# Application Note



Melexis-Start-to-Run User Manual

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### 1. Be Aware

The software will use the maximal current given as input, so make sure you type in the correct maximal current and shunt value.

## 2. How to correctly connect everything

#### Reference supply: 12V.

Pay attention to the supply connection of the high power and low power.



Figure 1: EVB-81325-1xx High Power

The upper left corner has the supply connections and the LIN-IN pin for LIN-communication. The lower left corner has a jumper which connects the 2 left pins. In the upper right corner is the shunt resistance, this resistance (in  $m\Omega$ ) is required as input of StartToRun. In the right, the connections to the motor are made (phases U, V and W).

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Figure 2: LIN Master

On the right, the USB connection goes to your PC. On the left are the (12V) supply connections and the LIN communication (which is connected with the LIN-IN pin on Figure 1).

# 3. What if the motor runs in the wrong direction?

Switch the V and W connections (See Figure 1 on the right).

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