

HvacDampr_Ctrl_2019b | 2022-10-17

HvacDampr_Ctrl_2019b

[COMP]

RB Internal

I [HvacDampr_Ctrl_2019b]

1 Function Definition

1.1 Purpose

HVAC Damper Control

1.2 Introduction

HVAC Damper Control

RB Internal

2 Function Description

2.1 Behavior in normal mode

Figure 1 HvacDampr_Ctrl [HvacDampr_Ctrl]



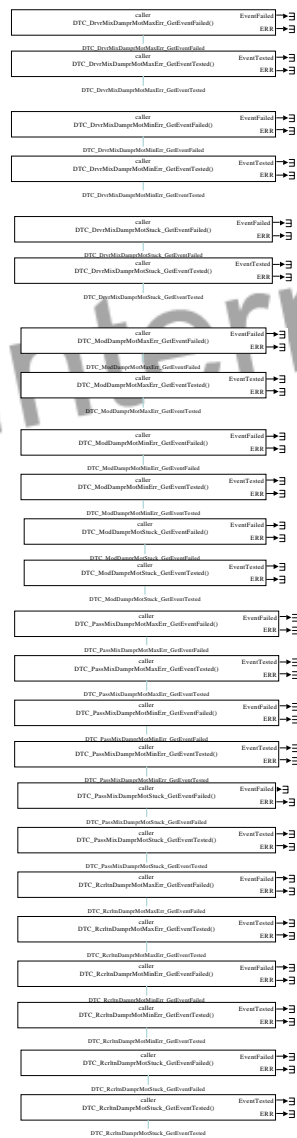


Figure 3 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto]

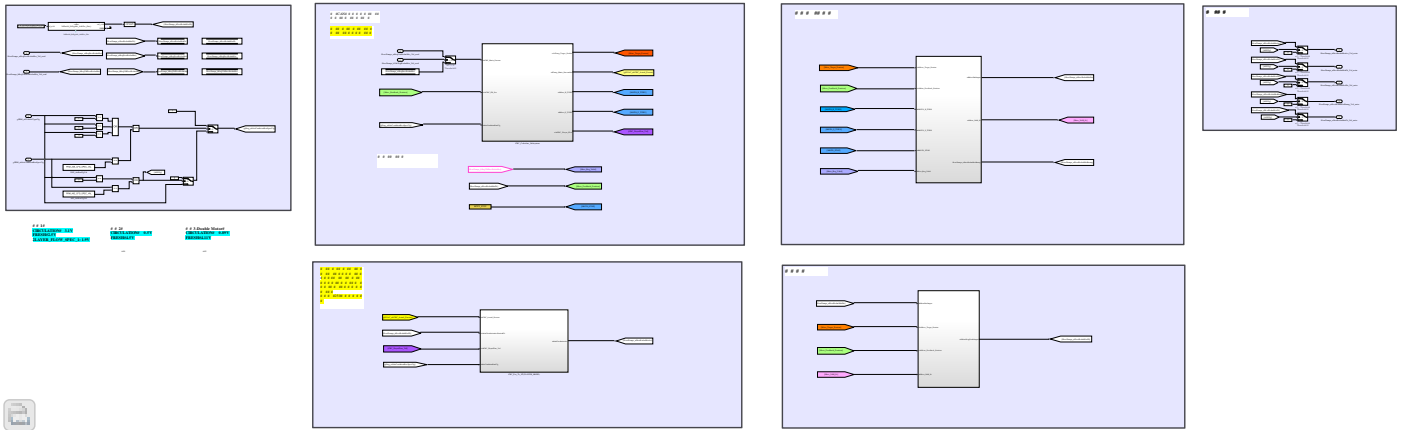


Figure 4 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto_CRC_Calculate_Subsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto_CRC_Calculate_Subsystem]





Figure 5 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto_CRC_Calculate_Subsystem_A02_CRC_Pos_Action [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto_CRC_Calculate_Subsystem_A02_CRC_Pos_Action]

