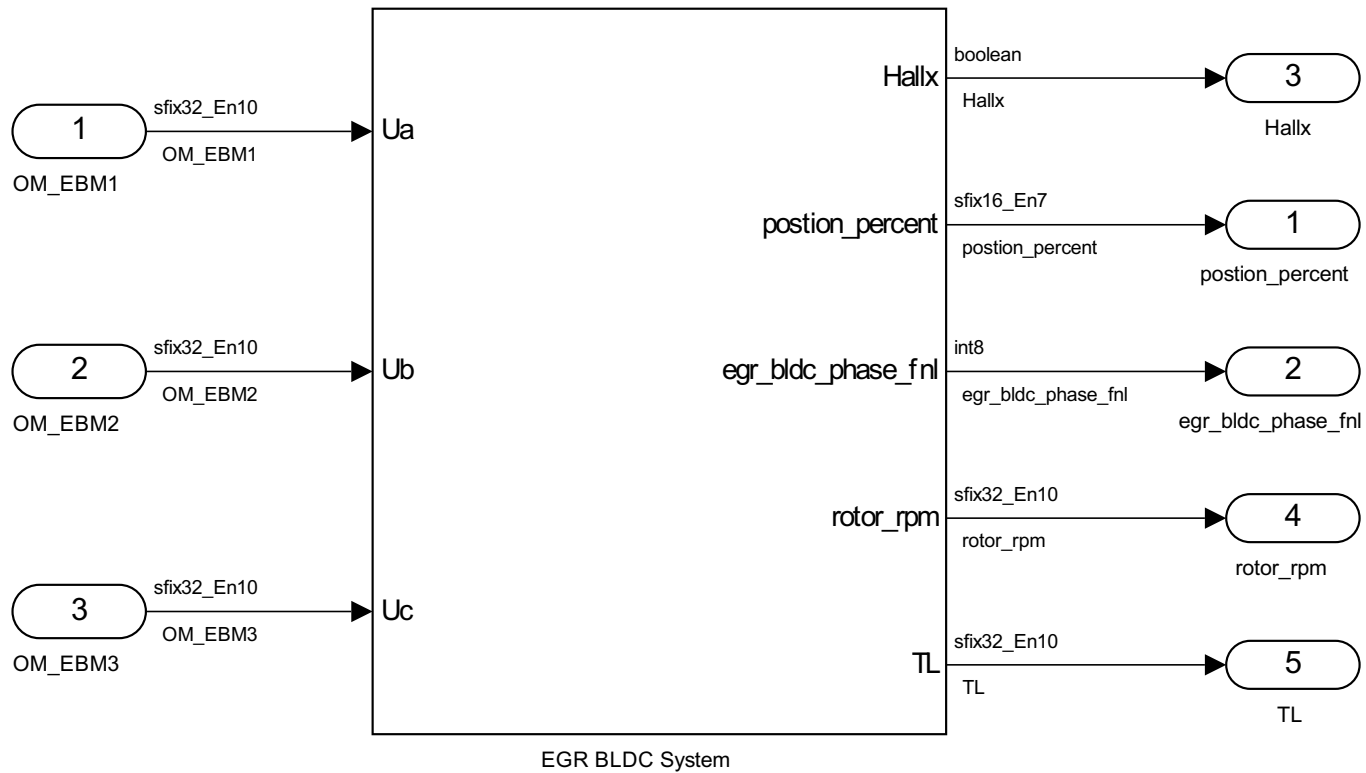
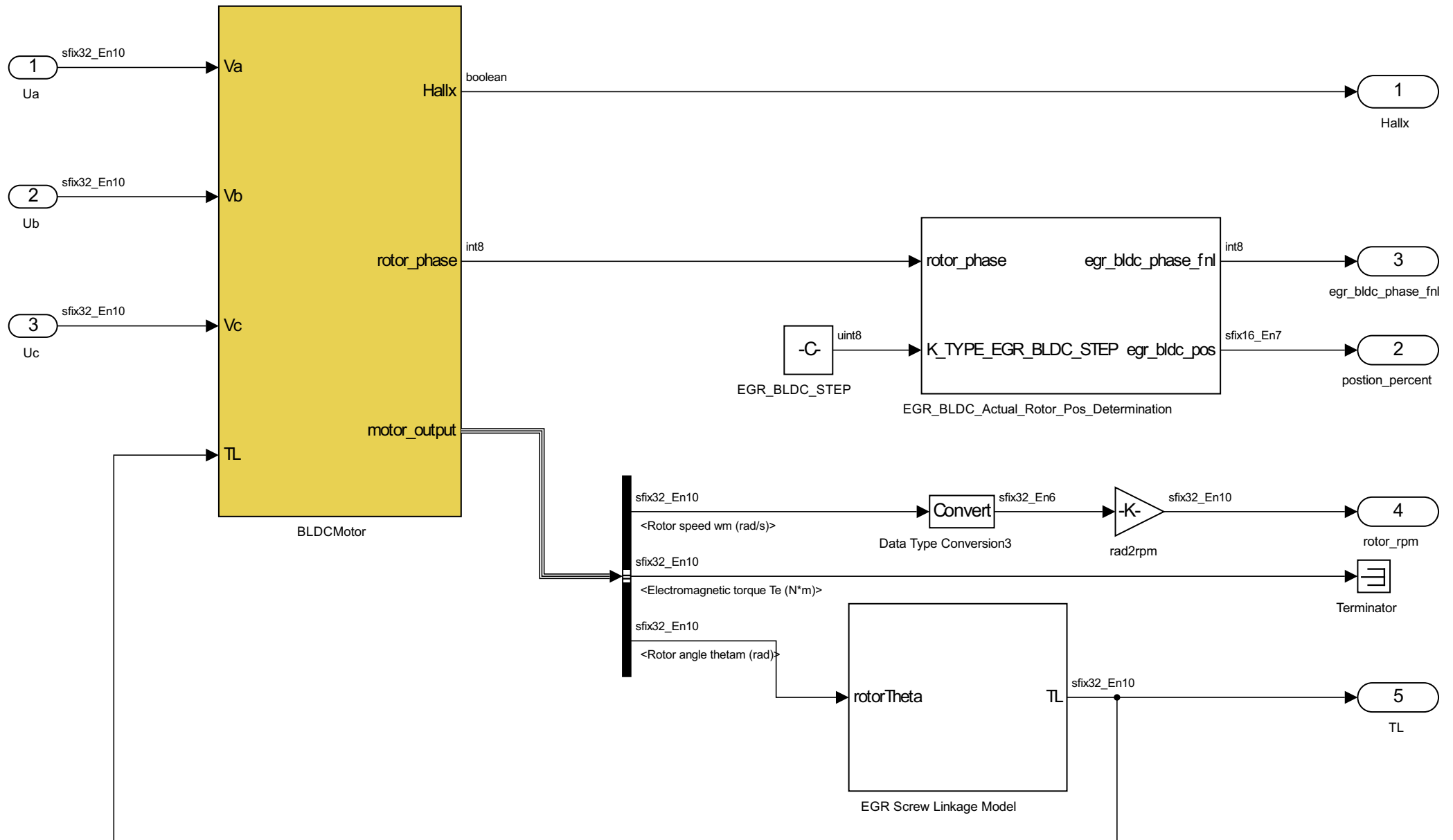
