

Doors\_Unlocking  $q_2 = \neg (p0 = and(Tr=0, Mv=0, AC=1, Do=1)), \neg (p1 = and(Tr=0, Mv=0, Do=0, or(Us=0, and(Us=1, , Lo=0, , AC=0)))), (p2 = and(Tr=0, Mv=0, Us=1, Do=0, AC=1, Lo=1)), \neg (p3 = and(Tr=0, Mv=0, Us=0, Be=1, Lo=1)), \neg (p3 = and(Tr=0, Mv=0, Us=0, Us=0, Us=0, Us=0, Us=0, Us=0, Us=0))$ 

Doors\_Opening

Alarm\_Deactivation