

First fill the basic programming motor parameters of the motor; BFR, NPR, UNS, NCR, FRS, NSP. This is necessary so the drive can start the autotuning process and can have the correct feedback from the motor.

Code	Long Label	Conf0	Default Value	Min Value	Max Value	Logical address
LAC	Access level	Expert access	Standard access			3006
Simply start						
TCC	2/3-wire control	2-wire control	2-wire control			11101
CFG	Macro configuration	Standard Start/Stop	Standard Start/Stop			3052
BFR	Motor Standard	60Hz motor frequency	50Hz motor frequency			3015
IPL	Input Phase Loss assignment	Ignore	Ignore			7002
NPR	Nominal motor power	0.1 HP	0.5 HP	0.1 HP	1 HP	9613
UNS	Nominal motor voltage	230 V	230 V	100 V	240 V	9601
NCR	Nominal motor current	0.8 A	1.9 A	0.8 A	4.9 A	9603
FRS	Nominal motor frequency	60 Hz	60 Hz	10 Hz	800 Hz	9602
NSP	Nominal motor speed	1600 rpm	1720 rpm	0 rpm	65535 rpm	9604
TFR	Max frequency	72 Hz	72 Hz	10 Hz	599 Hz	3103
STUN	Tune selection	Default	Default			9617
ITH	Motor Thermal current	1.9 A	1.9 A	0.6 A	4.9 A	9622
ACC	Acceleration ramp time	3 s	3 s	0 s	999.9 s	9001
DEC	Deceleration ramp time	3 s	3 s	0 s	999.9 s	9002
LSP	Low speed	15 Hz	0 Hz	0 Hz	40 Hz	3105
HSP	High speed	40 Hz	60 Hz	15 Hz	72 Hz	3104

To perform the autotune it's necessary to activate the "Control Panel". You will click on the square with the gear and then click on "Activate" in the window that opens at the bottom.

Command: Active

Rotation: Forward

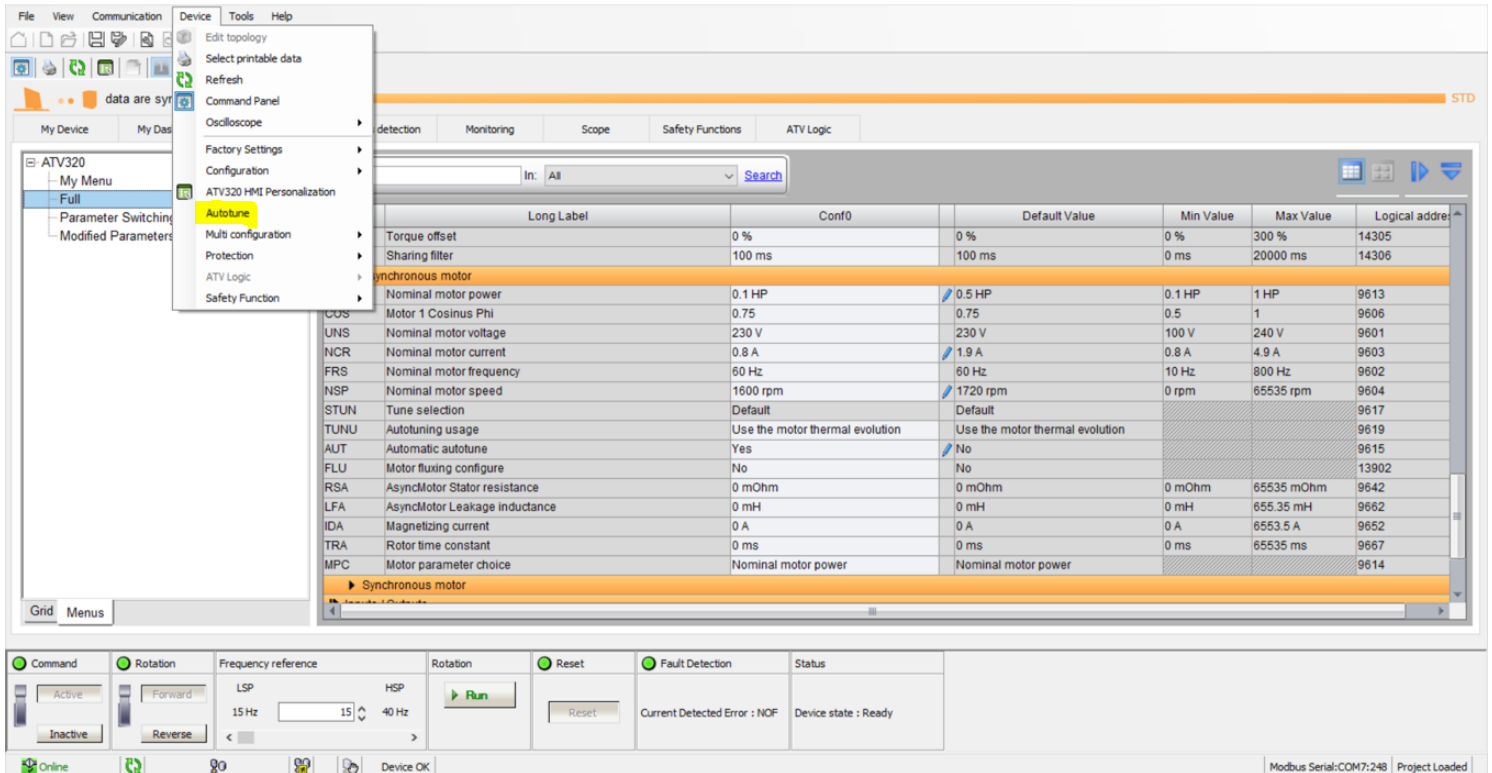
Frequency reference: LSP 15 Hz, HSP 40 Hz