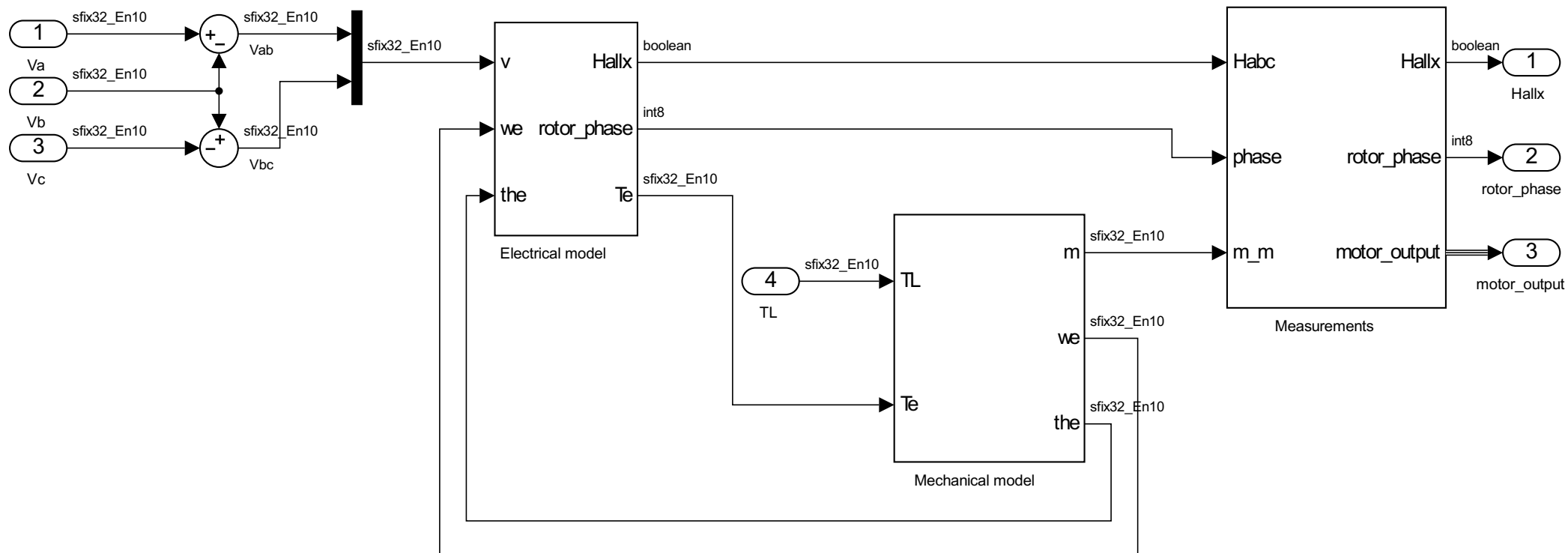


