

## triacDriver state diagram

this state represents all other states than idle state. It was introduced to handle zeroPassDown, startup and external fired reset events. This would normally be modelled more sophisticated using substates, but is this possible when using VHDL ?

These two states form a so called trigger rail. Trigger rails are needed for heavy inductive loads. A triac fire duration of 5 us and a delay of 100 us is ok as we could observe during testing of joesTriac project (gives approx. 10 triggers per milliSecond). Times can vary depending on the load type. Trigger rails are not needed for pure ohmic ac resistance