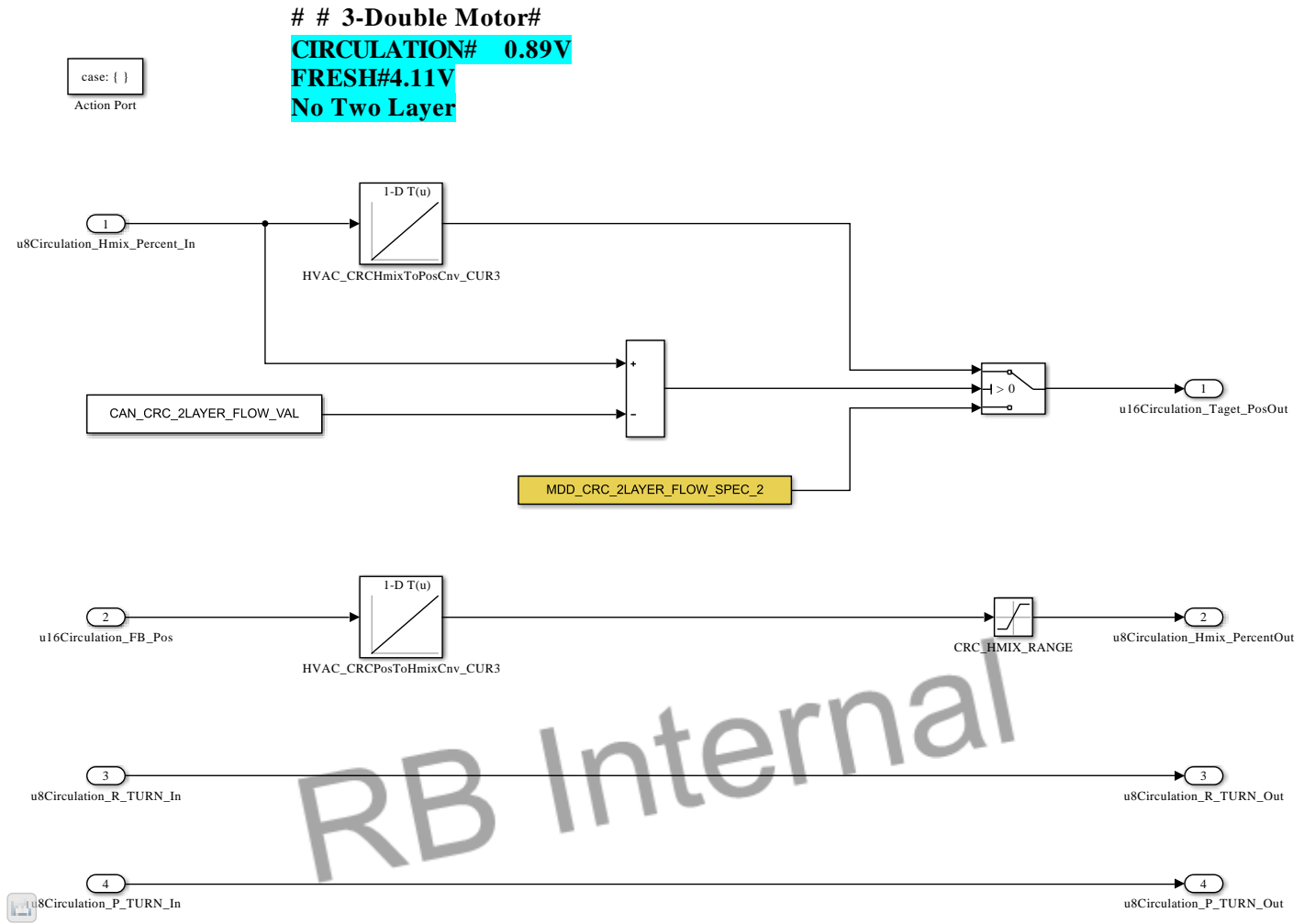




Figure 6 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto_CRC_Calculate_Subsystem_A29_CRC_Pos_Action [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto_CRC_Calculate_Subsystem_A29_CRC_Pos_Action]