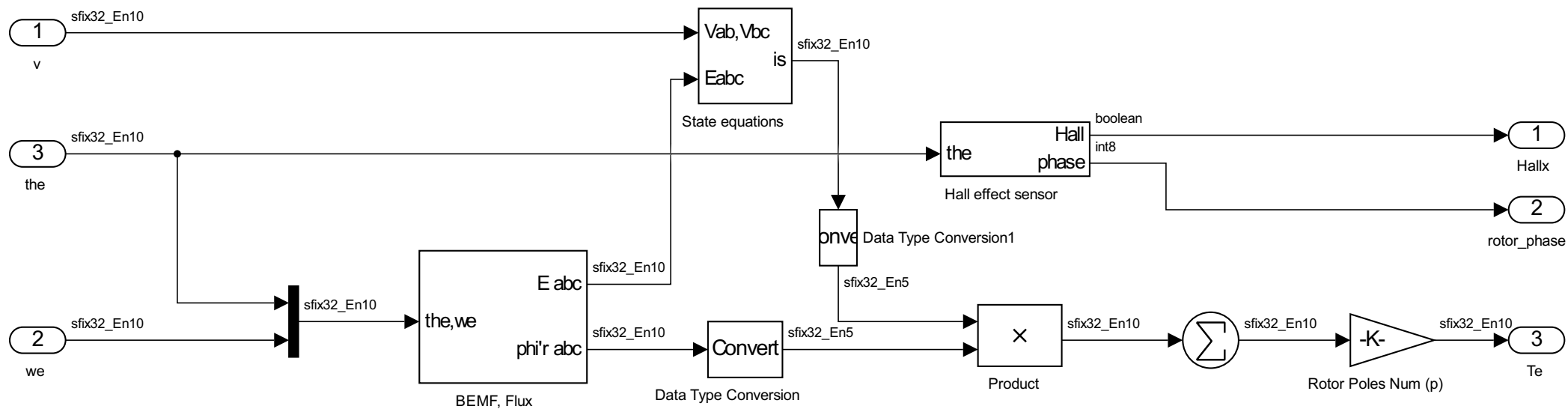
EGR Emulator System

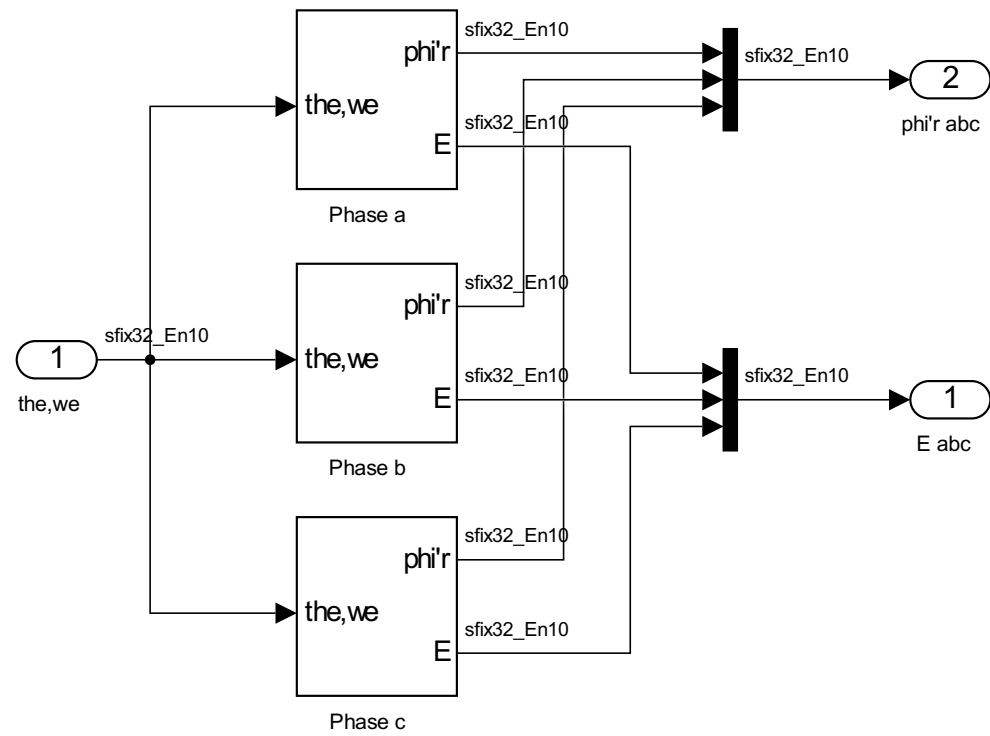


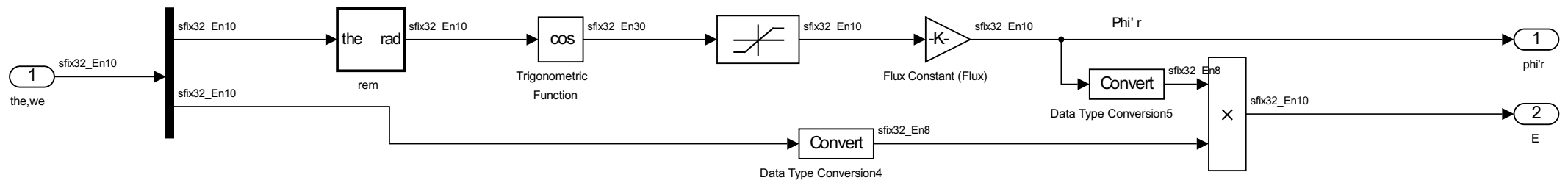
EGR BLDC Motor