Reset: [Reset]

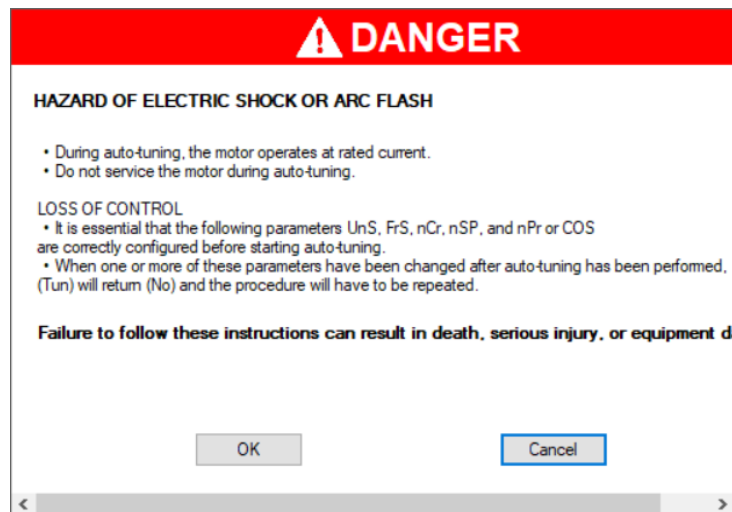
Fault Detection: Current Detected Error : NOF

Status: Device state : Ready

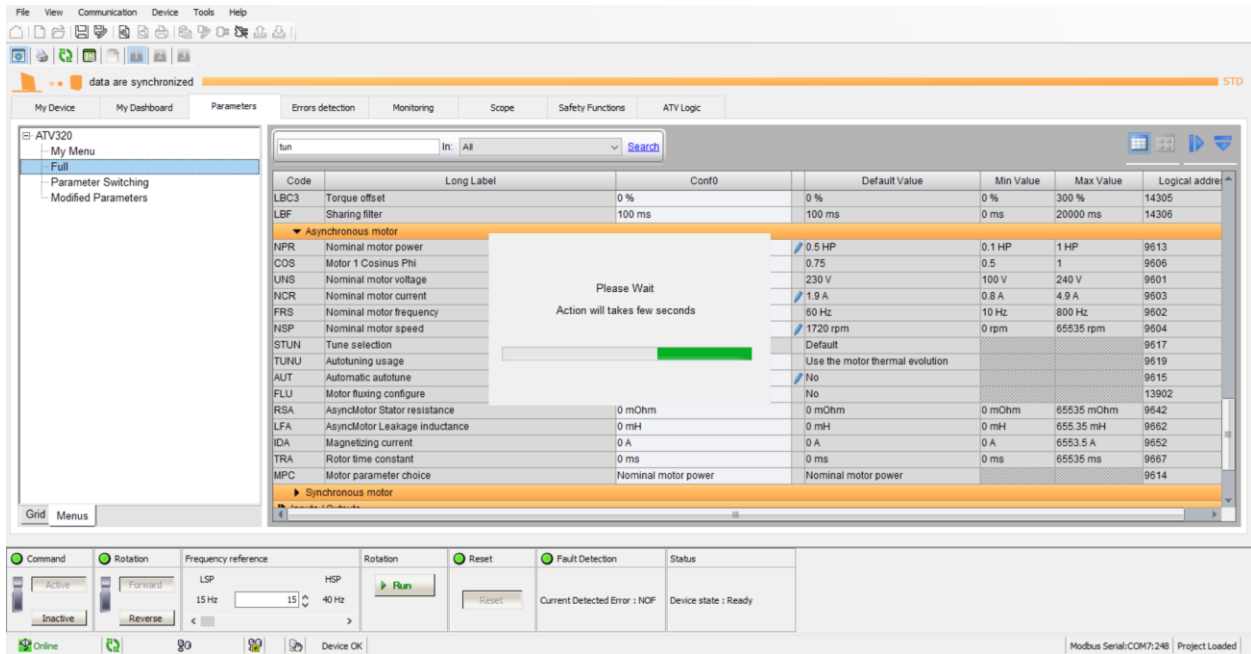
When the control panel command is active it will turn the circles from yellow to green. Then you can go to the “Device” menu and will select Autotune (highlighted), this option of Autotune is only available when the control panel command is active.