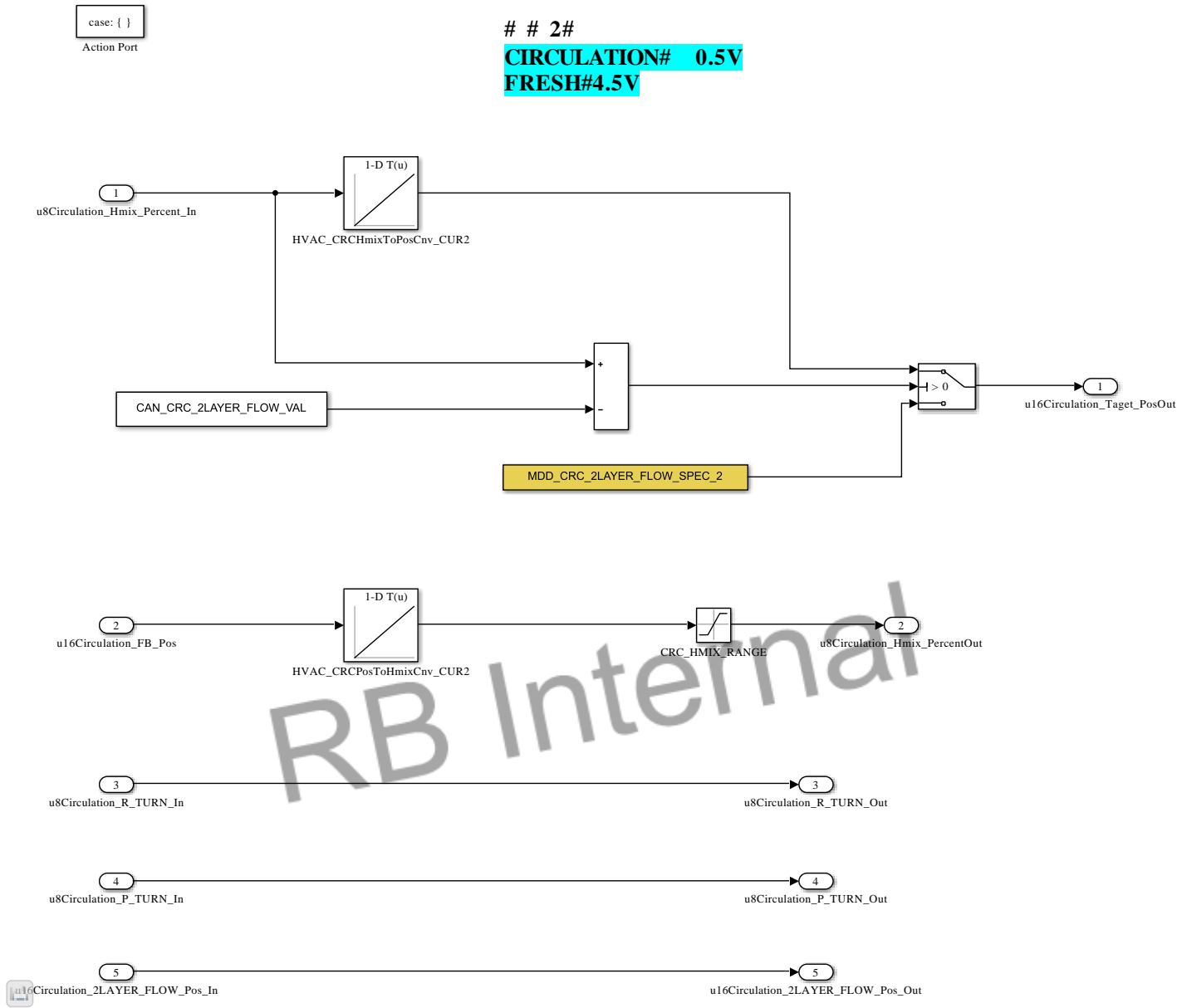