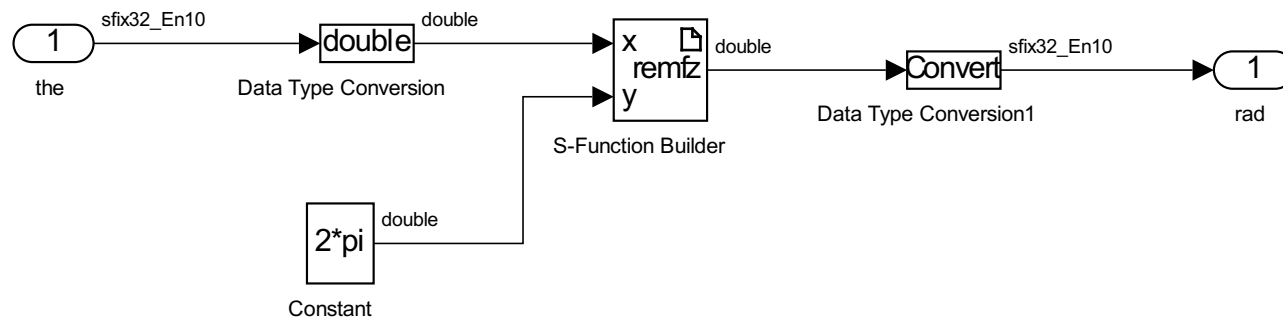


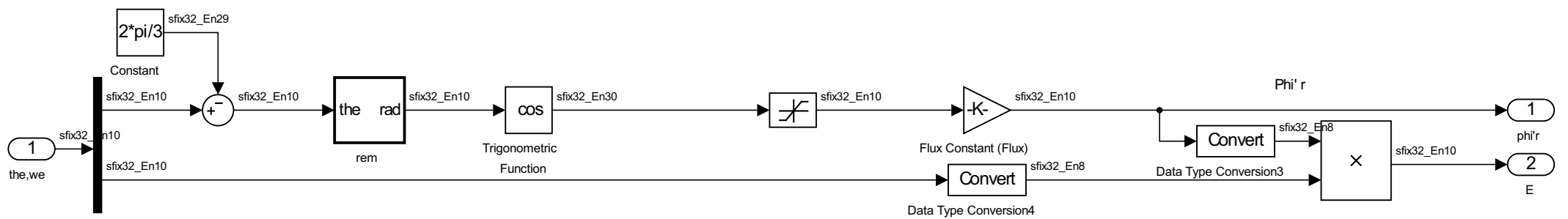


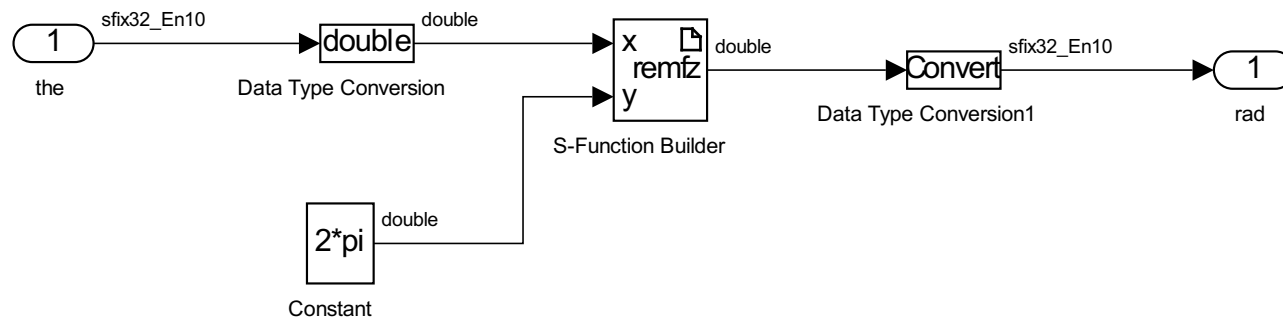


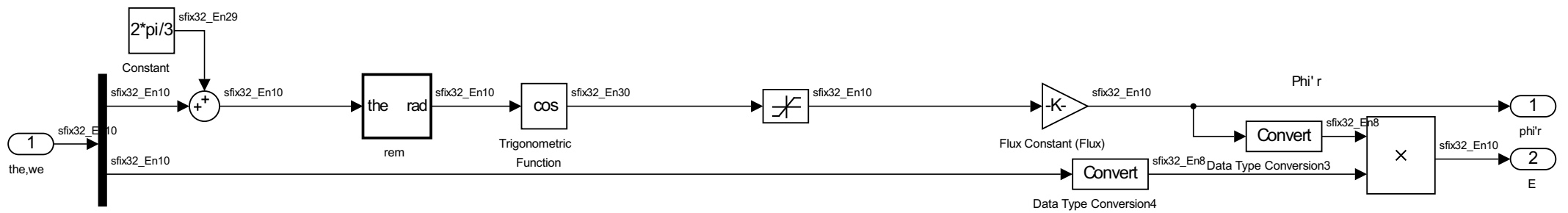