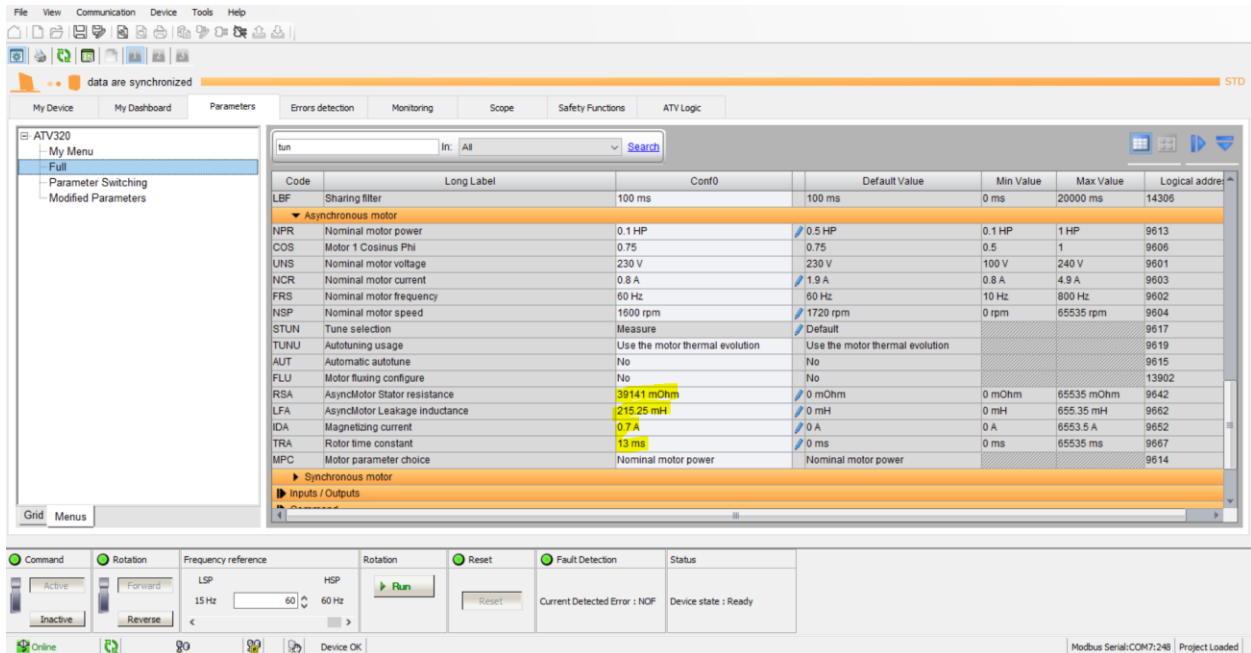
It will show the “DANGER” window that indicates that the motor will operate at rated current and the motor will rotate and will make some noise.



This autotune will take a couple of seconds.



After the autotune is complete, you can see that the parameters inside Motor control> Asynchronous motor (if it's an asynchronous motor) will be updated (e.g., RSA, LFA, IDA).



**This test was performed with a Schneider Demo and the motor was too small (0.03HP) and there were some complications with the process. With the correct size motor and with the correct setup of the basic motor parameters there should not be any issue.