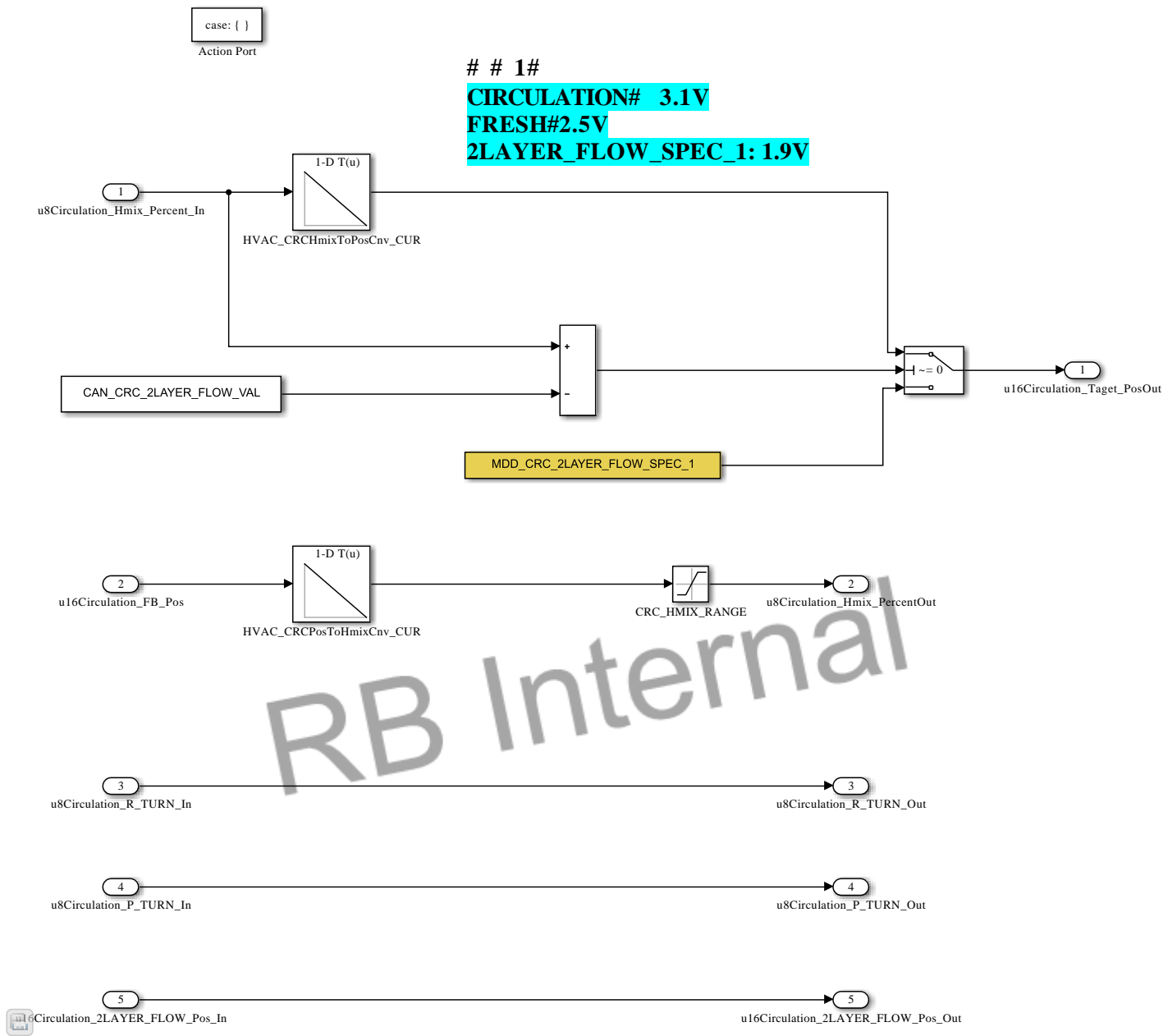