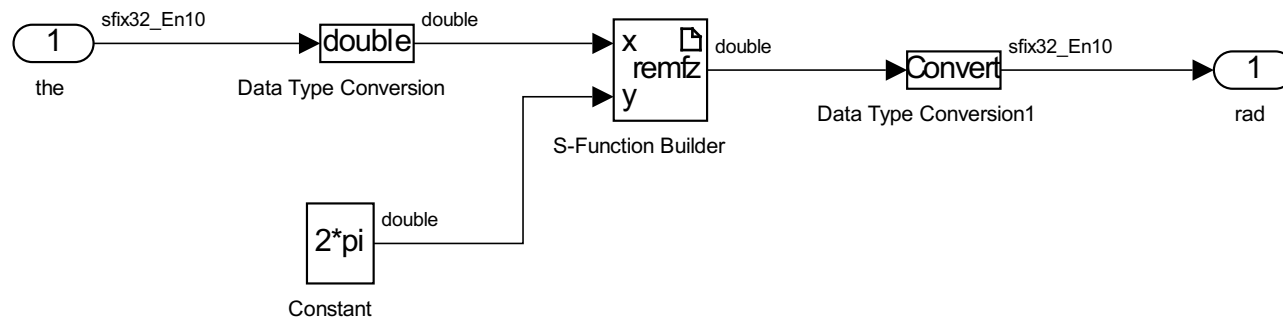




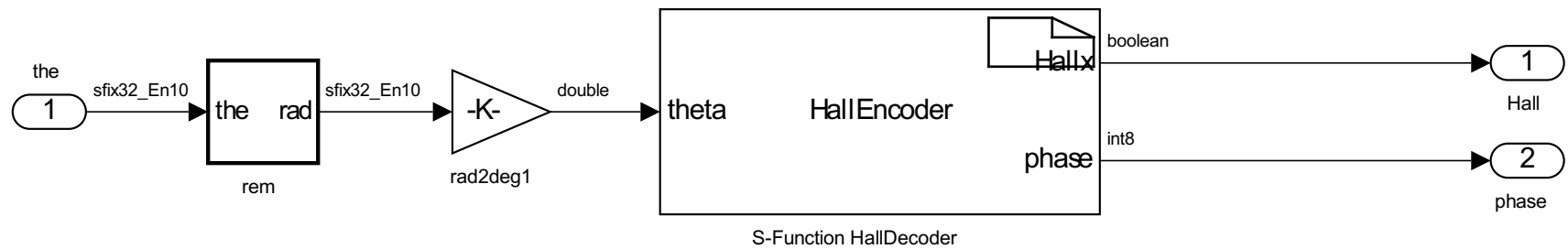


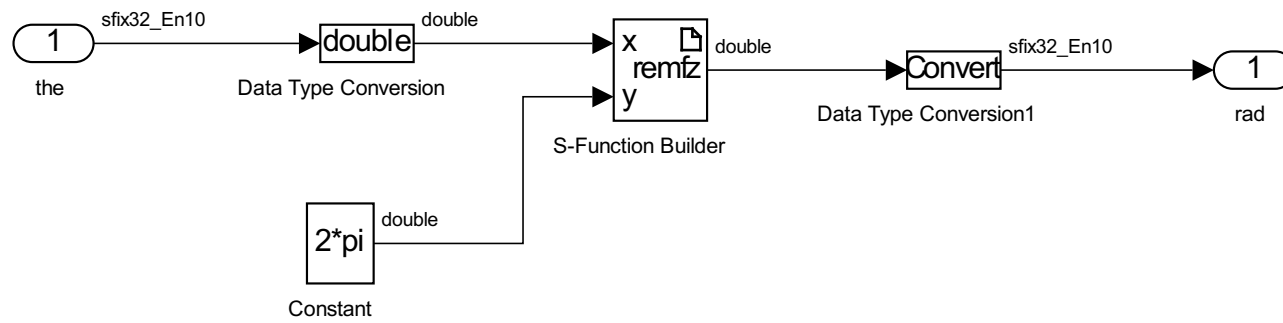


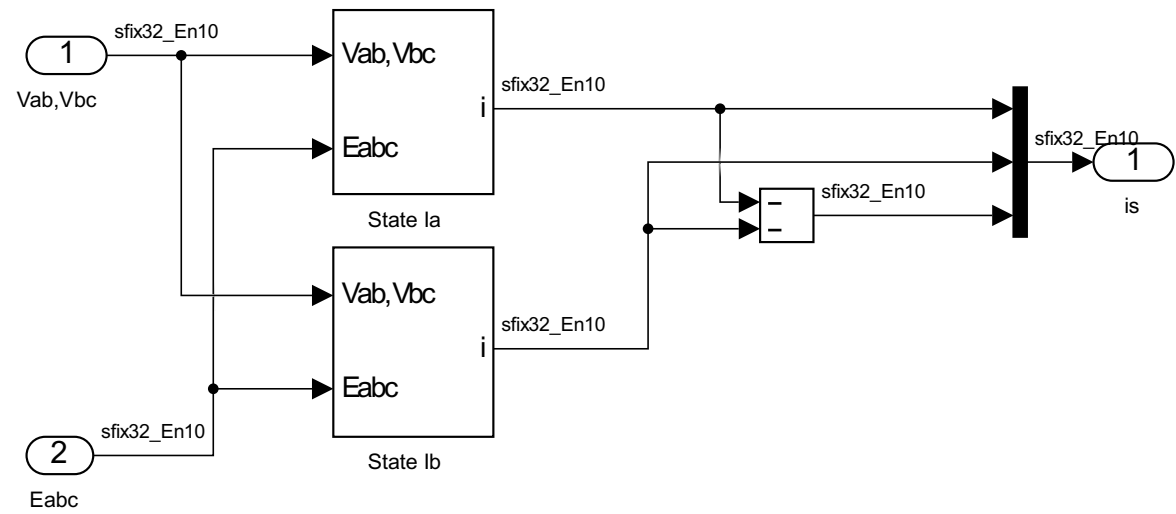


