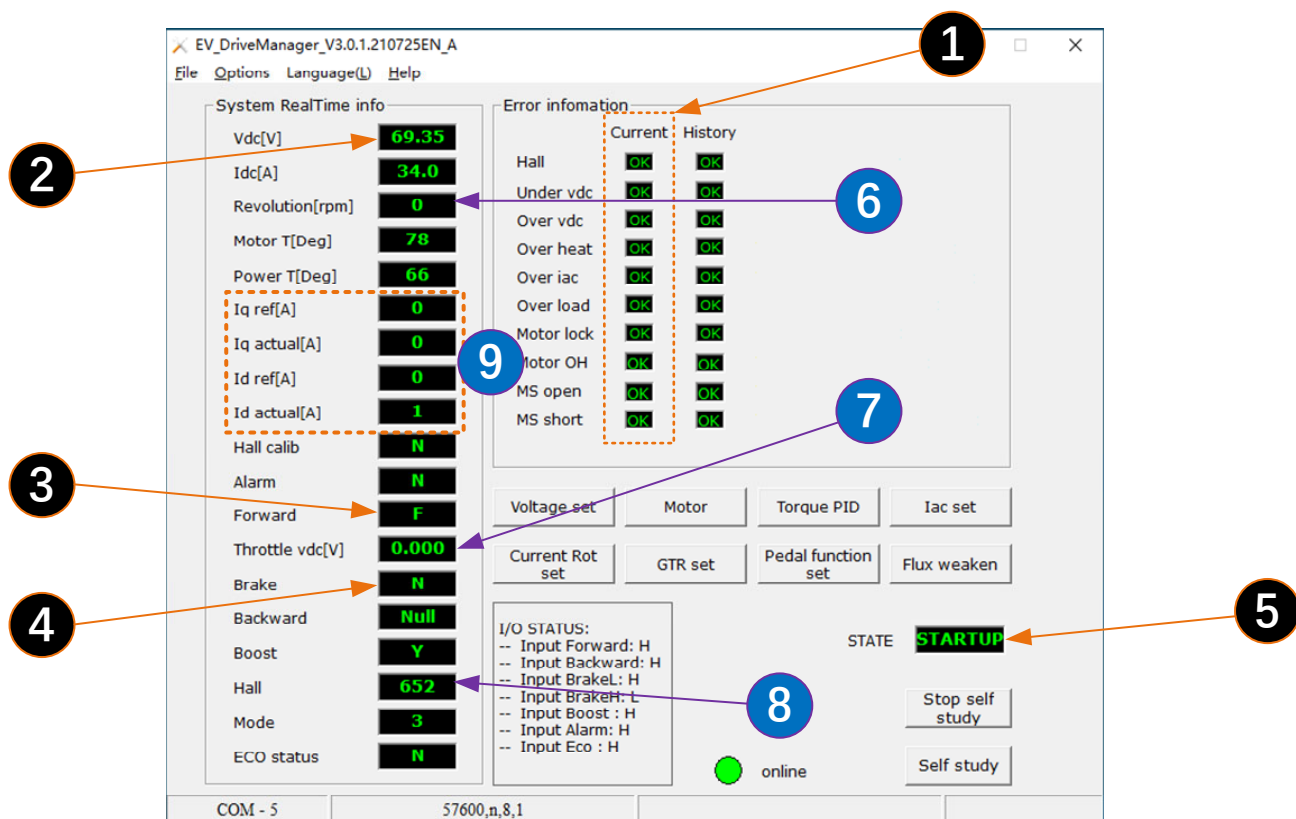# Basic judgment of running motor system with DriveManager

Static check

1. Error of current status should be ok, no fault

↓

2. Vdc should be same of the battery voltage

↓

3. Forward should stay in **F**

↓

4. Brake should stay in **N**

↓

5. STATE should be **IDLE**, if the vehicle use a **P** enable switch, should be **STARTUP**

↓

Dynamic check

6. Turn the rotor, RPM will appear and +value means the motor rotate for forward, - value means the motor rotate for backward

↓

7. Repeat rotate the throttle, the value will increase and decrease from 0.x~4.x; the STATE will change from STARTUP to RUN

↓

8. The Hall sensor monitor should be change while turn the rotor.

Hall Sensor will change as >>5>1>3>2>6>4>>

Magnetic Encoder will show the value of its position depend on the IC model

↓

9. Rotate the throttle, both the **ref**erence and **actual** value will appear, ⑥ should indicate the rotate speed, and the motor is running

↓

To drive the motor and make the system running into a more satisfied status, please refer to **AN18091801**