power cables

Connection diagram (shielded cables)



- Make sure grounding of the cable shield required for the motor cable and the motor cable, recommended for the input power cable.
- Use a separate grounding cable if the conductivity of the cable shield is not sufficient or there is no recommended conductor grounding conductor in the cable.
- Use a separate grounding conductor if the cross-section of a single grounding conductor is less than 16 mm² or 16 AWG or 100,000 sq cm for the cable shield cable shield.
- Use a separate grounding cable if the conductivity of the fourth conductor of the shield is sufficient for the protection grounding.

Connection procedure (shielded cables)

WARNING! Make sure that the drive is compatible with the earthing system of the system. For other systems, see the drive user's manual.

- Strip the input power cable. Ground the cable shield at each end. The grounding clamp should be placed into a grounding terminal marked accordingly and connected to the grounding terminal. Connect the phase conductors to the U1, U2 and U3 terminals. Connect the phase conductors to the U1, U2 and U3 terminals.
- Strip the motor cable. Ground the cable shield under the grounding clamp. Take the motor cable shield into a terminal, strip, strip and connect it to the grounding terminal. Connect the phase conductors to the U1, U2 and U3 terminals.
- If applicable, connect the brake resistor cable to the D1+ and D4- terminals. Use a separate cable and ground the shield under the grounding clamp.
- Mechanically attach the cables on the outside of the drive.

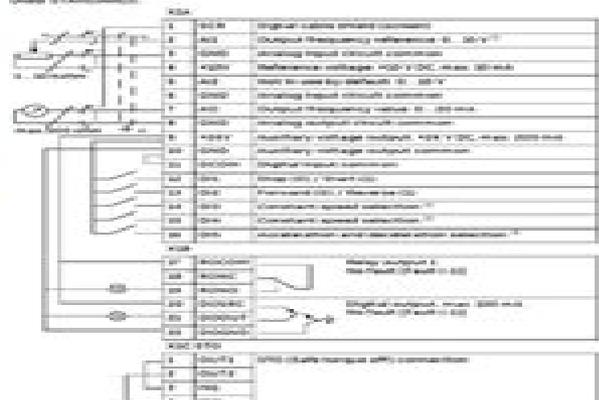


Power line	AC	UL							
UL	UL	UL	UL	UL	UL	UL	UL	UL	UL
UL	UL	UL	UL	UL	UL	UL	UL	UL	UL
UL	UL	UL	UL	UL	UL	UL	UL	UL	UL

7. Connect the control cables

Default I/O connections

The diagram shows the I/O connections when parameter 2007 has value 0 (user I/O connections).



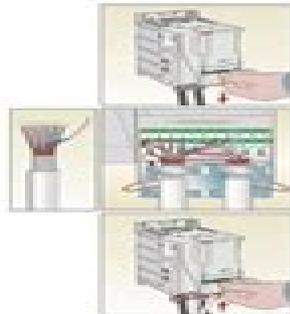
Cables used as a speed reference or motor speed feedback are connected to terminals 2007 and 2008.

If you use the drive in a control system, refer to the drive user's manual for the connection details.

Lightning hazard (UL 98, IEC 61008-1)

Connection procedure

- To prevent inductive coupling, keep the digital wire pairs isolated at the top of the drive.
- Remove the terminal cover.
- Strip the outer insulation of the cable and ground the shield (S/SC) under the clamp.
- For double shielded cables, twist also the grounding conductors of each pair in the cable braid and connect the bundle to the S/SC terminal.
- Mechanically attach the control cables on the outside of the drive.
- If you are going to use an optional Safe Torque Off function, connect S/SC connections for the correct terminals. Use a lightning surge protector for S/SC.
- Connect your new installation terminal module, when the terminal cover is closed.



8. Install the fieldbus module (optional)

See the drive user's manual.

9. Install the control panel (if any)

10. Start up the drive

WARNING! Before you start up the drive, make sure that the installation is complete. Make sure that the cover of the drive is in place. Make sure that the main drive switch is closed. If there is a risk of damage or injury, please refer to the installation checklist in the drive user's manual.

- Start up without a control panel**
- Apply input power and wait for a moment.
- Check that the red LED is not lit and the green LED is lit but not blinking. The drive is now ready for use.
- Start up with a control panel (manual start-up)**

You can use the built-in control panel on the standard control panel. The built-in control panel is not a safety device. Do not use the built-in control panel for safety applications. For safety applications, use the built-in control panel on the standard control panel only.

Before you start, ensure that you have the motor nameplate data at hand.

WARNING! Do not touch the drive output terminals.

- Apply input power.
- Use the built-in control panel to start the drive.

The standard control panel will give you help in the start-up process. The start-up process will start, and you will see the start-up status on the display. The start-up process will stop if there is a fault.

Apply input power

The built-in control panel provides you with the output mode.

Apply input power

The built-in control panel provides you with the output mode.

0.0

rpm

The standard control panel will give you help in the start-up process. The start-up process will start, and you will see the start-up status on the display. The start-up process will stop if there is a fault.

Apply input power

The built-in control panel provides you with the output mode.