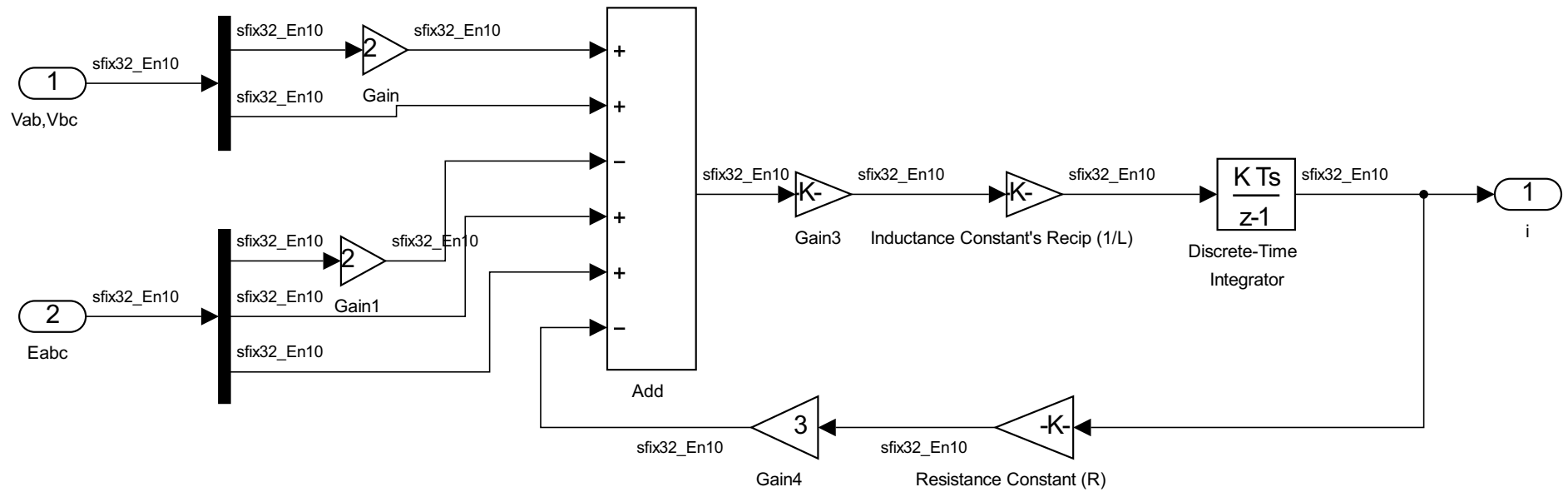


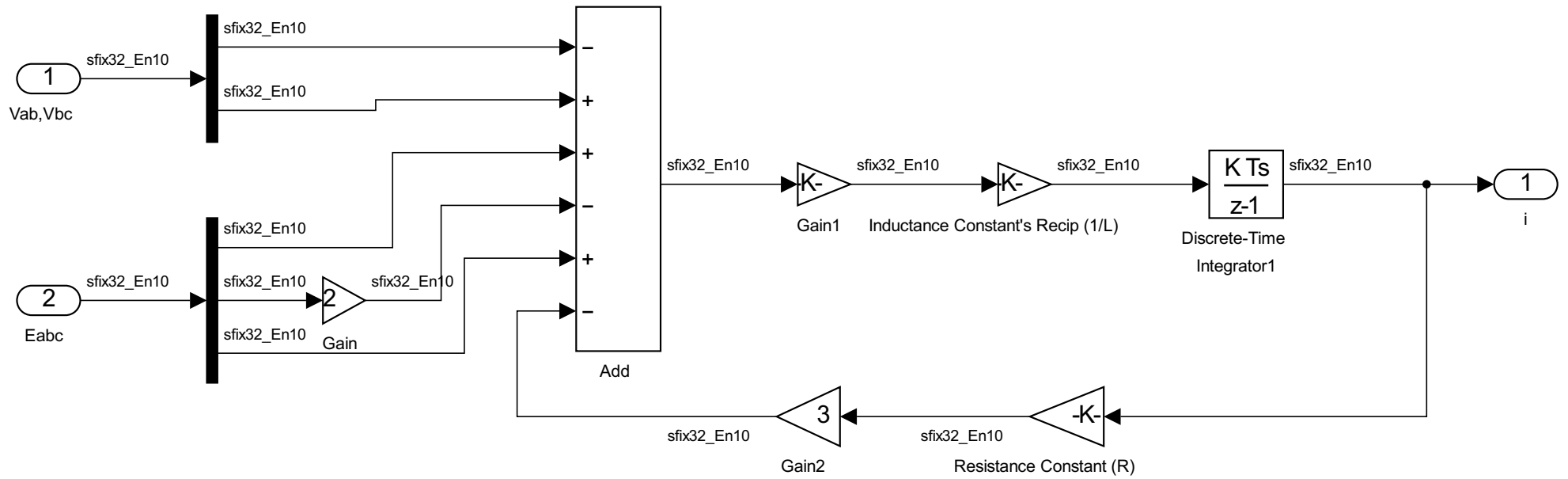
BLDC Motor Hall Encoder

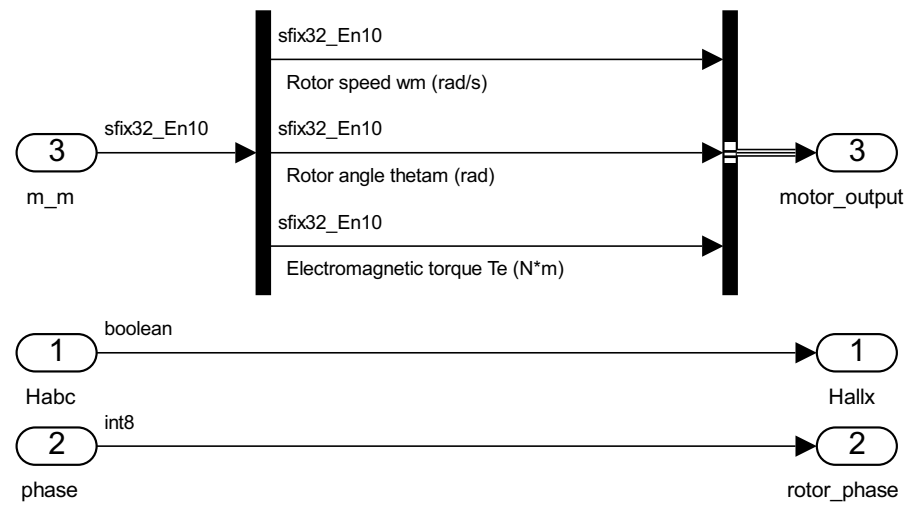


