indmc_free_2.grc

indmc_free_2 simulates free accelration of an induction motor. The subcircuit s_indmc_2 – which uses indmc2a.xbe and indmc2b.xbe internally – is used to model the induction motor. Note that the supply voltages v_a, v_b, v_c are converted to v_{ds} v_{qs} internally in the subcircuit. The machine speed, torque, and terminal currents can be plotted versus time.

The subcircuit s_indmc_2 makes the machine currents i_a, i_b, i_c available for control purposes. In this example, however, they are only used for plotting.