

Basic Setting for ATV610U07N4

What is the purpose Input the basic parameter for the 3 phase motor to run (forward and reverse) and use the preference speed

What units are effected

1. ATV610U07N4
2. 3 Phase Motor
3. Terminal

Details This application is divided into several parts

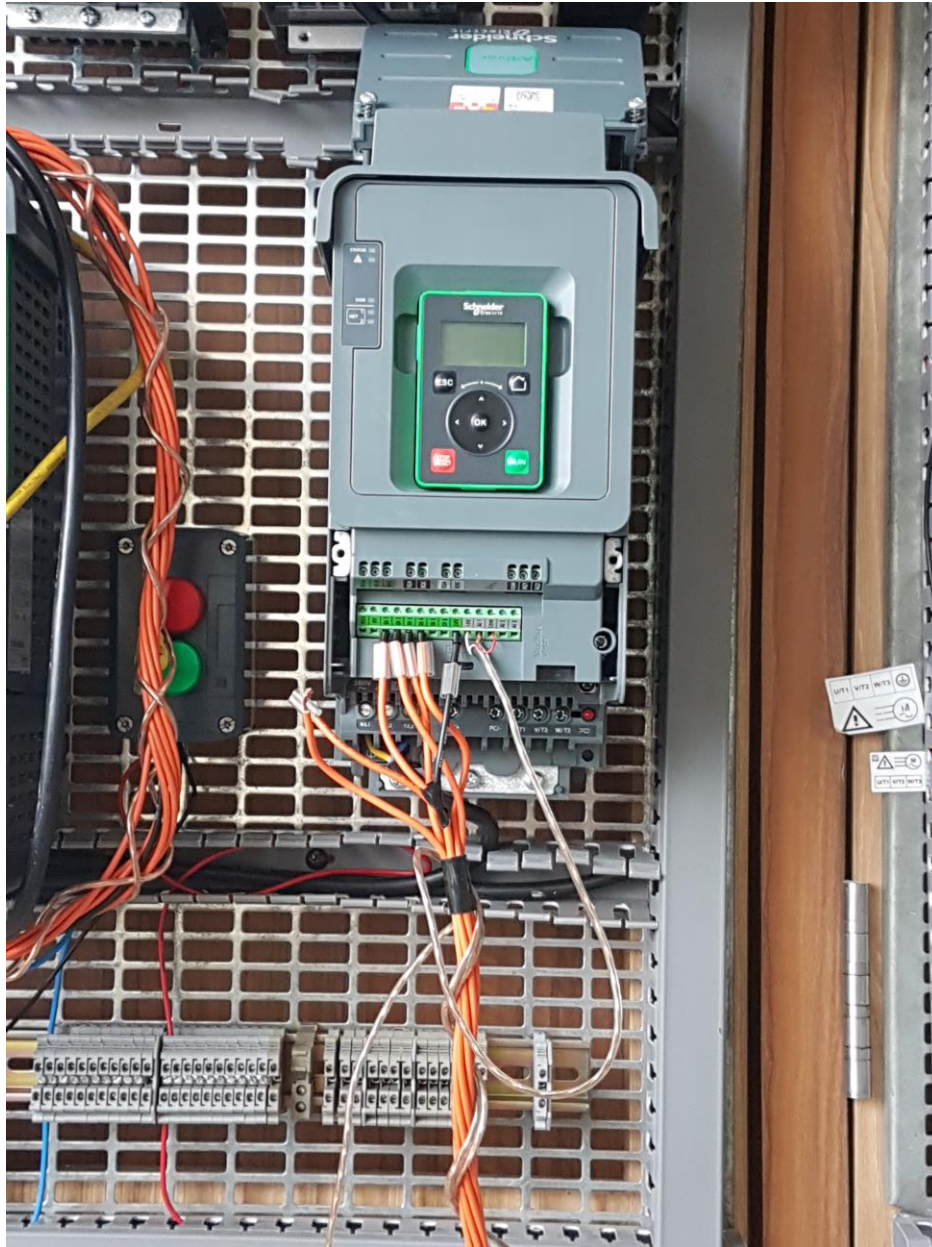
Section	Title
1	Parts List
2	Architecture System
3	Step by Step
4	Remarks

Section 1: Parts list

Parts List table Items used in the test

Items	Part numbers	Description
VSD	ATV610U07N4	-
Terminal	-	-
3 phase motor	-	-

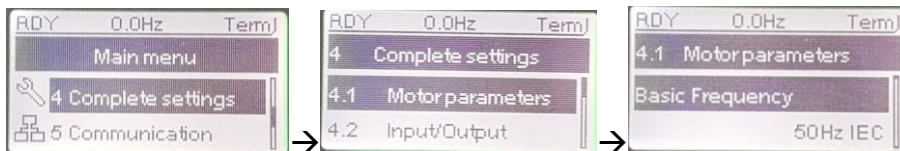
Section 2: Architecture System



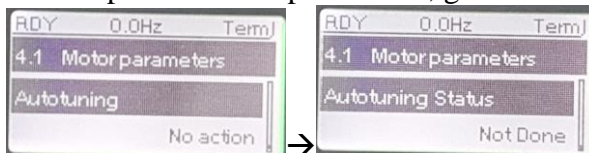
Section 2: Architecture Systemstep by step

