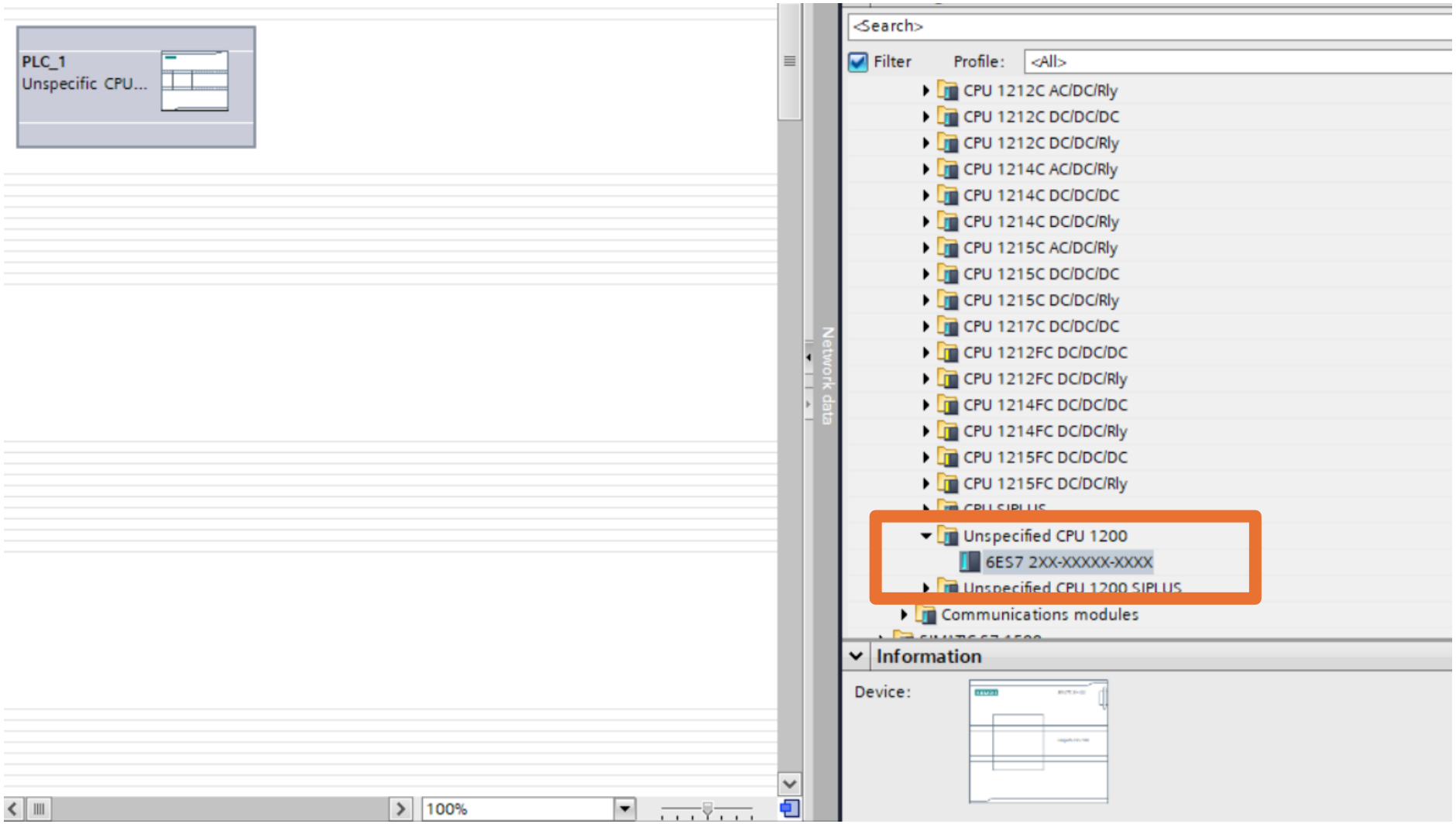
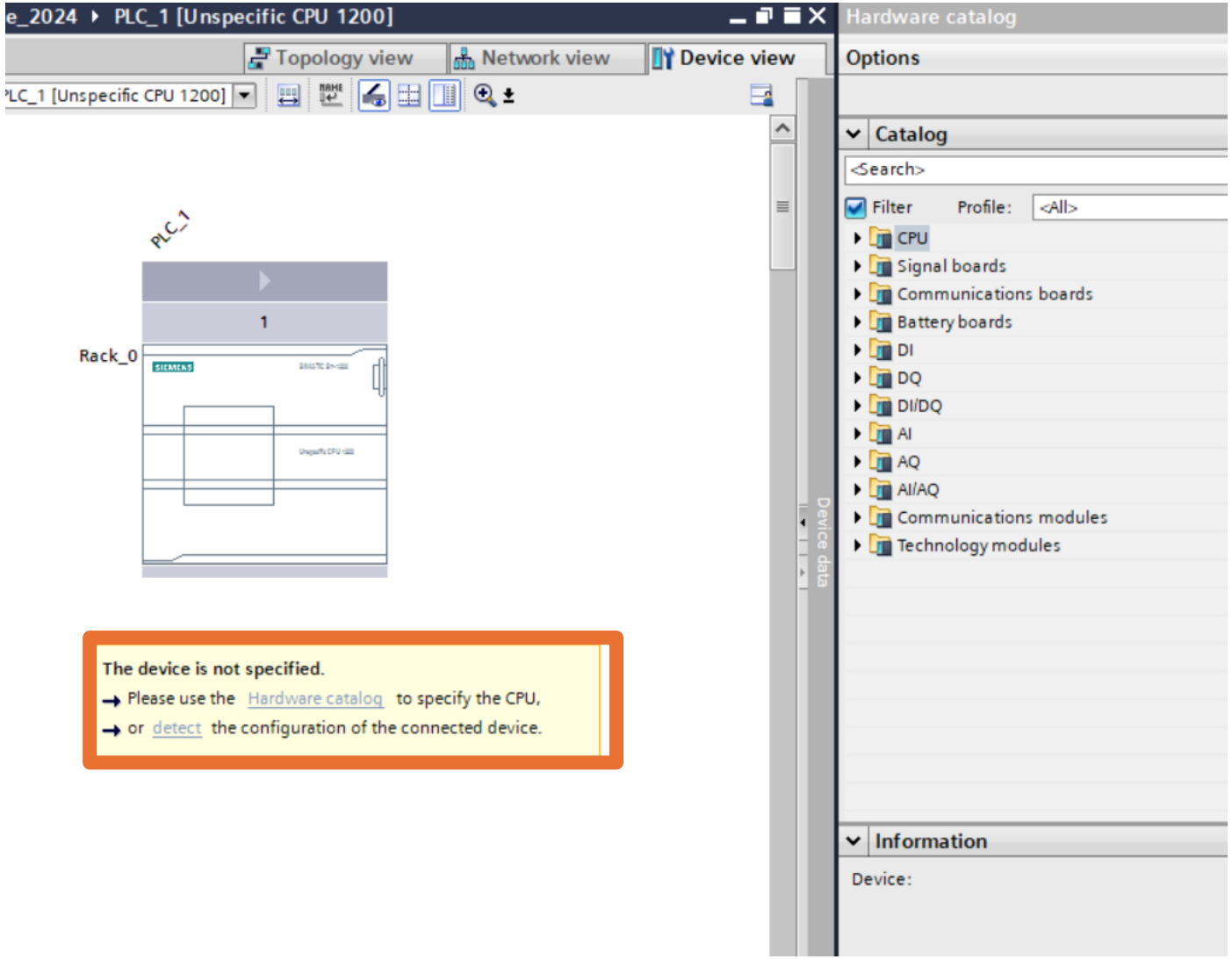
PLC & Sinamics S210

