Before Starting Installation


CHECK INSTALLATION SITE: See Manual.

TOOLS NEEDED: Screwdrivers, Wire stripper, Tape measure, 4 pcs 5x12 mm screws, Drill

FROM MOTOR NAMELINE: Supply voltage, Nominal motor current, Nominal frequency, Nominal speed, Nominal power, Cos φ

Note! This Installation Guide is only for setting the speed of a single motor.

1. Using mounting template, mark fixing hole positions.
2. Drill the holes.
3. Screw in four screws or affix nuts and bolts above and below and 50 mm around sides of unit.

Ensure MAINS SUPPLY TO INSTALLATION IS OFF.

ENSURE MOTOR IS SUITABLE FOR USE WITH ACS 400.

IF IN DOUBT DO NOT INSTALL.

ENSURE MOTOR IS INSTALLED BY A COMPETENT PERSON.

CHECK INSTALLATION SITE: See Manual.


Installation Guide for product type ACS 400

Notes:
1. Display shows the OUTPUT mode.
2. Set the control mode to local by pressing and holding the button until "LOCAL CONTROL" is displayed. After releasing the button text LOC appears on the display.
3. The following ACS 400 parameters must be set:
   9901 LANGUAGE
   9905 MOTOR NOM VOLT
   9906 MOTOR NOM CURR
   9907 MOTOR NOM FRQ
   9908 MOTOR NOM SPD
   9909 MOTOR NOM POWER
   9910 MOTOR NOM COS φ

4. Instructions for setting the parameters:
   • Press to enter the Menu. MENU flag becomes visible.
   • Press to select the start-up group (99).
   • Select the parameter with and buttons.
   • Press to get to the parameter set mode.
   • Alter the value by using and buttons.
   • Store the modified value by pressing .
   • After setting all start-up parameters press button twice to resume OUTPUT display.
   • For further information, refer to User’s Manual.

Motor is now ready to run.
Press START/STOP button to turn on motor.

Note! Before increasing motor speed, check that the motor is running in desired direction.
To set the reference:
•To increase the reference press .
•To decrease reference press .
To stop motor press button.

Note! Always disconnect mains supply before working on ACS 400 or motor.
3. Remove the cover.
Press the retaining lever inside.

1. Remove the control panel if fitted.

4. ENSURE PROPER EARTHINGS.

ACS 400 does not carry internal fusing.
Please ensure correct fuses are installed at the supply distribution board. See ACS 400 User’s Manual for correct fuse sizes.

NOTE!

STOP!

1. Stripp off the insulation from the motor cable and mains cable. Twist the screen wires to bundles.
2. Make suitable holes to motor and mains cable grommets.
3. To minimise radio frequency interference (RFI) at the motor and screen 360° earthing at cable lead-through.

STOP!

CHECK THE INSULATIONS OF MOTOR, AND MAINS AND MOTOR CABLE.

MOTOR AND MAINS CONNECTION

1. Lead the motor and mains cables through the clamp plate.
2. Connect the motor cable to the terminal block marked U2 V2 W2 on the right hand side of the ACS 400.
3. Connect the mains cable to the terminal block marked U1 V1 W1 on the left hand side of the ACS 400.
4. ENSURE PROPER EARTHINGS.

NOTE!

ACS 400 does not carry internal fusing.
Please ensure correct fuses are installed at the supply distribution board. See ACS 400 User’s Manual for correct fuse sizes.

STOP!

CHECK THE INSULATIONS OF MOTOR, AND MAINS AND MOTOR CABLE.

MOTOR AND MAINS CONNECTION

1. Lead the motor and mains cables through the clamp plate.
2. Connect the motor cable to the terminal block marked U2 V2 W2 on the right hand side of the ACS 400.
3. Connect the mains cable to the terminal block marked U1 V1 W1 on the left hand side of the ACS 400.
4. ENSURE PROPER EARTHINGS.

NOTE!

ACS 400 does not carry internal fusing.
Please ensure correct fuses are installed at the supply distribution board. See ACS 400 User’s Manual for correct fuse sizes.

STOP!