1. Connecting the voltage to the VSD and the output to the 3 phase motor
2. Setting the motor parameter,
go to complete setting → motor parameters:

- Basic frequency: 50 Hz IEC
- Nominal motor power: 0.18 kW
- Nominal motor current: 0.72 A
- Acceleration: 10 s
- Deceleration: 3 s
- Low speed: 0 Hz
- High speed: 50 Hz
- Nominal motor speed: 1350
- Output ph rotation: ABC
- 2/3 wire control: 2-wire control

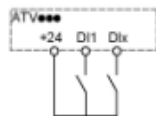


3. After input the motor parameters, go to autotuning → apply autotuning



4. Wire the terminal with digital input 1-2 (DI1-DI2).

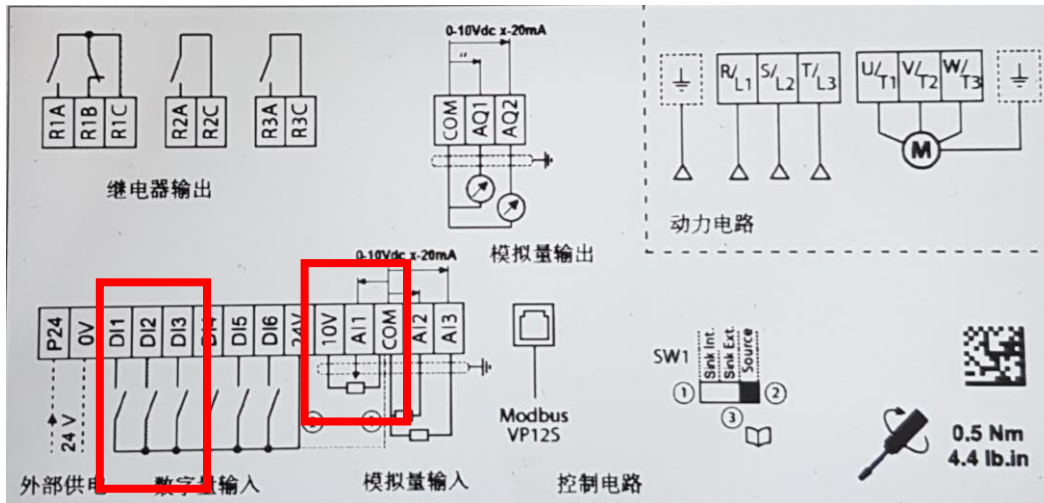
2-wire control (level commands): This is the input state (0 or 1) or edge (0 to 1 or 1 to 0), which controls running or stopping.
 Example of source wiring:



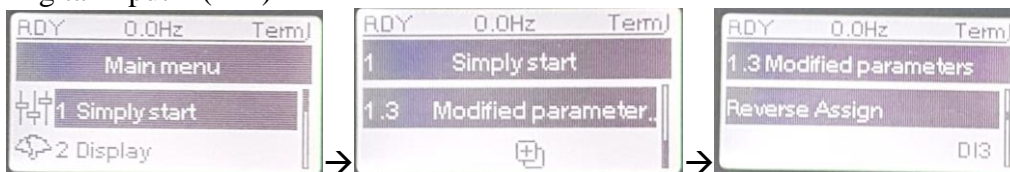
DI1 Forward
 DIx Reverse

Factory setting

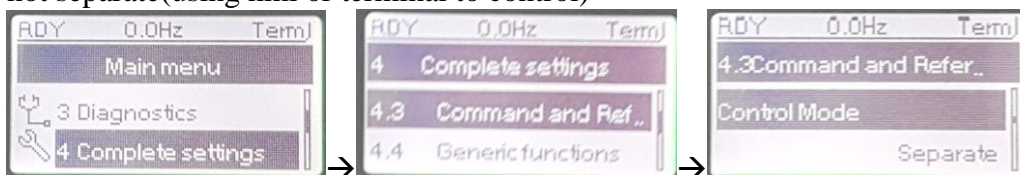
5. Wire the analog input for the potentiometer for speed preference



6. For set the reverse assignment go to simply start → modified parameters → reverse assign: Digital input 2 (DI2)



7. For setting the speed preference can use the the terminal or the HMI, for the setting go to: complete setting → command and reference → control mode: separate (for 2 type controlling), not separate (using hmi or terminal to control)



Section 5: Remark

- Check the input voltage
- Check the motor nameplate (voltage, current, $\cos \phi$)
- Make sure the motor starter (star or delta) check the wiring configuration in the motor