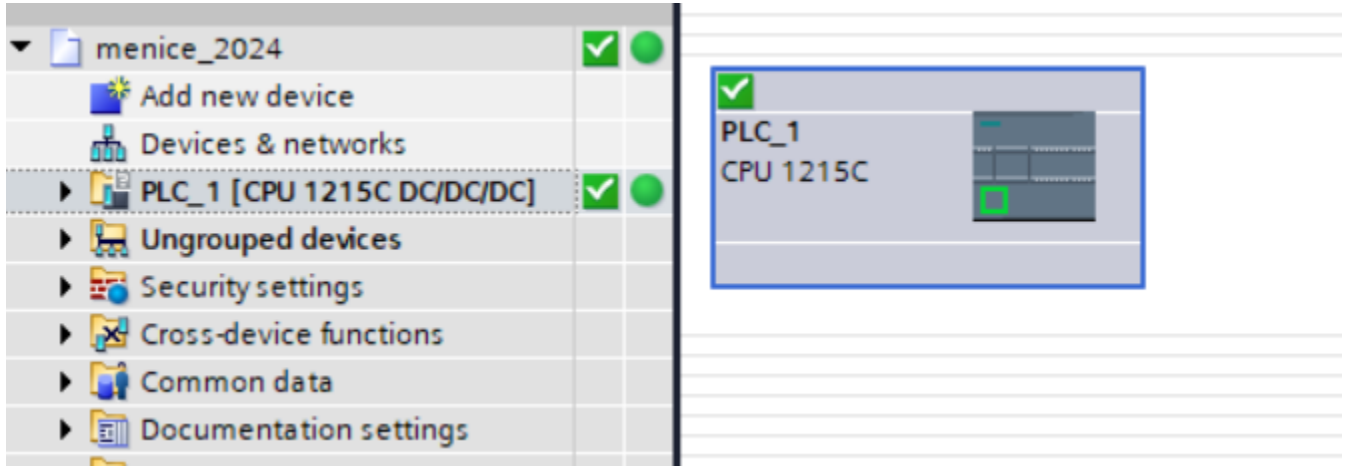
1. Add Unspecified PLC



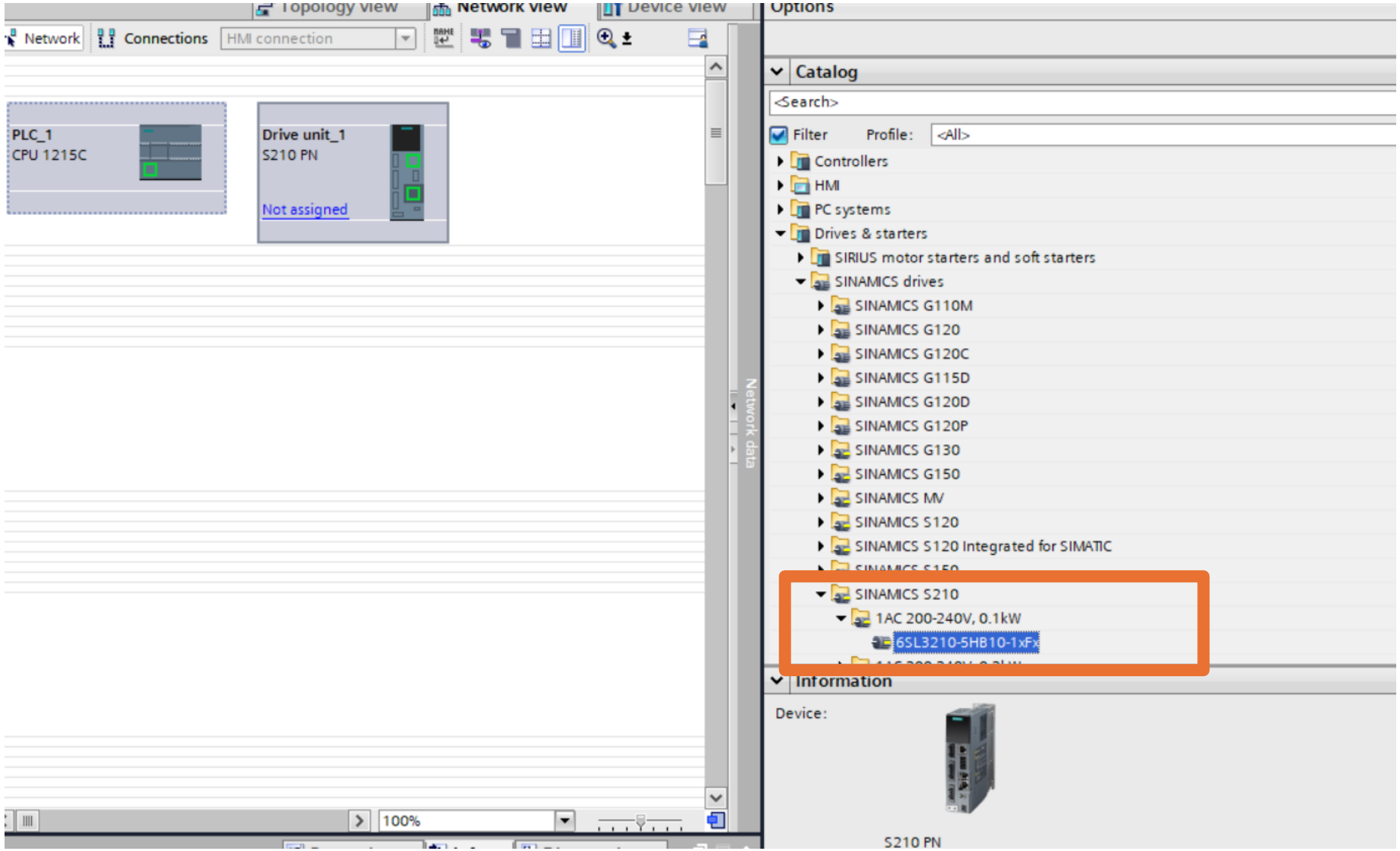
2. Detect PLC


e_2024 ▸ PLC_1 [Unspecific CPU 1200]
Topology view
Network view
Device view
LC_1 [Unspecific CPU 1200]
PLC_1
1
Rack_0
SIEMENS
The device is not specified.
Please use the Hardware catalog to specify the CPU,
or detect the configuration of the connected device.
Hardware catalog
Options
Catalog
<Search>
Filter
Profile:
<All>
CPU
Signal boards
Communications boards
Battery boards
DI
DQ
DI/DQ
AI
AQ
AI/AQ
Communications modules
Technology modules
Device data
Information
Device:

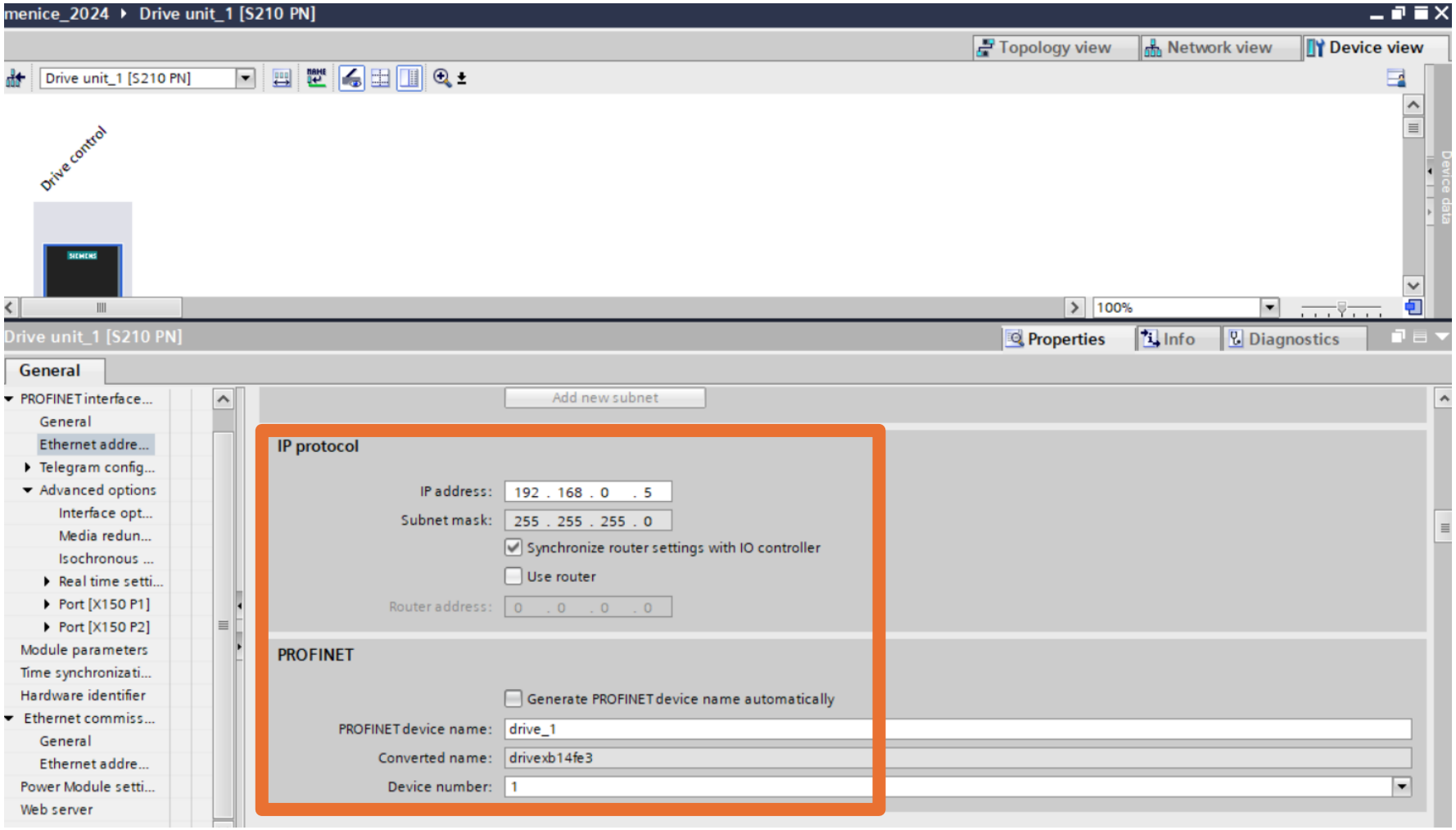
3. Verify connection



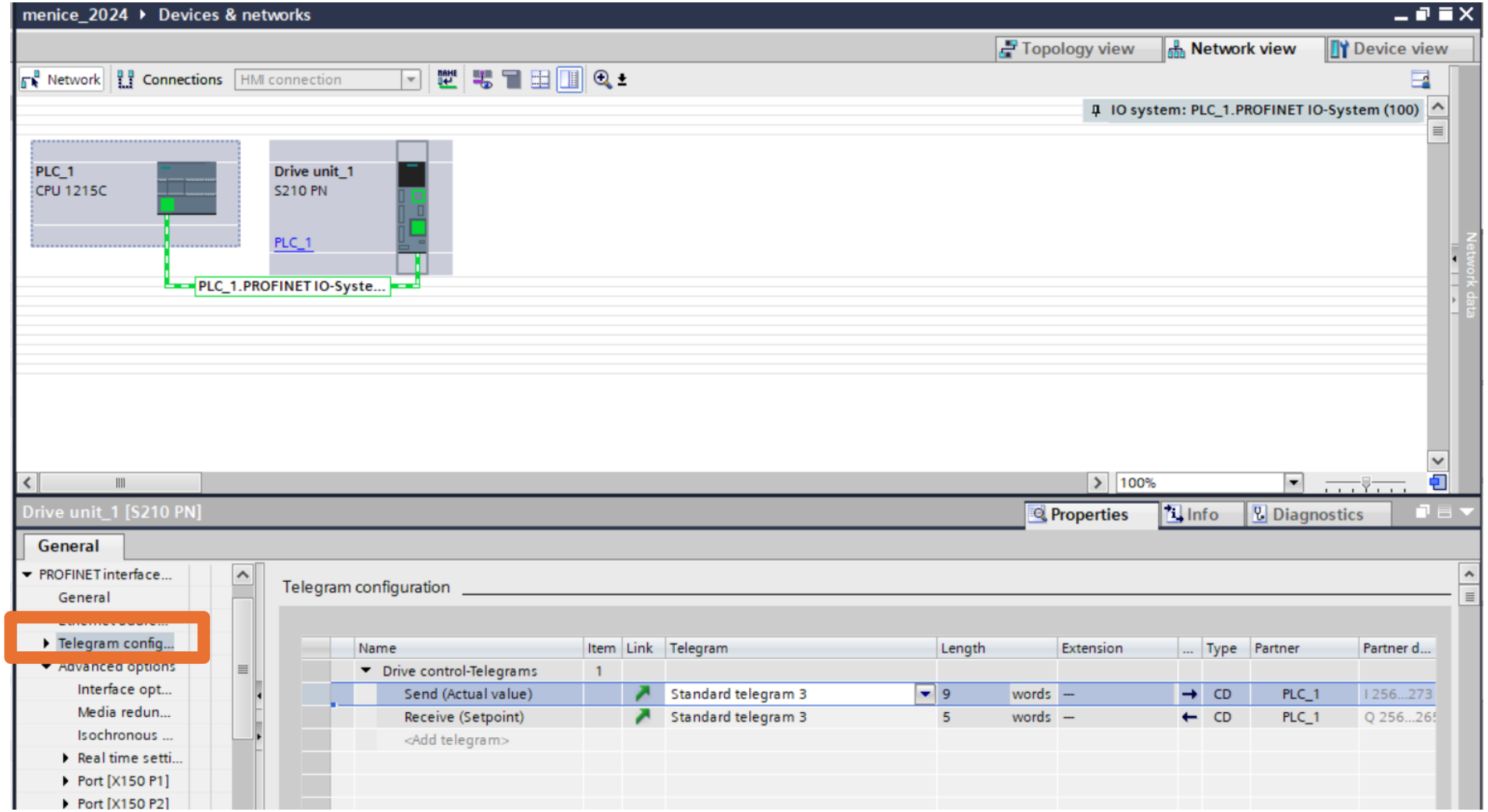
4. Add Sinamics S210



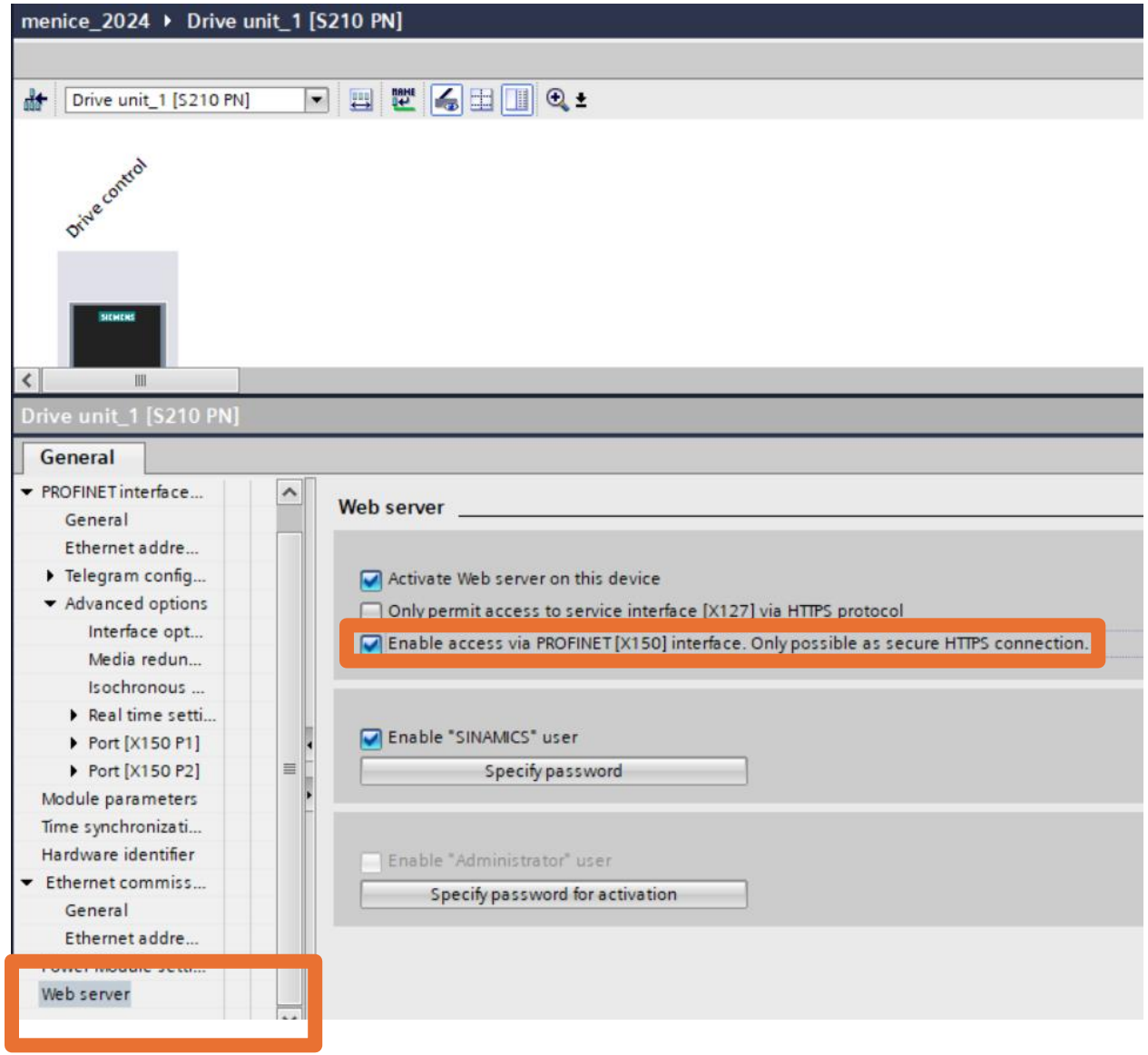
5. Set up PROFINET



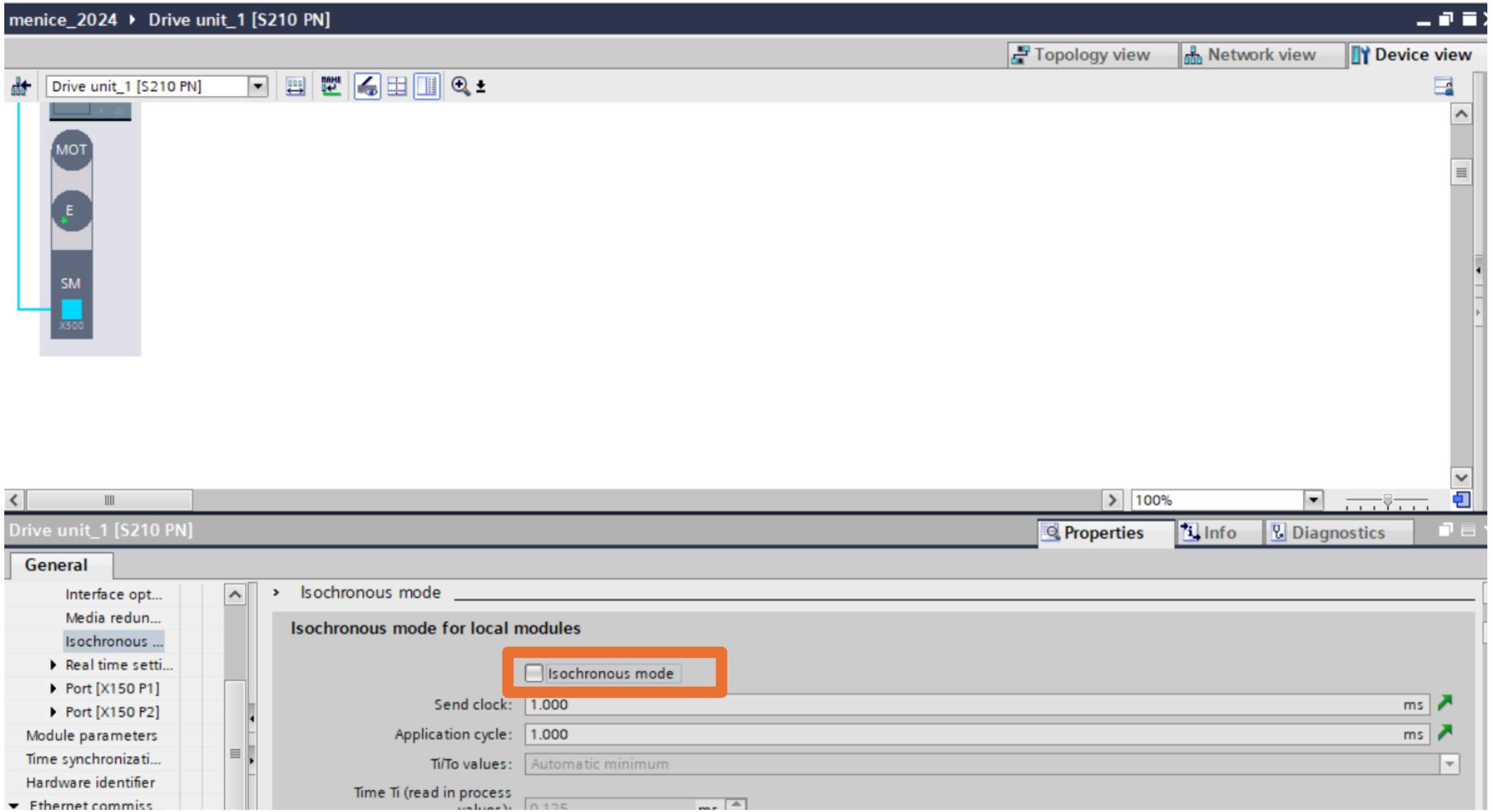
6. Select communication telegram 3



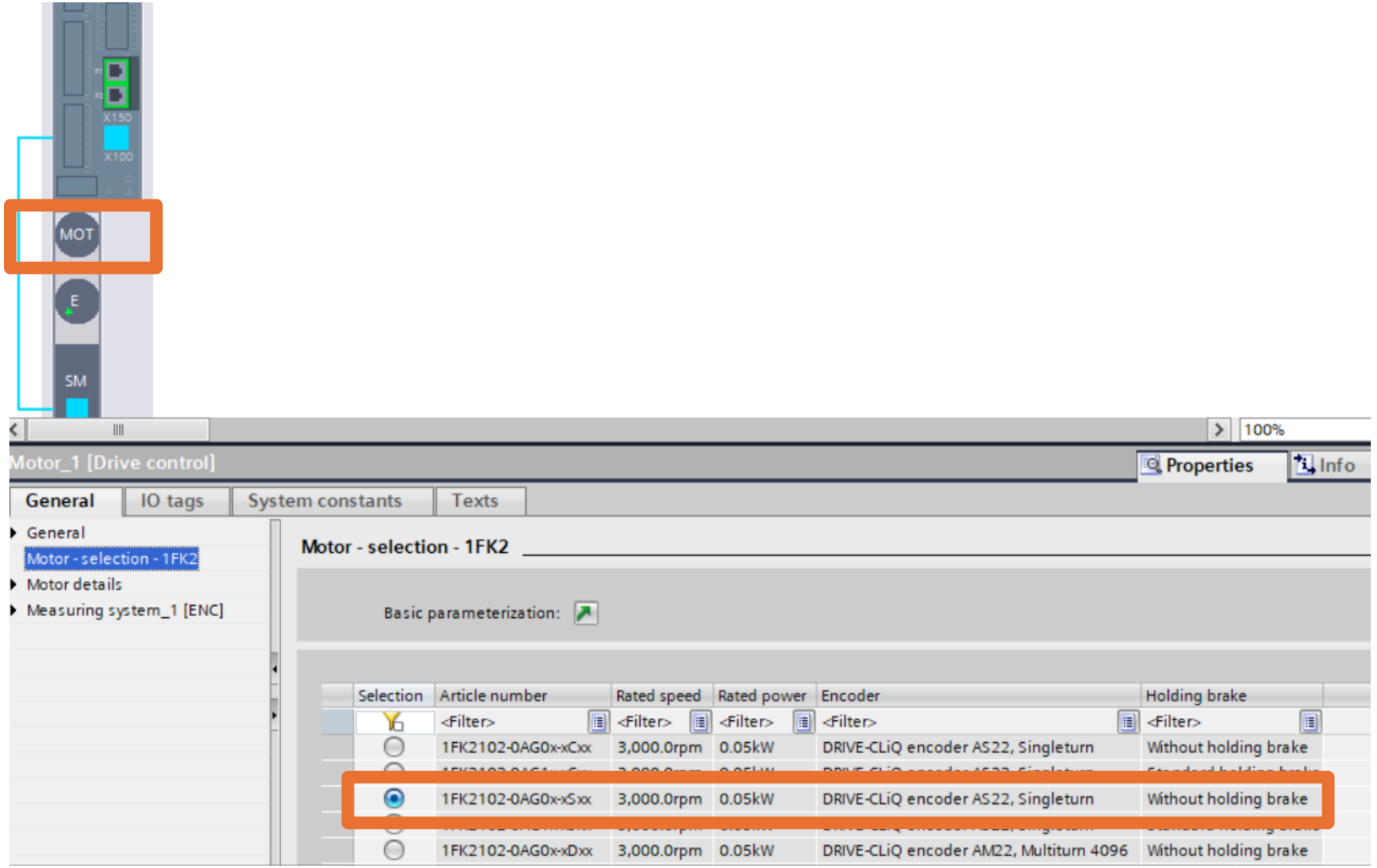
Optional: Enable webserver through PROFINET port X150