CHECK the I/O terminals for motor, mains and motor cable.

I/O TERMINAL (X1) WIRING

NO CONTROL PANEL:

1. Replace the front cover:
2. First hook the bottom and fingers.
3. Click the retaining lever to its place.
4. Replace the control panel if available.

STOP!

CHECK that starting the motor does not cause any danger. If there is a risk of damage to the driven equipment in case of incorrect rotation direction of the motor, it is recommended having the driven equipment disengaged when first start is performed.

NOTE!

The drive may start when mains is switched on.

For analogue speed reference, connect potentiometer (2-10 kΩ) to terminals 1-4.
Default setting for AI1 is voltage.
As default motor nominal values are 400(230) V and 50 Hz and 1440 rpm.
To start the drive activate digital input DI 1.
As default digital input DI 2 is deactivated and the rotation direction is forward. To reverse the rotation direction activate DI 2.
Switch on mains.

NOTE!

For further information on I/O settings, refer to User’s Manual for product type ACS 400.
CONTROL PANEL:

Proceed with the step 11.
3. Remove the cover. Press the retaining lever inside.

4. ENSURE PROPER EARTHINGS.

ACS 400.
marked U1 V1 W1 on the left hand side of the ACS 400.
marked U2 V2 W2 on the right hand side of the ACS 400.

3. Connect the mains cable to the terminal block marked U1 V1 W1 on the left hand side of the ACS 400.
4. ENSURE PROPER EARTHINGS.

NOTE! ACS 400 does not carry internal fusing. Please ensure correct fuses are installed at the supply distribution board. See ACS 400 User’s Manual for correct fuse sizes.
Before starting installation:

1. Ensure mains supply to installation is off.
2. Ensure motor is suitable for use with ACS 400. ACS 400 must be installed by a competent person. If in doubt do not install.

Installation Guide for product type ACS 400

1. Display shows the OUTPUT mode.

2. Set the control mode to local by pressing and holding the button until "LOCAL CONTROL" is displayed. After releasing the button text LOC appears on the display.

3. The following ACS 400 parameters must be set:
   - 9901 LANGUAGE
   - 9905 MOTOR NOM VOLT
   - 9906 MOTOR NOM CURR
   - 9907 MOTOR NOM FREC
   - 9908 MOTOR NOM SPEED
   - 9909 MOTOR NOM POWER
   - 9910 MOTOR COS

Motor is now ready to run.
Press START/STOP button to turn on motor.

4. Instructions for setting the parameters:
   - Press to enter the menu. MENU flag becomes visible.
   - Press to select the start-up group (99).
   - Select the parameter with and buttons.
   - Press to get to the parameter set mode.
   - Alter the value by using and buttons.
   - Store the modified value by pressing
   - After setting all start-up parameters press button twice to resume OUTPUT display.
   - For further information, refer to User's Manual

Note! Before increasing motor speed, check that the motor is running in desired direction.
To set the reference:
- To increase the reference press .
- To decrease reference press .
To stop motor press . button.

Note! Always disconnect mains supply before working on ACS 400 or motor.

Packing box lid contains wall mounting template. Remove it from the box.

ACS 400 should only be mounted vertically on a smooth, solid surface, free from heat, damp and condensation. Ensure minimum air flow gaps of 200 mm above and below and 50 mm around sides of unit.

1. Using mounting template, mark fixing hole positions.
2. Drill the holes.
3. Screw in four screws or affix nuts and bolts (depending on mounting surface).

Tools needed: Screwdrivers, Wire stripper, Tape measure, 4 pcs 5x12 mm screws, Drill

FROM MOTOR NAMEPLATE: Supply voltage, Nominal motor current, Nominal frequency, Nominal speed, Nominal power, Cos

This Installation Guide is only for setting the speed of a single motor.

Note!
- Press START/STOP button to turn on motor.
- To stop motor press . button.
- To increase the reference press .
- To decrease reference press .
- To stop motor press . button.

After setting all start-up parameters press button twice to resume OUTPUT display.

If in doubt do not install.

Note! Lift ACS 400 by its chassis and not by its cover.