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**Rébecca Deneckère, Marite
Kirikova, Janis Grabis**



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instrumentation *Plant Flow Measurement and Control Handbook* Swapan Basu,2018-08-22 *Plant Flow Measurement and Control Handbook* is a comprehensive reference source for practicing engineers in the field of instrumentation and controls It covers many practical topics such as installation maintenance and potential issues giving an overview of available techniques along with recommendations for application In addition it covers available flow sensors such as automation and control The author brings his 35 years of experience in working in instrumentation and control within the industry to this title with a focus on fluid flow measurement its importance in plant design and the appropriate control of processes The book provides a good balance between practical issues and theory and is fully supported with industry case studies and a high level of illustrations to assist learning It is unique in its coverage of multiphase flow solid flow process connection to the plant flow computation and control Readers will not only further understand design but they will also further comprehend integration tactics that can be applied to the plant through a step by step design process that goes from installation to operation Provides specification sheets engineering drawings calibration procedures and installation practices for each type of measurement Presents the correct flow meter that is suitable for a particular application Includes a selection table and step by step guide to help users make the best decision Cover examples and applications from engineering practice that will aid in understanding and application *Document Image Processing* ,1990 *Countering Cyber Sabotage* Andrew A. Bochman,Sarah Freeman,2021-01-19 *Countering Cyber Sabotage* Introducing Consequence Driven Cyber Informed Engineering CCE introduces a new methodology to help critical infrastructure owners operators and their security practitioners make demonstrable improvements in securing their most important functions and processes Current best practice approaches to cyber defense struggle to stop targeted attackers from creating potentially catastrophic results From a national security perspective it is not just the damage to the military the economy or essential critical infrastructure companies that is a concern It is the cumulative downstream effects from potential regional blackouts military mission kills transportation stoppages water delivery or treatment issues and so on CCE is a validation that engineering first principles can be applied to the most important cybersecurity challenges and in so doing protect organizations in ways current approaches do not The most pressing threat is cyber enabled sabotage and CCE begins with the assumption that well resourced adaptive adversaries are already in and have been for some time undetected and perhaps undetectable Chapter 1 recaps the current and near future states of digital technologies in critical infrastructure and the implications of our near total dependence on them Chapters 2 and 3 describe the origins of the methodology and set the stage for the more in depth examination that follows Chapter 4 describes how to prepare for an engagement and chapters 5 8 address each of the four phases The CCE phase chapters take the reader on a more granular walkthrough of the methodology with examples from the field phase objectives and the steps to take in each phase Concluding chapter 9 covers training options and looks towards a future where these concepts are scaled more broadly **Perspectives in Business Informatics Research** Rébecca

Deneckère, Marite Kirikova, Janis Grabis, 2025-09-09 This book constitutes the proceedings of the 24th International Conference on Perspectives in Business Informatics Research BIR 2025 which took place in Riga Latvia in September 2025. The central theme of BIR 2025 was Bridging Knowledge Process and Systems for Responsible Digital Transformation. The 18 full papers and 5 short papers included in the proceedings were carefully reviewed and selected from 61 submissions. They were organized in topical sections as follows: Intelligent Decision Making and Data Management; Human Factors and Well Being in Digital Systems; Enterprise Architecture Modeling and Governing Adaptive Organizations; Process Mining and Digital Twin Perspectives; LLM and Generative AI in Modeling and Engineering; Smart Life and Structuring Security for Responsible Digital Systems. Modern Technologies in Industrial Engineering Constantin Carausu, Viorel Cohal, Ioan Doroftei, Andrzej Wróbel, Dumitru Nedelcu, 2013-11-08 Selected peer reviewed papers from the ModTech International Conference on Modern Technologies in Industrial Engineering ModTech 2013 June 27-29 2013 Sinaia Romania **Title List of Documents Made Publicly Available**, 1995 *Control Engineering*, 1992 Instrumentation and automatic control systems Proceedings of the Sixteenth Reactor Operations International Topical Meeting, 1993 **Robotics Abstracts**, 1990 **Evaluating Practice** Martin Bloom, Joel Fischer, John G. Orme, 2006 Clearly presents all aspects of evaluation for human services including conceptualization, measurement, design and analysis. Focusing on single system designs, this text presents clear and user friendly guidelines on conceptualizing and measuring problems, developing practice oriented evaluation designs, understanding and analyzing data, and ethical guidelines for practice evaluation. Specifically written for students and practitioners in all the human services including social work, psychology, counseling, nursing and psychiatry. TopFuel'97, 1997 Volume 1: 1 Market and fuel cycle economics; 2 Advanced fuel design and materials; 3 Fuel manufacturing and transportation; 4 Recycled uranium and MOX fuel technologies. Volume 2: 5 Fuel management and performance. **Aldus Datebook Pro & Aldus Touchbase Pro**, 1993 *Proceedings*, 1997 **Hydrocarbon Processing**, 2009 September 1 2021 Since 1922 management and technical professionals from petroleum refining, gas processing, petrochemical, chemical and engineer constructor companies throughout the world have turned to Hydrocarbon Processing for high quality technical and operating information. Through its monthly magazine, website and e newsletters Hydrocarbon Processing covers technological advances, processes and optimization developments from throughout the global Hydrocarbon Processing Industry. HPI Hydrocarbon Processing editors and writers provide real world case studies and practical information that readers can use to improve their companies operations and their own professional job skills taken from publisher web site. **The Solicitors' Journal and Weekly Reporter**, 1912 *Scientific and Technical Organizations and Agencies Directory* Peter D. Dresser, 1994 Daily Report, 1995

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