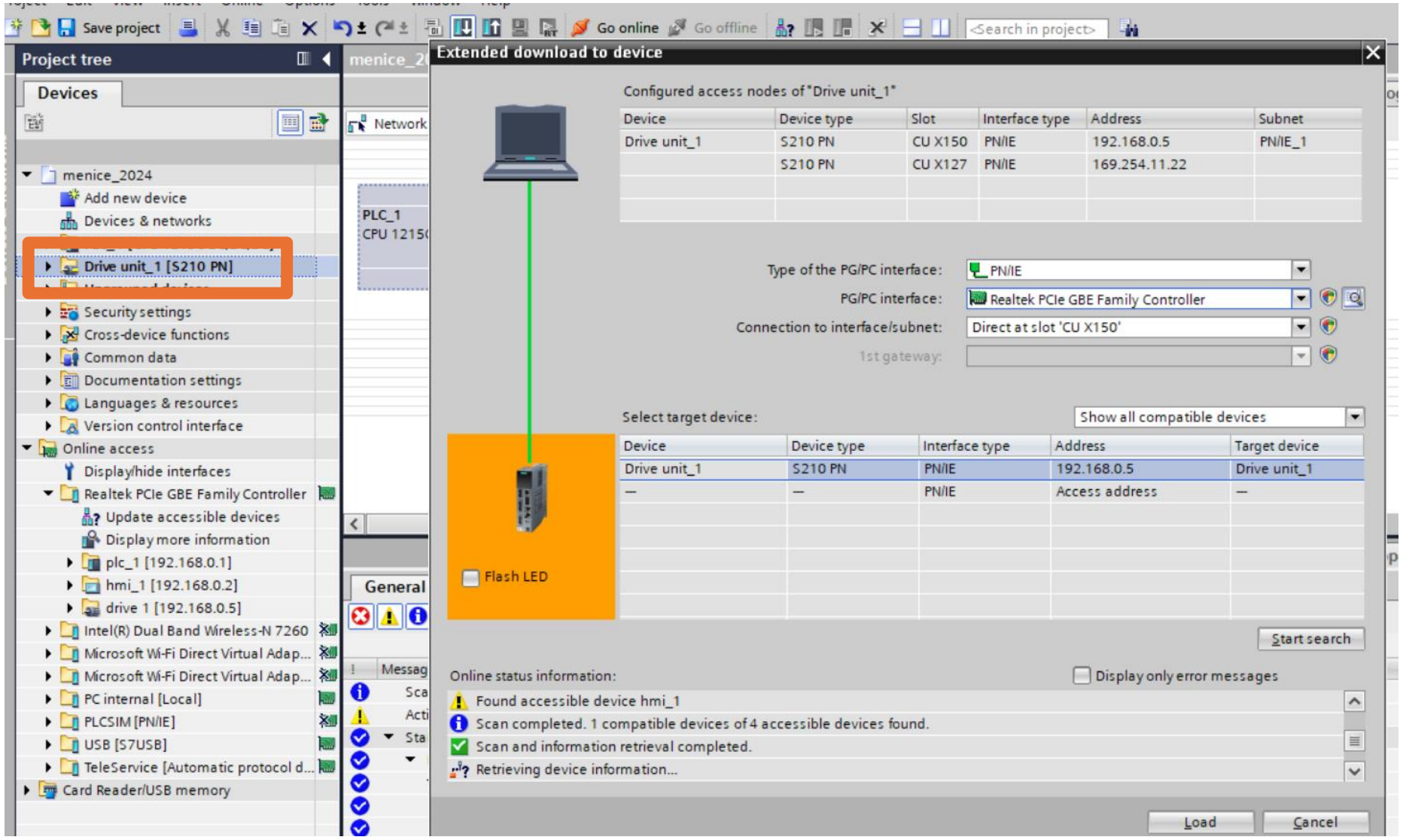
7. Disable Isochronous mode



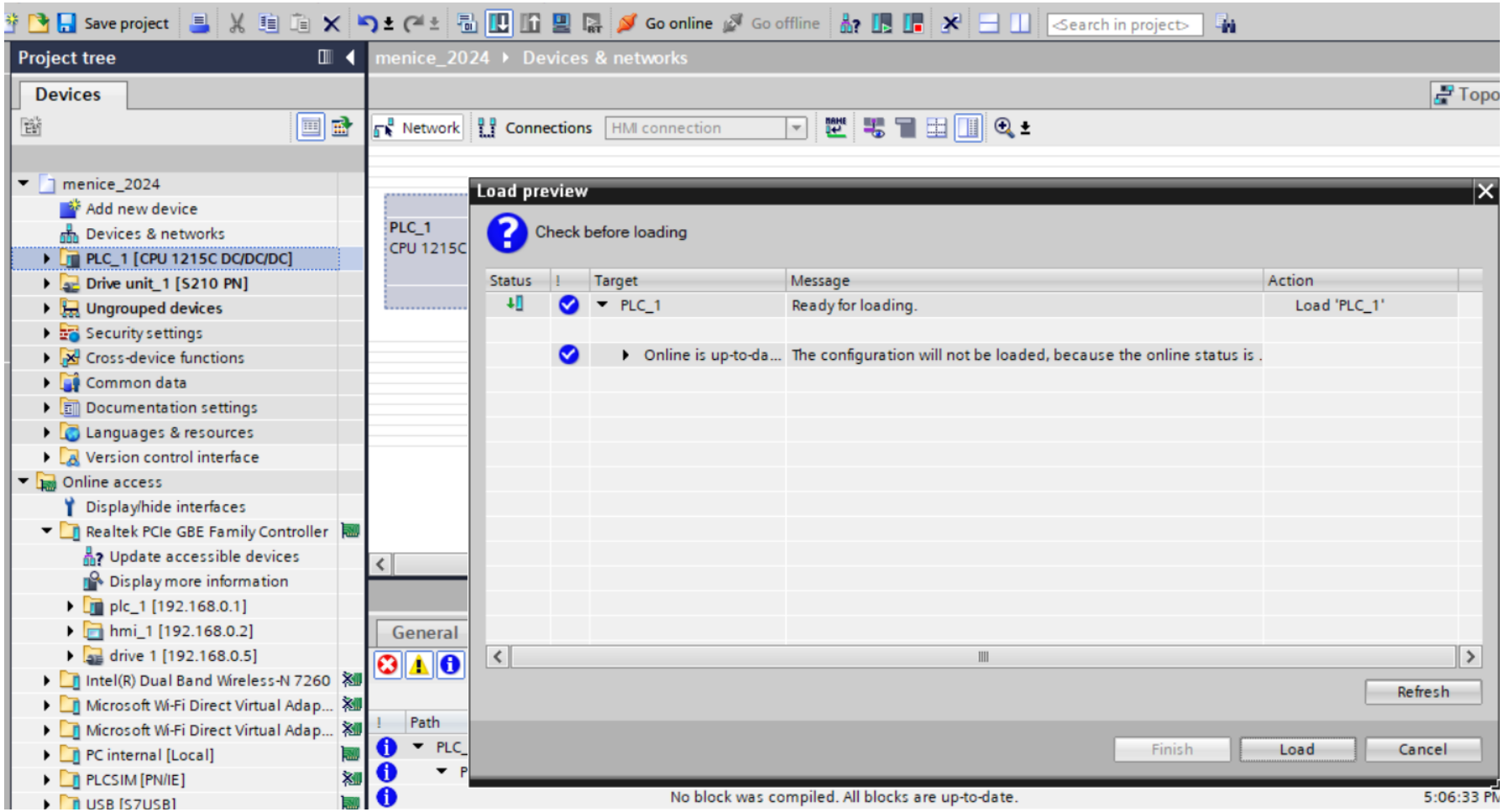
8. Set up motor (click on motor icon)



