



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 to 24 V range.
 - 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 (UL open type enclosure).

Make sure that in the installation area:

- There is sufficient space above and below the drive for cooling, and hot air does not circulate. 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 20 mm) (2.4 x 2.0 kg).

- Make sure that there is a minimum of 10 mm (2 in) 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 hot 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.



1. Short to ground the terminals like the mounting holes.

2. Place the drive into the mounting screws.

3. Tighten the mounting screws securely.

4. To install the drive to a DIN rail

1. Place the top of the drive onto the DIN bracket like the mounting holes.

2. Set the drive against the rail.

3. To remove the drive, reverse the above steps.

3. Attach the clamping plates

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

2. 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 motor cable:

1. Make sure that the motor cable is connected to the motor and disconnected from the drive output terminals (D1, D2 and D3).

2. 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 (AC/DC): IEC/UL 60309-2 requiring three protective earth (ground) conductors. Prefer a symmetrical shielded cable (S/2) cable. For the best EMC performance and to meet the European EMC requirements.

Control cable: Use a shielded twisted-pair cable for analog signals. Use a shielded twisted-pair cable for digital signals. For the best EMC and IEC/UL 60309-2 signals in the same cable.

6. Connect the power cables

Connection diagram (shielded cables)

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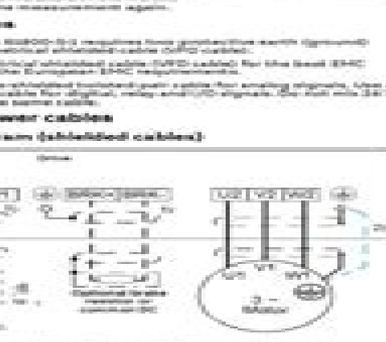
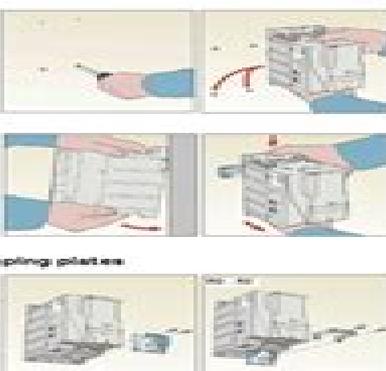
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Power line	Rating	PE
U1, U2, U3	AC 380 V, 50 Hz	
D1, D2, D3	AC 380 V, 50 Hz	2.0 mm (0.079 in)
D4	AC 380 V, 50 Hz	2.0 mm (0.079 in)
D4+	AC 380 V, 50 Hz	2.0 mm (0.079 in)

7. Connect the control cables

Default I/O connections

The diagram shows the I/O connections when parameter 2007 has value 0 (see 2.1.1.1.1.1).



Terminal	Signal	Rating																																																																												
U1, U2, U3	Input cable phase conductors																																																																													
U4	Output frequency reference 0 - 20 V ²																																																																													
U5	Driving input circuit common																																																																													
U6	Reference voltage 0-20 V DC, drive 0-10 mA																																																																													
U7	Stop to stop 0-20 V ²																																																																													
U8	Driving input circuit common																																																																													
U9	AC Output frequency value 0 - 20 V ²																																																																													
U10	Driving output circuit common																																																																													
U11	Auxiliary voltage output 48 V VDC, max. 200 mA																																																																													
U12	Auxiliary voltage output common																																																																													
U13	Digital input common																																																																													
U14	U15	Forward (0) / Reverse (0)																																																																												
U16	U17	Common speed selection (1)																																																																												
U18	U19	Common speed selection (2)																																																																												
U20	U21	Acceleration and deceleration limit selection (1)																																																																												
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1.4kW/12 Volt, CW, 9-Tooth Pinion UNIT TYPE: PG260D PMGR SERIES: PG260D DESIGN: PMGR VOLTAGE: 12. KW: 1.4.

ROTATION: CW NUMBER OF TEETH: 9 2003 Chevrolet Venture - Starter - O'Reilly Auto Parts ACDelco Starter - 337-1030 ...

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