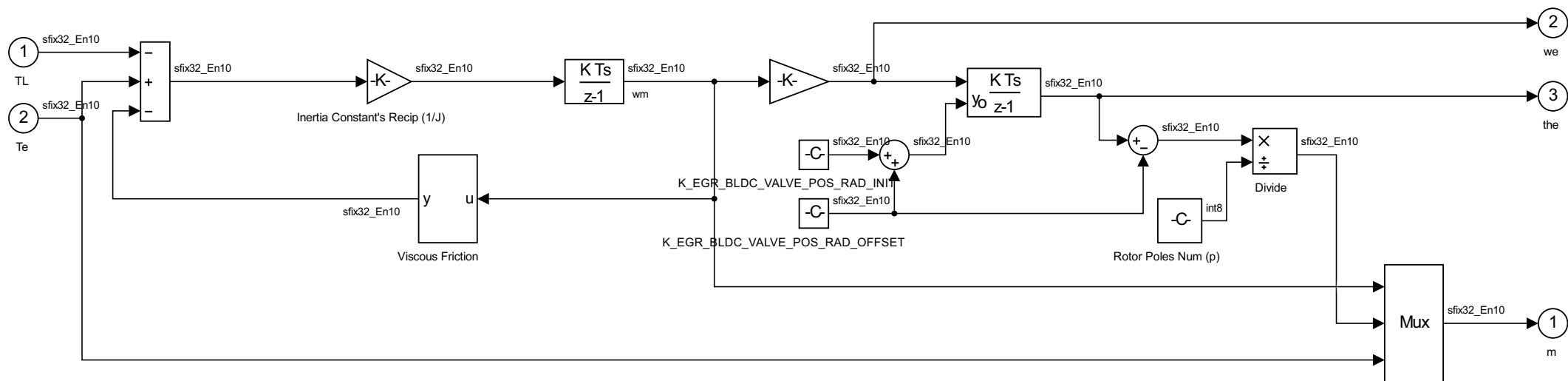


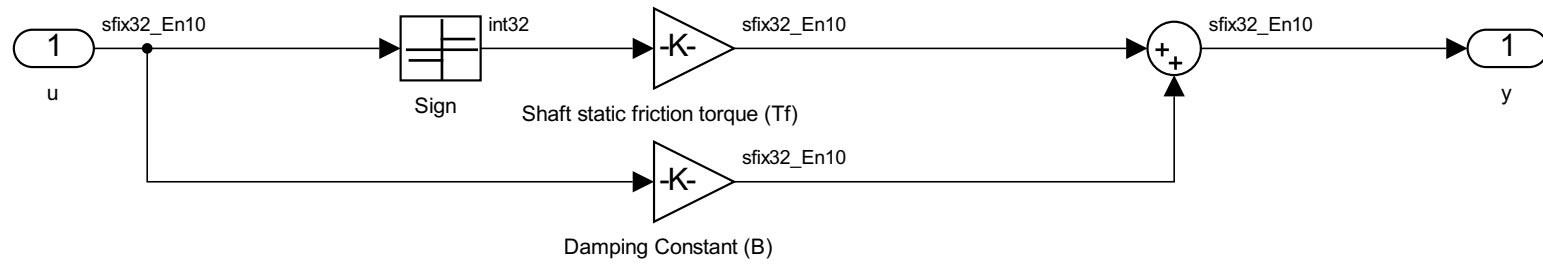






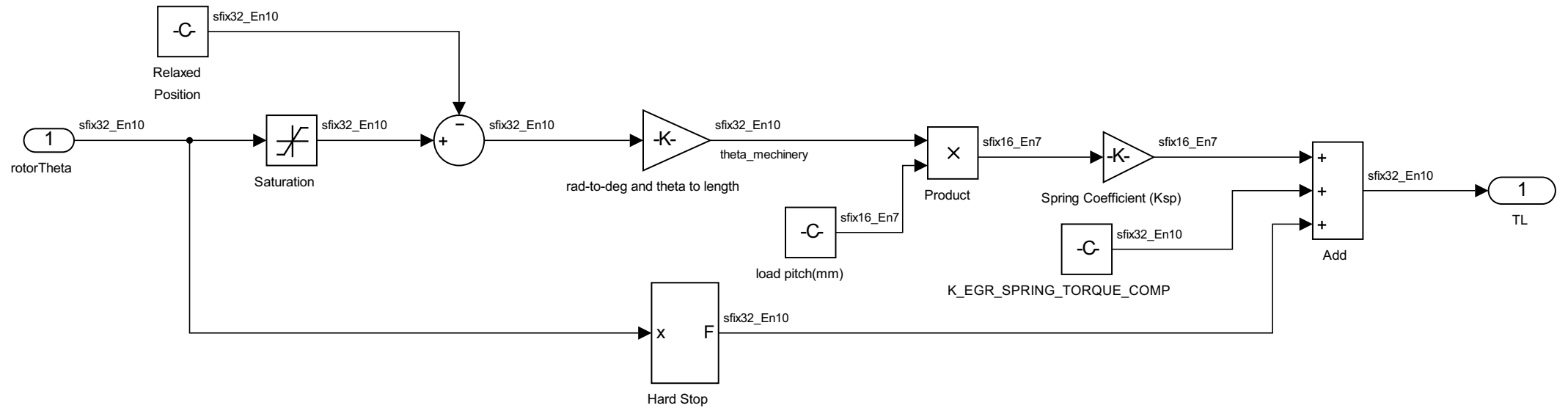




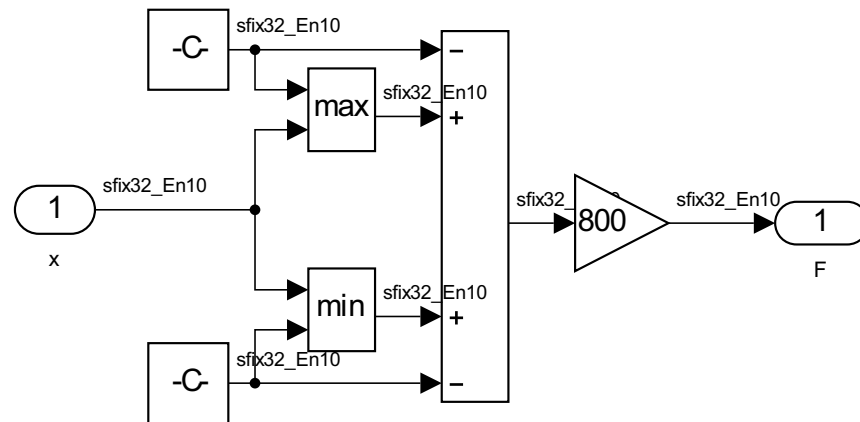


$$y = \text{sign}(x) * (\text{Gain} * \text{abs}(x) + \text{Offset})$$

EGR Screw Linkage Model



Spring Hard Stop



EGR Actual Position Determination