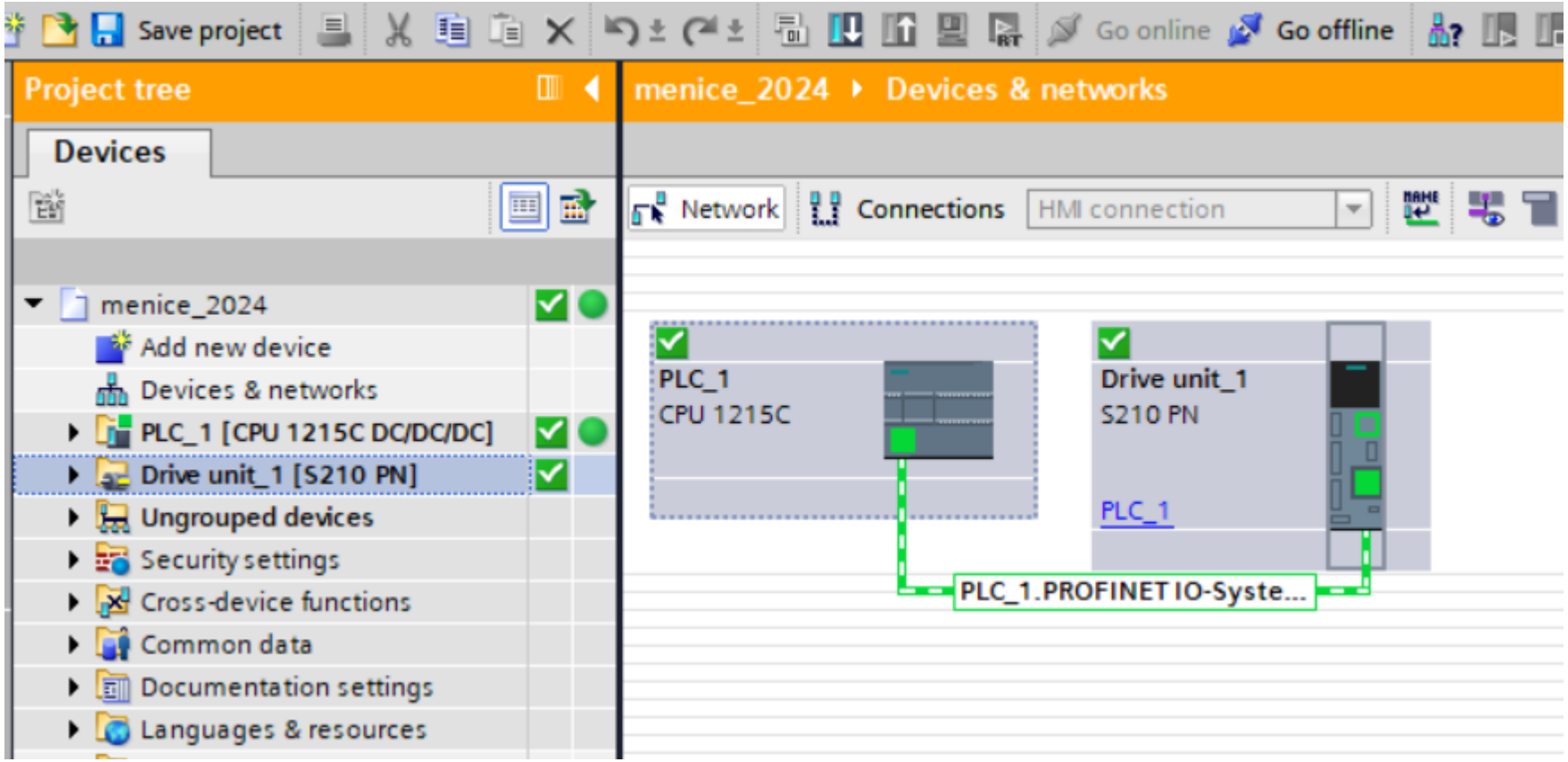
9. Upload config to S210



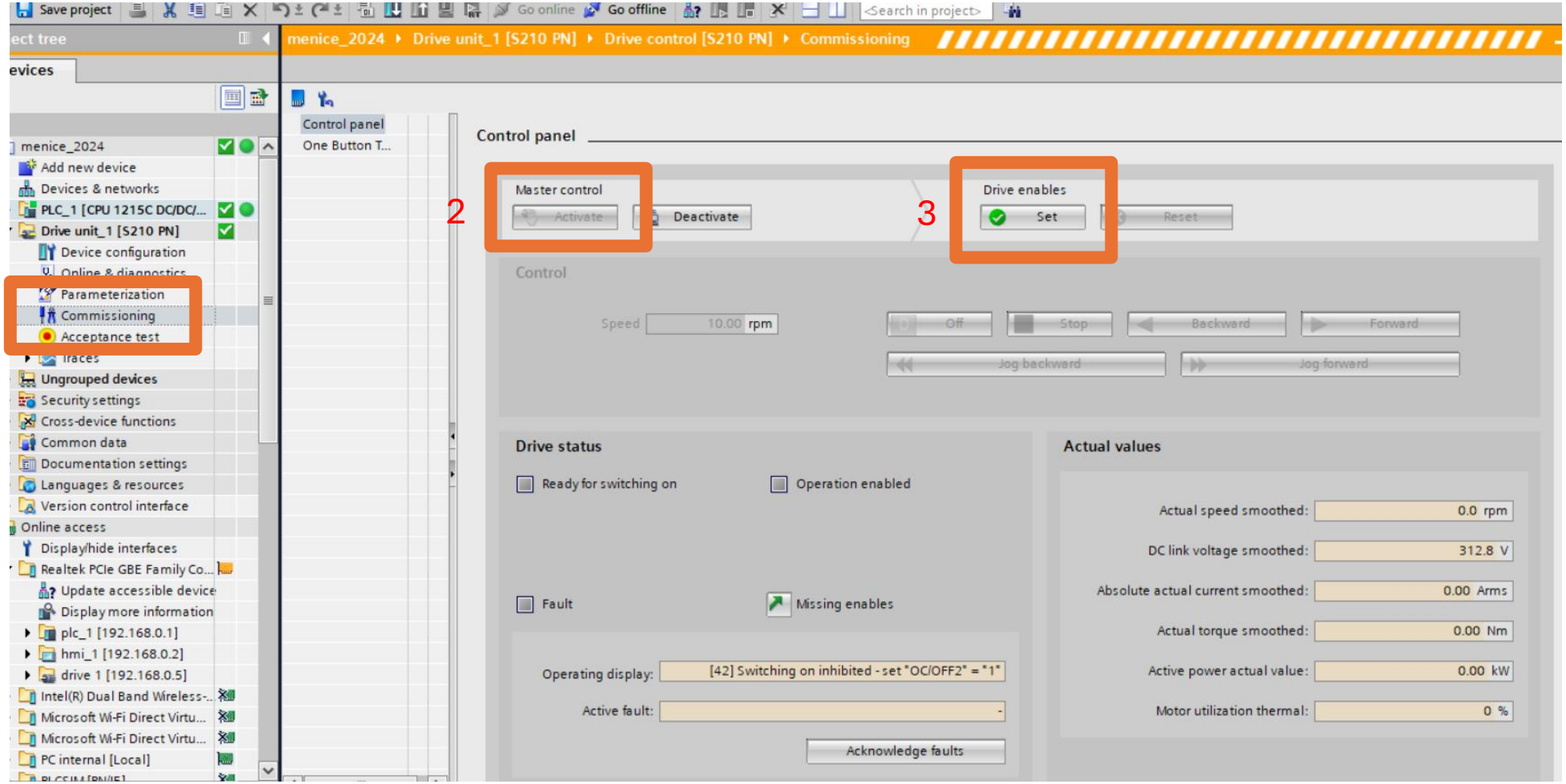
10. Upload config to PLC



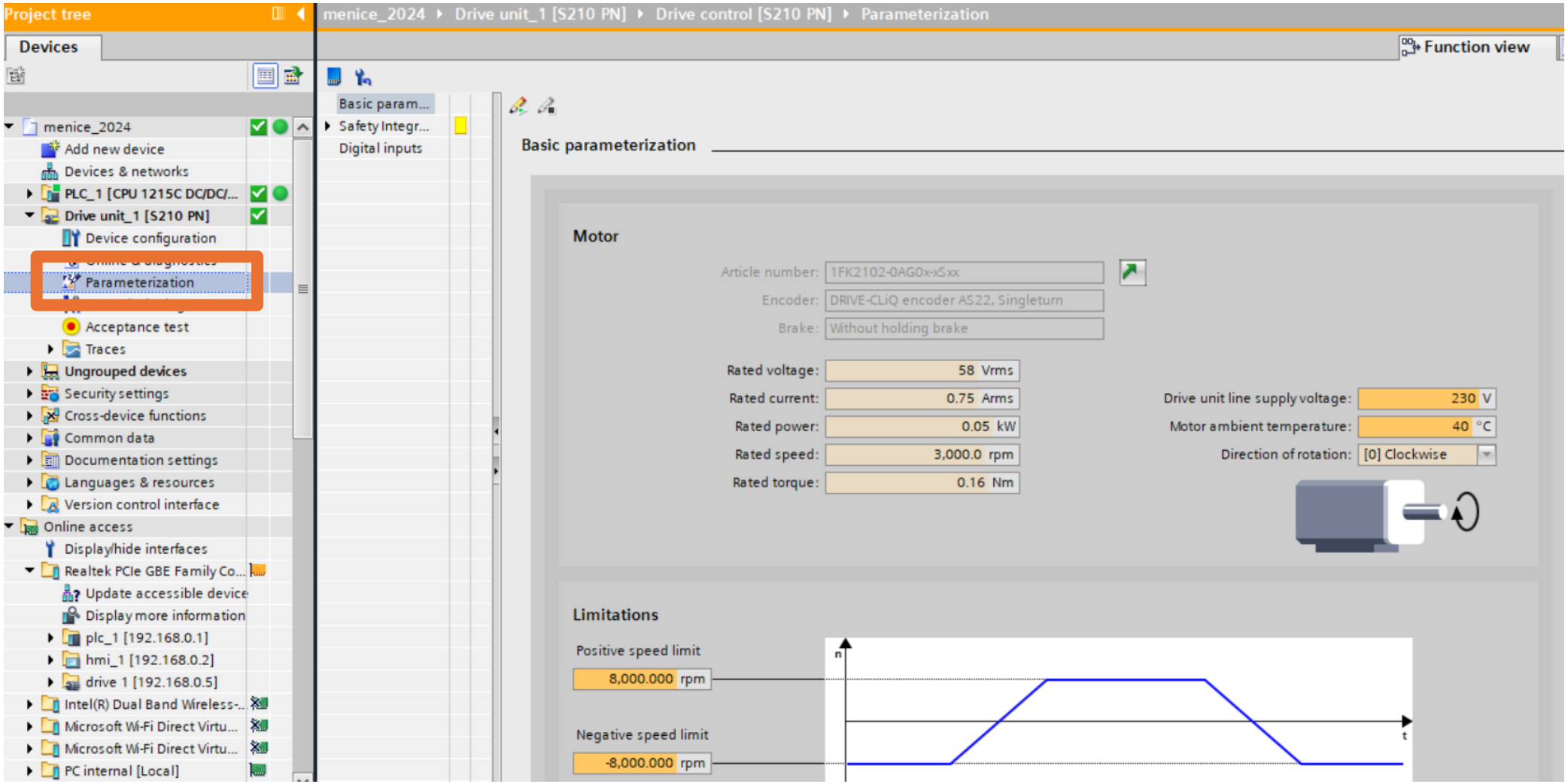
Optional: Verify by going online on both devices



