Quick start guide - Altistart 22

1 Preliminary information

Information below is designed to use for simple applications with 2-wire control mode and freewheel stop. If you need more information, or for other applications, see the User manual (BBV51330) on www.schneider-electric.com. For a hard copy, contact your local sales Office or Schneider Electric representative.

Note:
DO NOT USE this guide for Altistart 22 connected inside the delta of the motor (it means Altistart 22 connected to the motor with delta connections in series with each motor windings). In this case, see User manual on www.schneider-electric.com.

Read and understand these instructions before performing any procedure with this soft starter.

2 Check the delivery of the soft starter

Remove Altistart 22 from the packaging and check that it has not been damaged.

DAMAGED SOFT STARTER EQUIPMENT
Do not operate or install any soft starter or soft starter accessory that appears damaged.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Ensure that the soft starter reference on the nameplate is similar to the purchase order delivery note.

Write the soft starter model Reference: ATS22 ______ and Serial Number:___________________

3 Check the line voltage compatibility

Check that the line voltage is compatible with the supply range of the soft starter.

Line voltage _______ Volts       Soft starter voltage range ___________ Volts
Control voltage _______ Volts   Soft starter control voltage range _______ Volts

4 Mount the soft starter vertically

For a surrounding air temperature up to 40 °C (104°F).

HAZARD OF ELECTRIC SHOCK, EXPLOSION AND ARC FLASH
ATS22 soft starters are open devices and must be mounted in a suitable enclosure.

Failure to follow these instructions will result in death or serious injury.

For other thermal conditions, see user manual (BBV51330) on www.schneider-electric.com.
5 Connect the soft starter

For ATS22●●●Q or ATS22●●●S6
2-wire control, freewheel stop

a) Connect Power:
- Wire the soft starter to the ground.
- Wire the soft starter to the line supply: 1/L1 – 3/L2 – 5/L3.
- Check that the motor voltage is compatible with the soft starter voltage.
- Wire the soft starter to the motor.

b) Connect Control:
- Check that the control supply is 230V for CL1 and CL2.
- Remove the red sticker which covers the CL1-CL2 terminals.
- Wire control supply: CL1 and CL2.
- Wire logical inputs: LI1 and LI2.
- Wire the relay: R2A and R2C.

Note: For additional information in order to size the protective and control devices, refer to the catalog or the user manual available on www.schneider-electric.com
6 Connect the soft starter

For ATS22●●●S6U
2-wire control, freewheel stop

a) Connect Power:
- Wire the soft starter to the ground.
- Wire the soft starter to the line supply: 1/L1 – 3/L2 – 5/L3.
- Check that the motor voltage is compatible with the soft starter voltage.
- Wire the soft starter to the motor.

b) Connect Control:
- Check that the control supply is 110V for CL1 and CL2.
- Remove the red sticker which covers the CL1-CL2 terminals.
- Wire control supply: CL1 and CL2.
- Wire logical inputs: LI1 and LI2.
- Wire the relay: R2A and R2C.

Note: For additional information in order to size the protective and control devices, refer to the catalog or the user manual available on www.schneider-electric.com
Power on the control

- Check that S3 is open.
- Switch on: Q1, Q2, Q3 and Q4.
- The soft starter displays \textit{rdY}.

Adjust $U\text{ }l_n$ line voltage

- Push scroll down button $\downarrow$ to reach \textit{conf} menu.
- Push \textit{exit} button.
- Push scroll down button $\downarrow$ to reach $U\text{ }l_n$ parameter.
- Set $U\text{ }l_n$ to the main line voltage ac value, using scroll Up/down. $\uparrow\downarrow$
- Push \textit{enter} button to validate the $U\text{ }l_n$ value.

Adjust $I_n$ motor rated current

- In \textit{conf} menu
- Push scroll down button $\downarrow$ to reach $I_n$ parameter.
- See Nominal Motor Current on Motor Nameplate (Motor Full Load Amps) in STAR connection, note the “Amps” value.
- Set $I_n$ to this value using scroll Up/down.
- Push \textit{enter} button to validate the $I_n$ value.

Apply power to the Altistart 22 and start the motor

- Close the enclosure.
- Push S2 button.
- The soft starter displays \textit{rdY}.
- Close S3, the motor starts.

Factory settings

The Altistart 22 is factory configured for most standard applications. If the factory configuration is not suitable for your application, refer to User manual (BBV51330) on www.schneider-electric.com. Here is the list of writable parameters in an “easy start up” mode.

<table>
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<tr>
<th>Menu</th>
<th>Code</th>
<th>Description</th>
<th>Factory setting</th>
<th>Customer setting</th>
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<tr>
<td>\textit{conf} Configuration</td>
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<td>Soft starter rated current</td>
<td>According to the soft starter rating</td>
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<tr>
<td></td>
<td>$dLtA$</td>
<td>Connection type (Line or delta)</td>
<td>\textit{LInE}</td>
<td></td>
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<tr>
<td></td>
<td>$U\text{ }l_n$</td>
<td>Line voltage</td>
<td>ATS22-\textit{Q} range: 480 Vac ATS22-\textit{Q6}-\textit{S6U} ranges: 480 Vac</td>
<td></td>
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<tr>
<td></td>
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<td>Motor rated current</td>
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<tr>
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<td></td>
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<tr>
<td></td>
<td>$tL\text{ }t$</td>
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<td>350% of $I_n$</td>
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<td>15 s</td>
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<td>$ACC$</td>
<td>Acceleration time</td>
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<td></td>
<td>$dEC$</td>
<td>Deceleration time</td>
<td>\textit{FrEE} (Freewheel)</td>
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<td></td>
<td>$EdC$</td>
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<td>0</td>
<td></td>
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<td></td>
<td>$tHP$</td>
<td>Motor thermal protection</td>
<td>10 (IEC class 10)</td>
<td></td>
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</tbody>
</table>

$\textit{rdY}$: soft starter ready, when power and control voltage are present and the motor is not operating.

$\textit{nrdY}$: when power is not supplied and control voltage is supplied or when power and control voltage are present with LI1 not connected and LI2 present (run command).