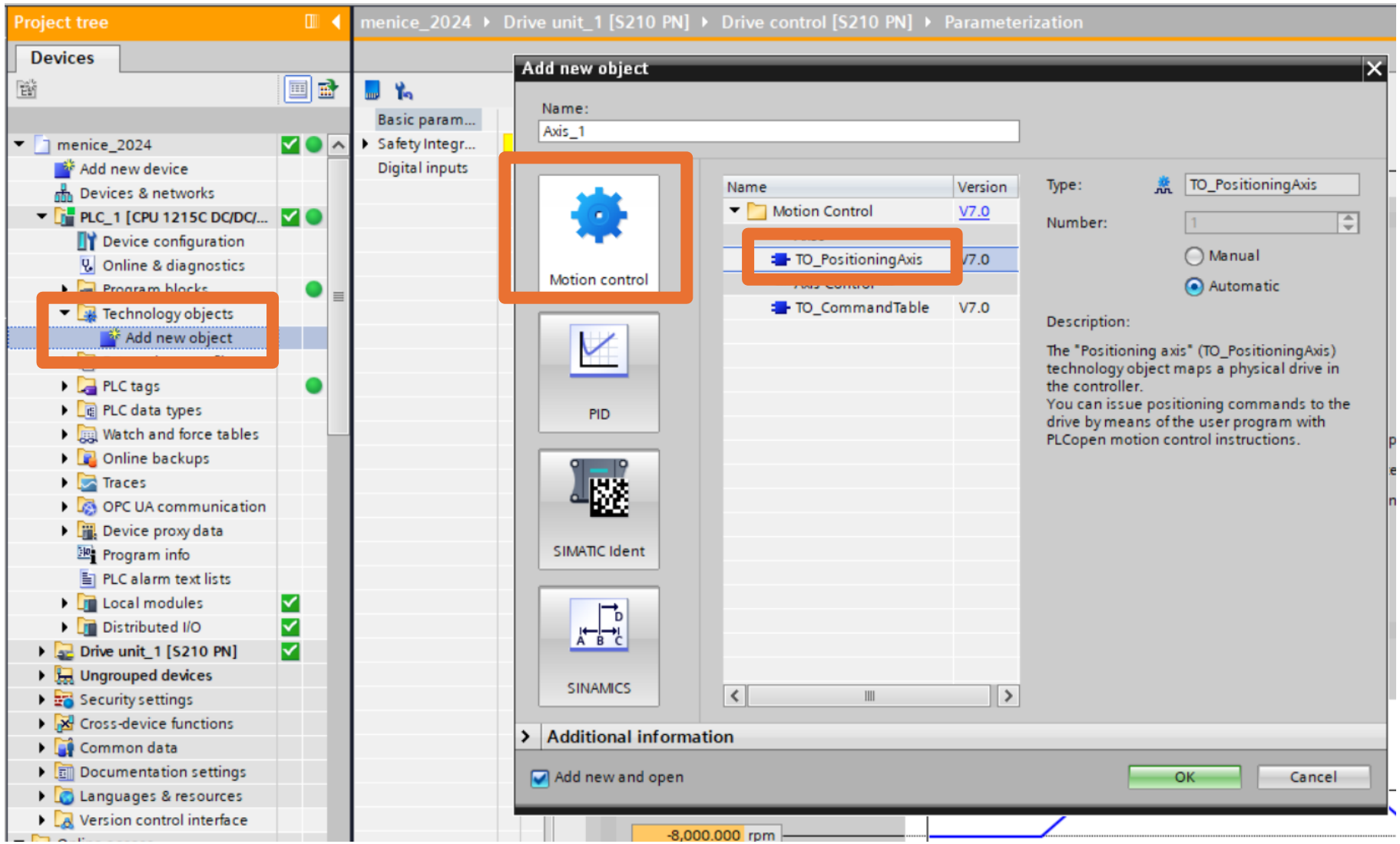
11. Verify basic settings



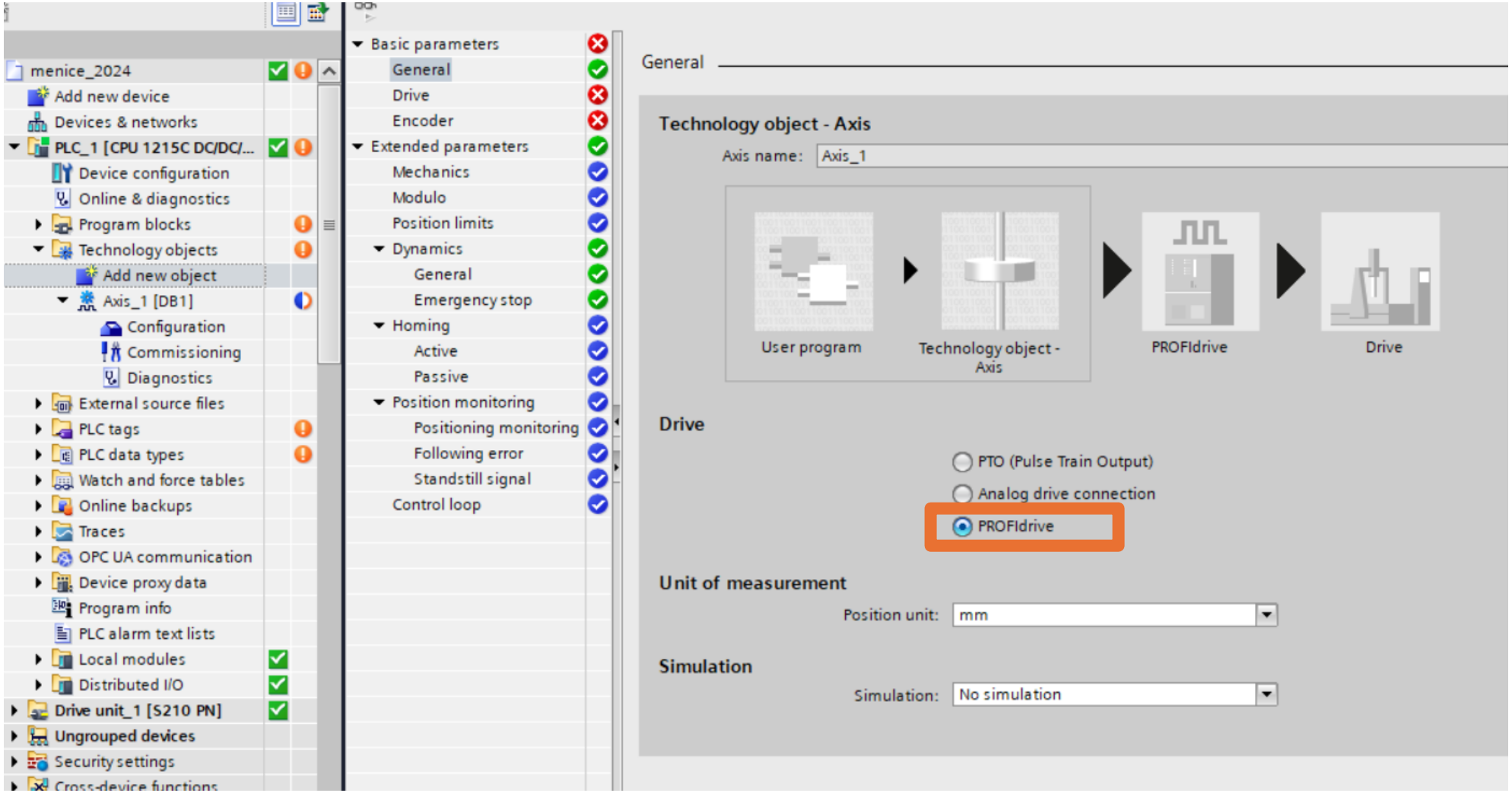
Optional: Parametrization



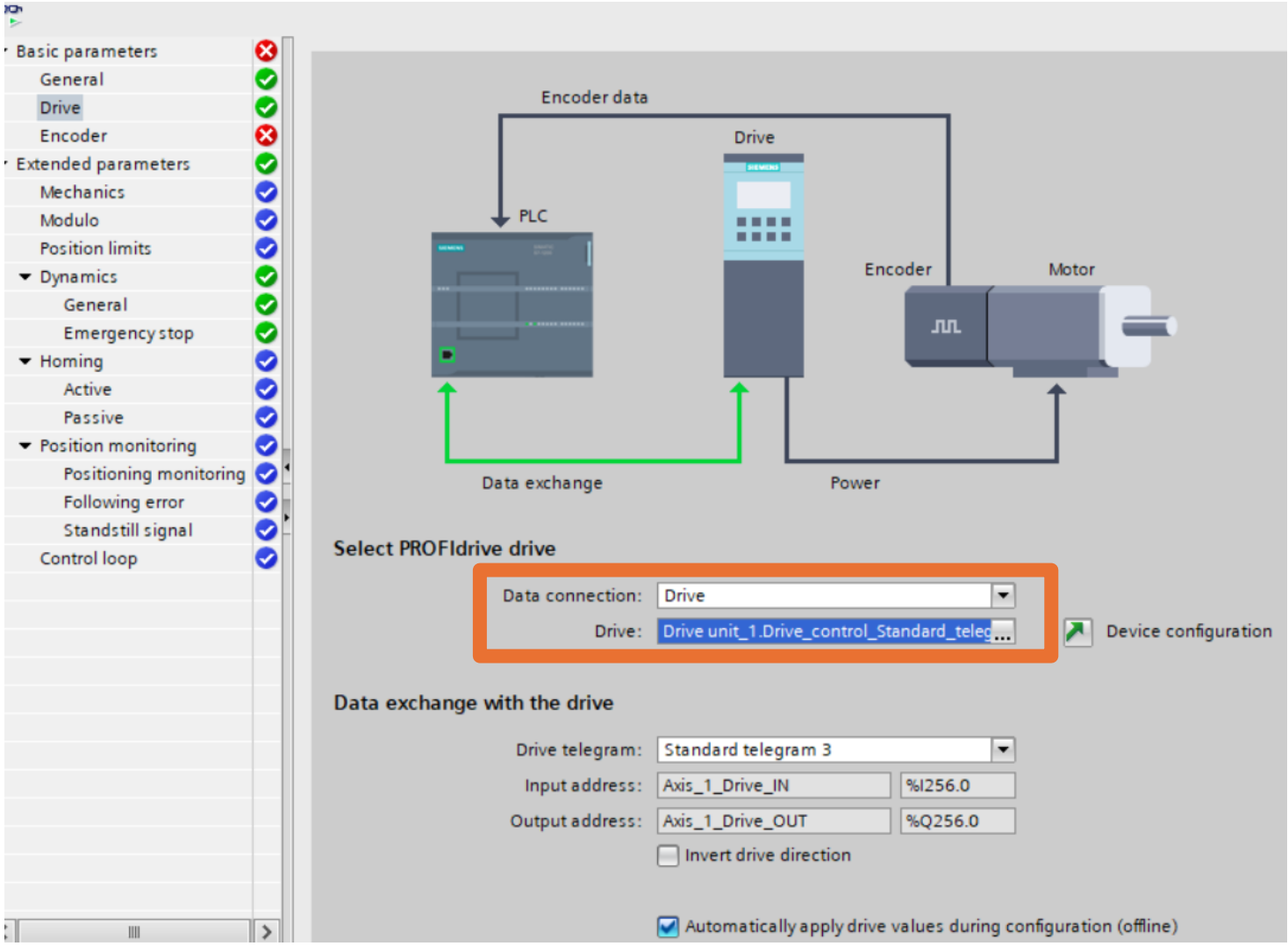
12. Add technology object: Motion axis



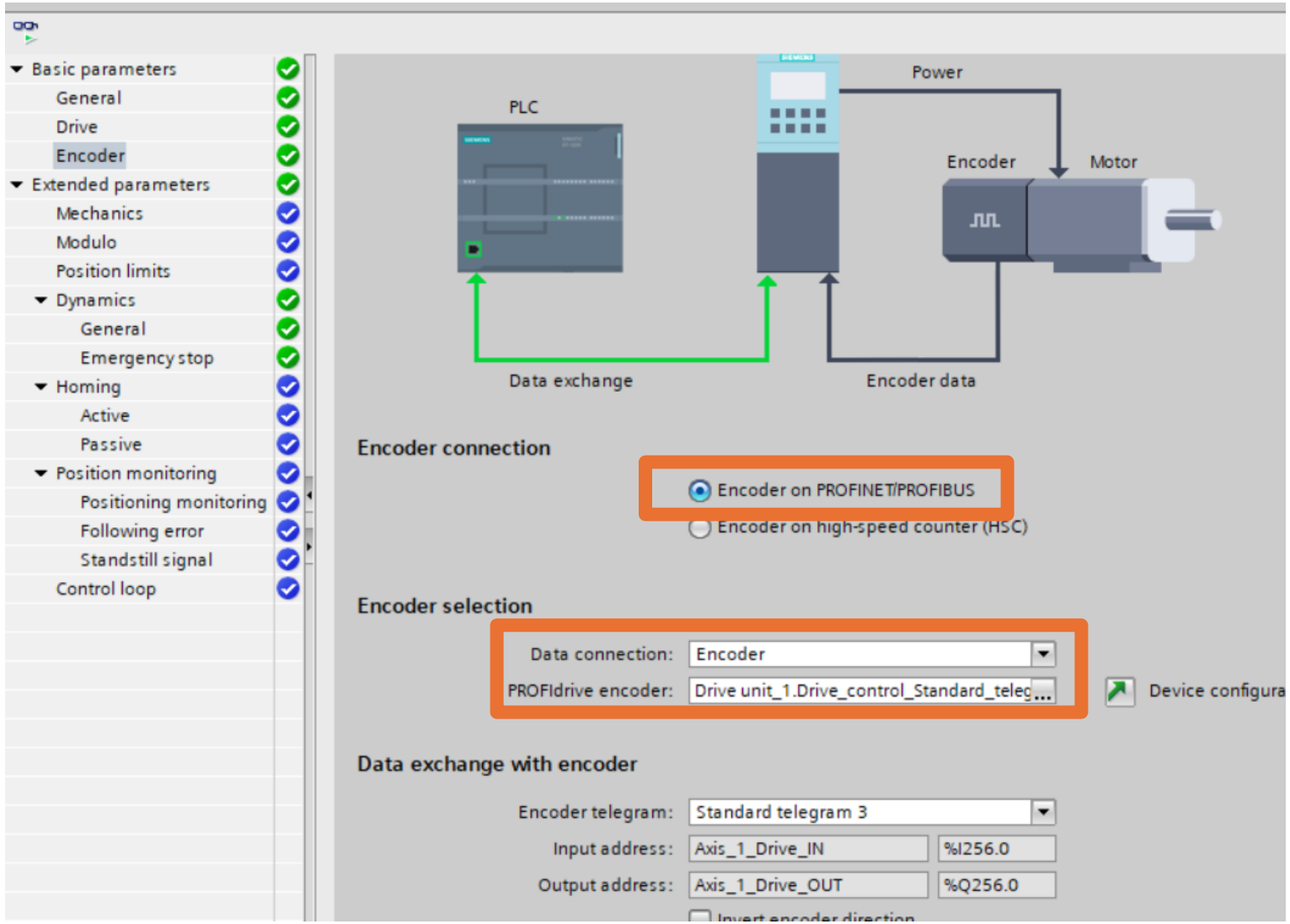
13. Set PROFIdrive



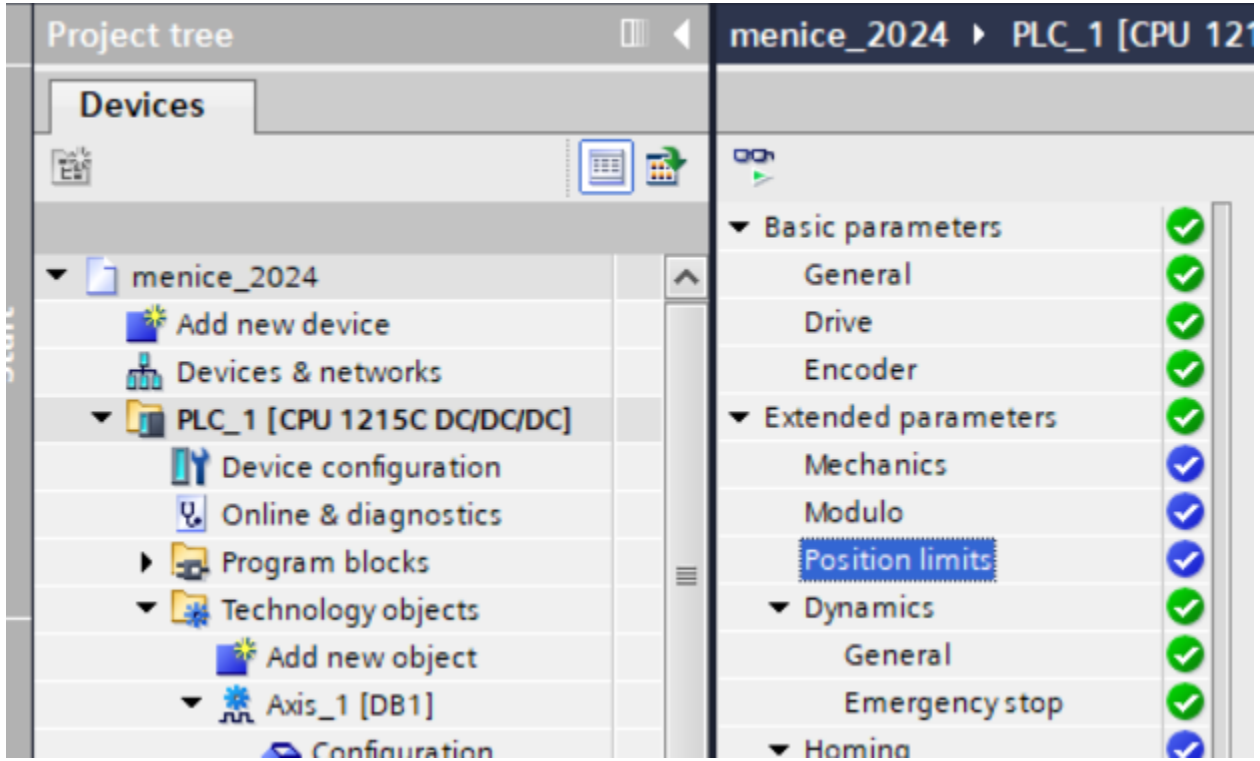
14. Select telegram



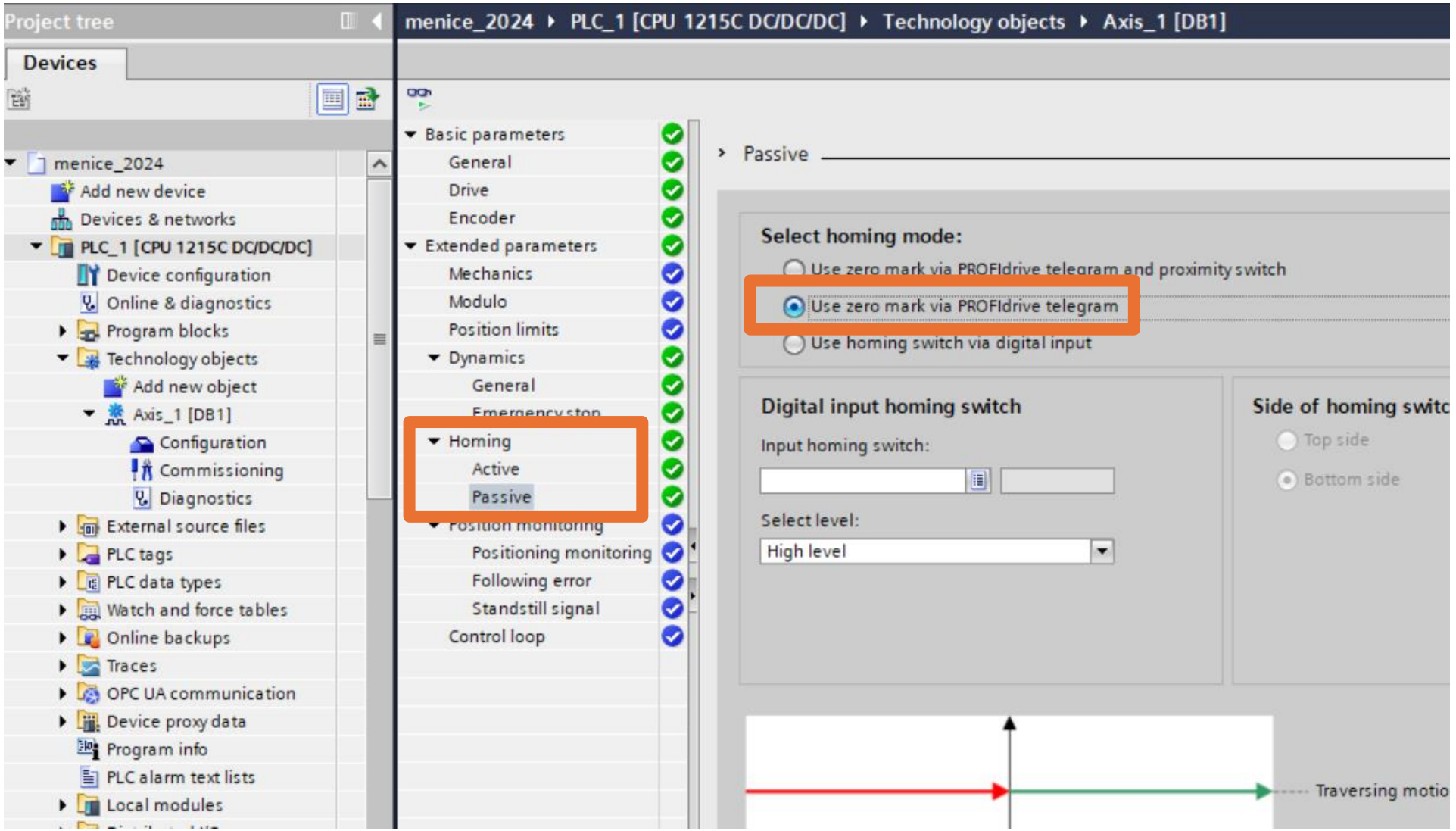
15. Set up encoder



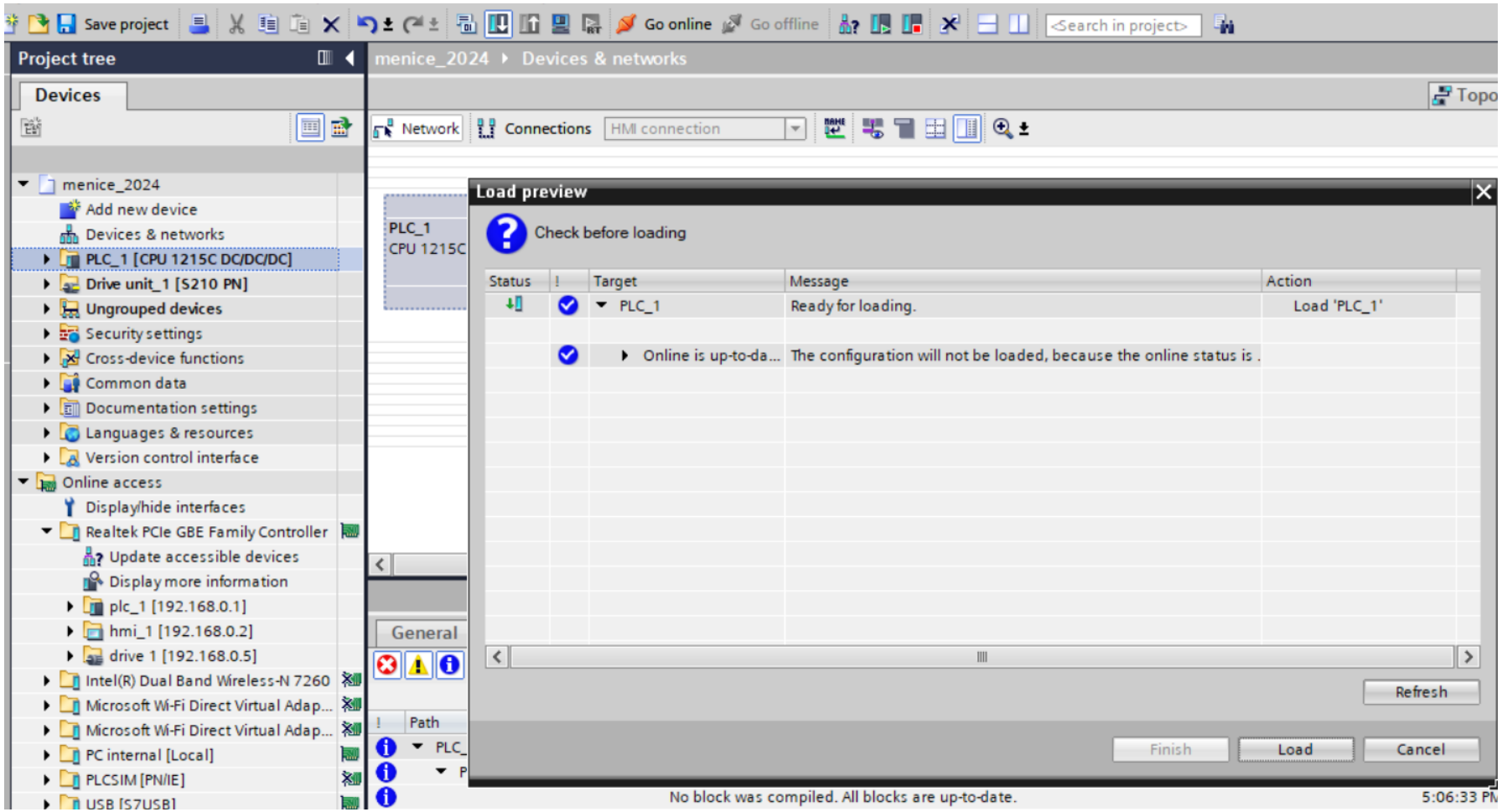
Optional: Set up additional parameters



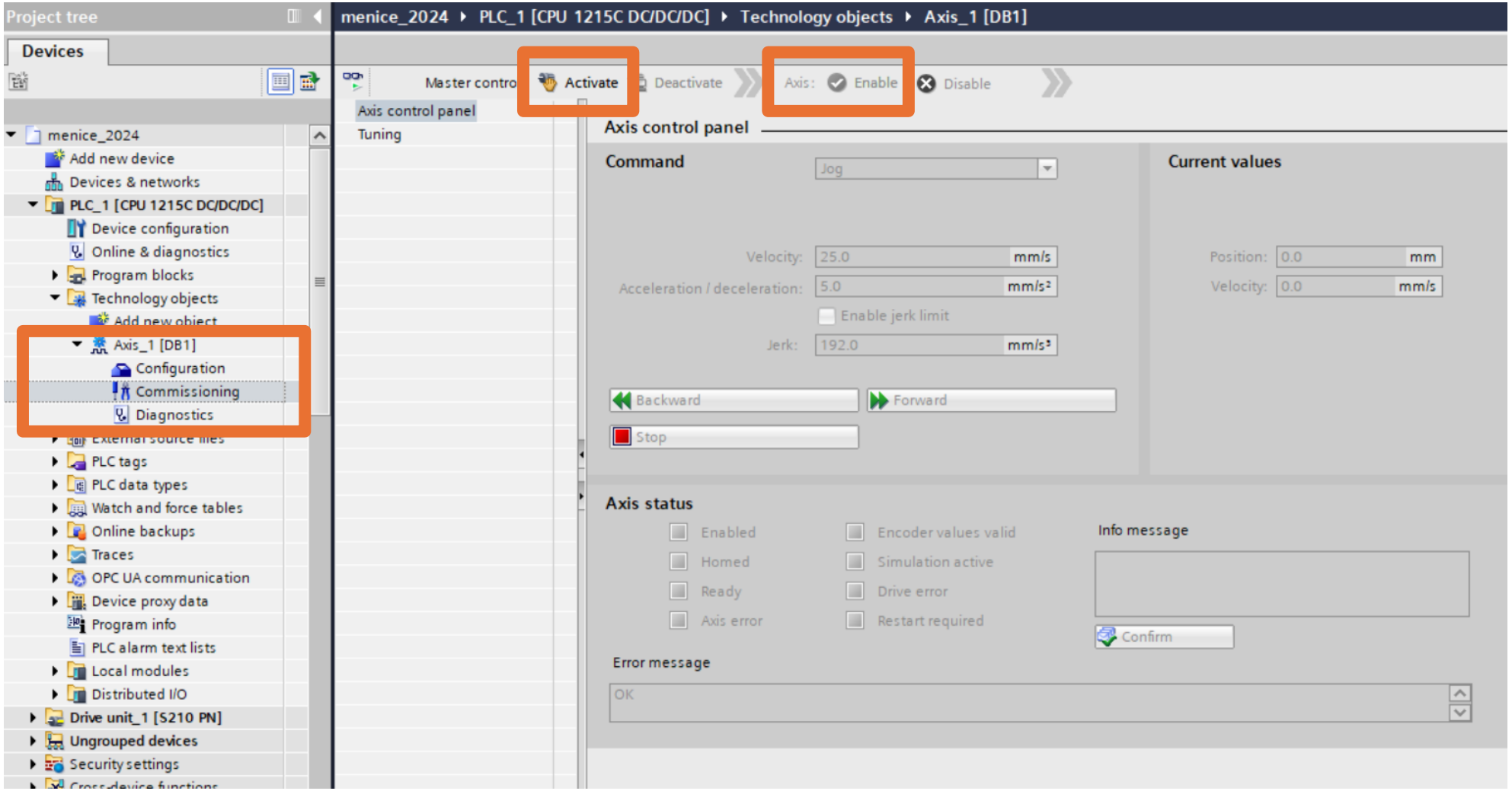
16. Set up homing



17. Upload config to PLC

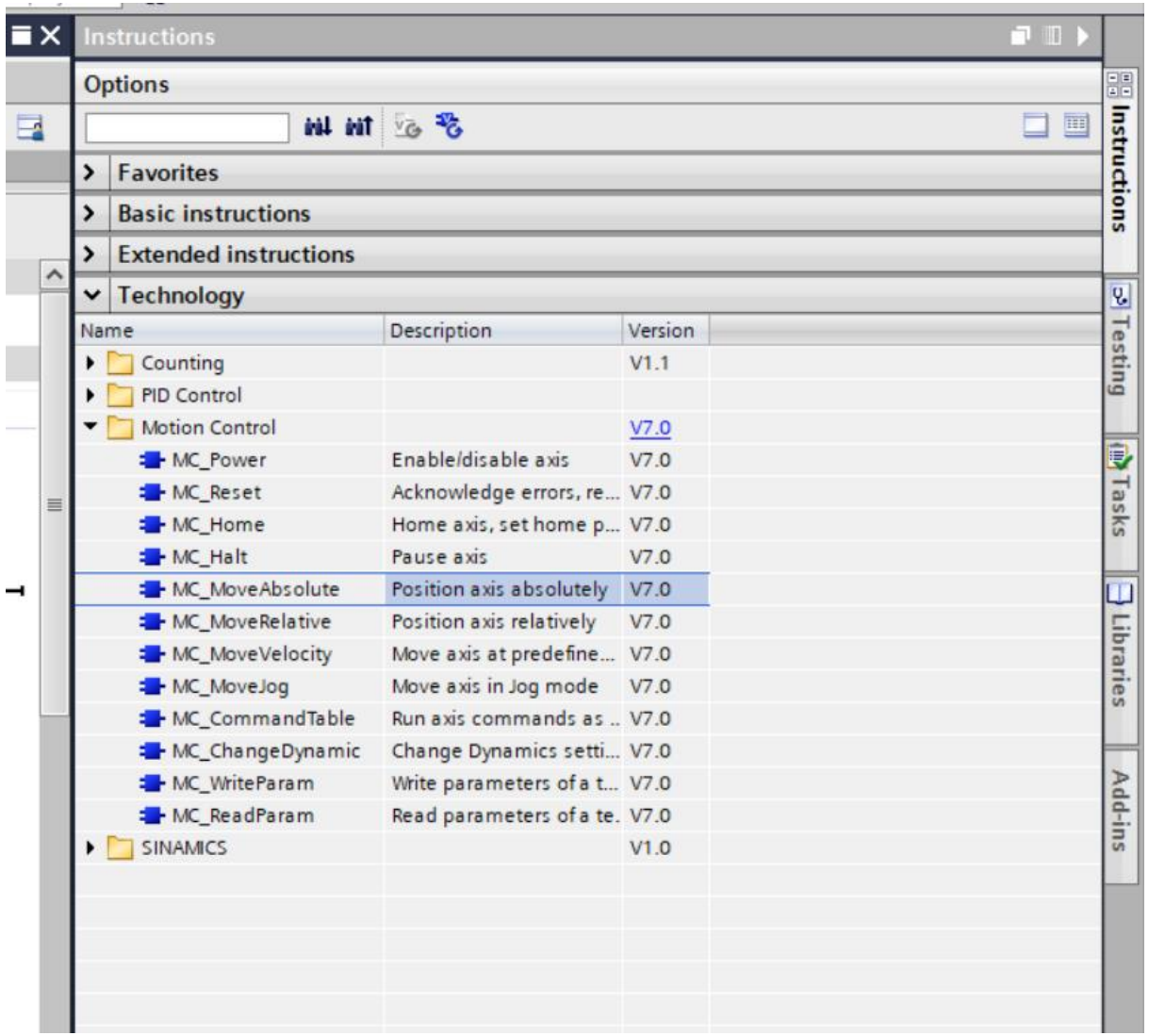


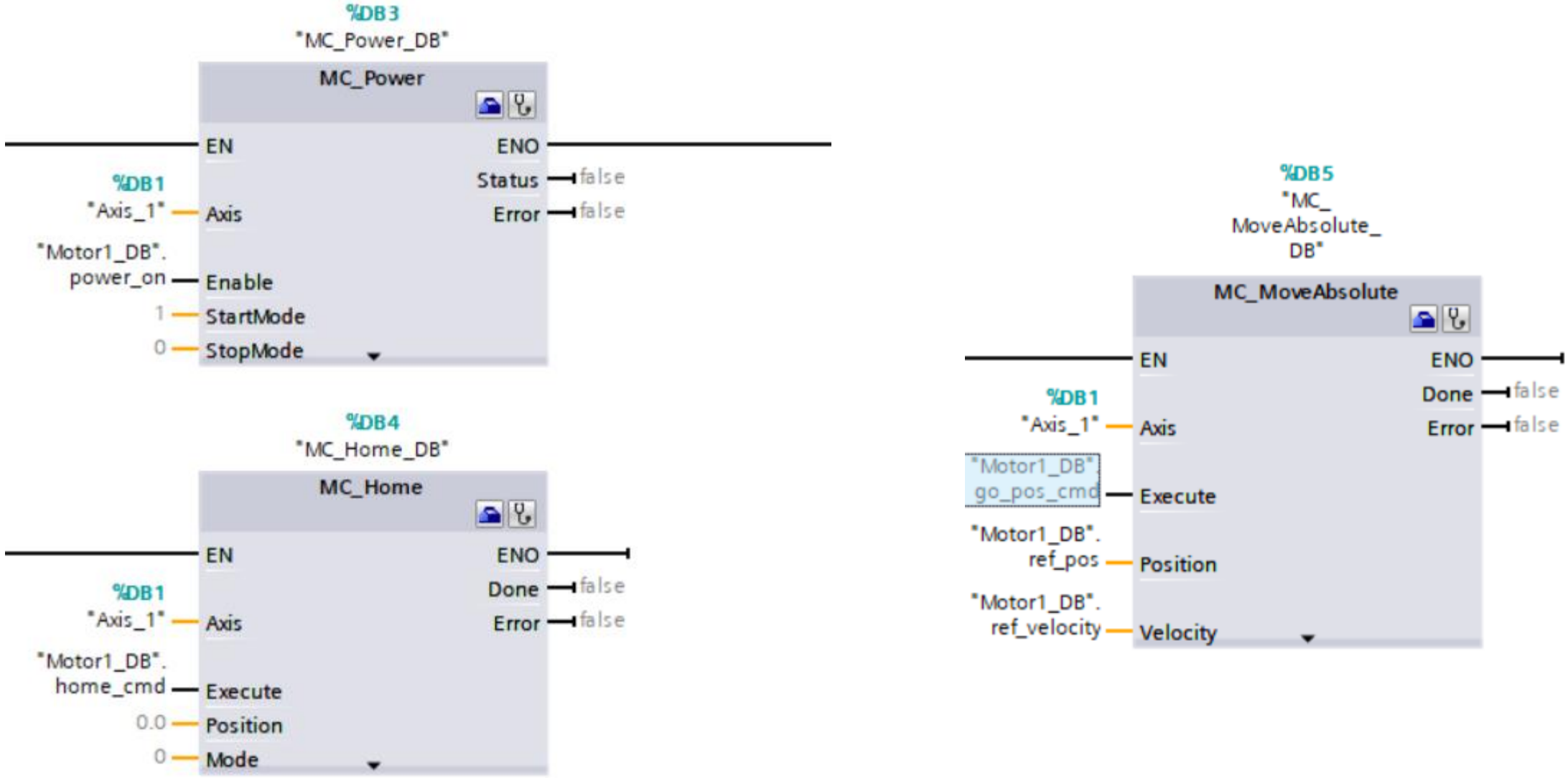
18. Verify through Commissioning



Be aware: For absolute positioning, the drive has to be homed first

19. Use Technology object in program




%DB3
"MC_Power_DB"
MC_Power
EN
ENO
%DB1
"Axis_1"
Axis
Status
false
Error
false
"Motor1_DB".
power_on
Enable
1
StartMode
0
StopMode
%DB4
"MC_Home_DB"
MC_Home
EN
ENO
%DB1
"Axis_1"
Axis
Done
false
Error
false
"Motor1_DB".
home_cmd
Execute
0.0
Position
0
Mode
%DB5
"MC_
MoveAbsolute_
DB"
MC_MoveAbsolute
EN
ENO
%DB1
"Axis_1"
Axis
Done
false
Error
false
"Motor1_DB".
go_pos_cmd
Execute
"Motor1_DB".
ref_pos
Position
"Motor1_DB".
ref_velocity
Velocity