Figure 7 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto_CRC_Calculate_Subsystem_CRC_Pos_Action_Else [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto_CRC_Calculate_Subsystem_CRC_Pos_Action_Else]



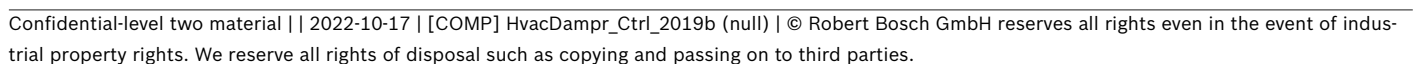
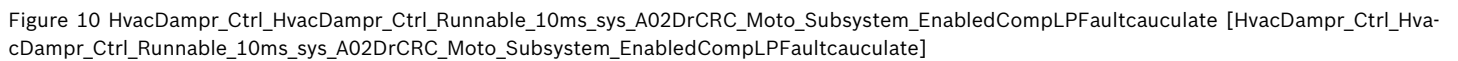
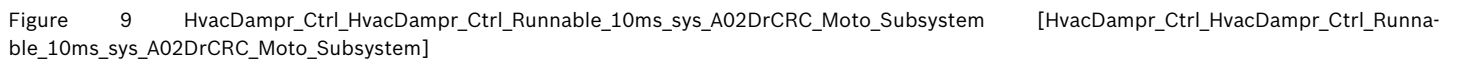


Figure 11 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto_Subsystem_EnabledSubsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto_Subsystem_EnabledSubsystem]

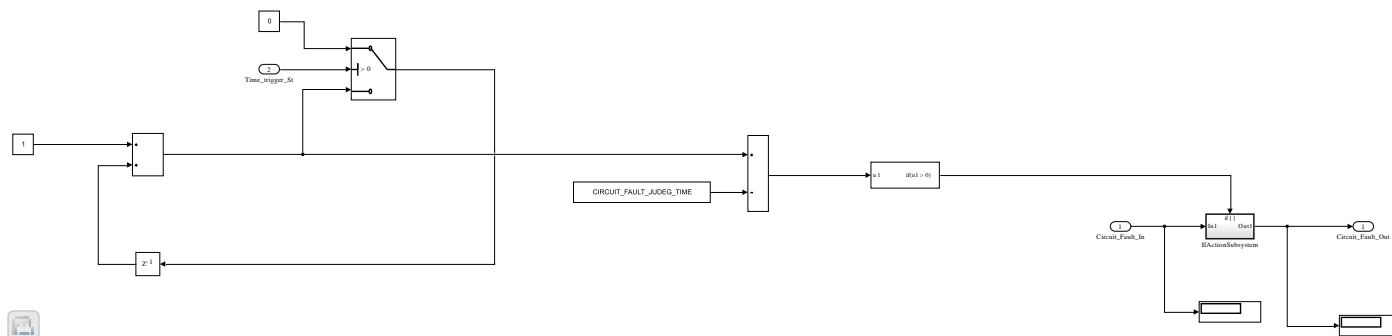


Figure 12 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto_Subsystem_EnabledSubsystem_IfActionSubsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto_Subsystem_EnabledSubsystem_IfActionSubsystem]

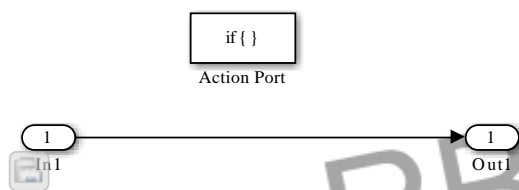


Figure 13 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto_Subsystem_IfActionSubsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto_Subsystem_IfActionSubsystem]

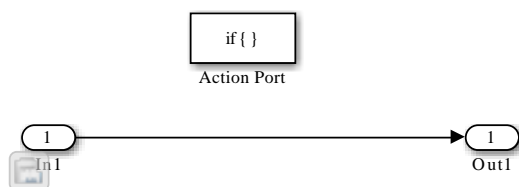


Figure 14 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto_Subsystem2 [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto_Subsystem2]

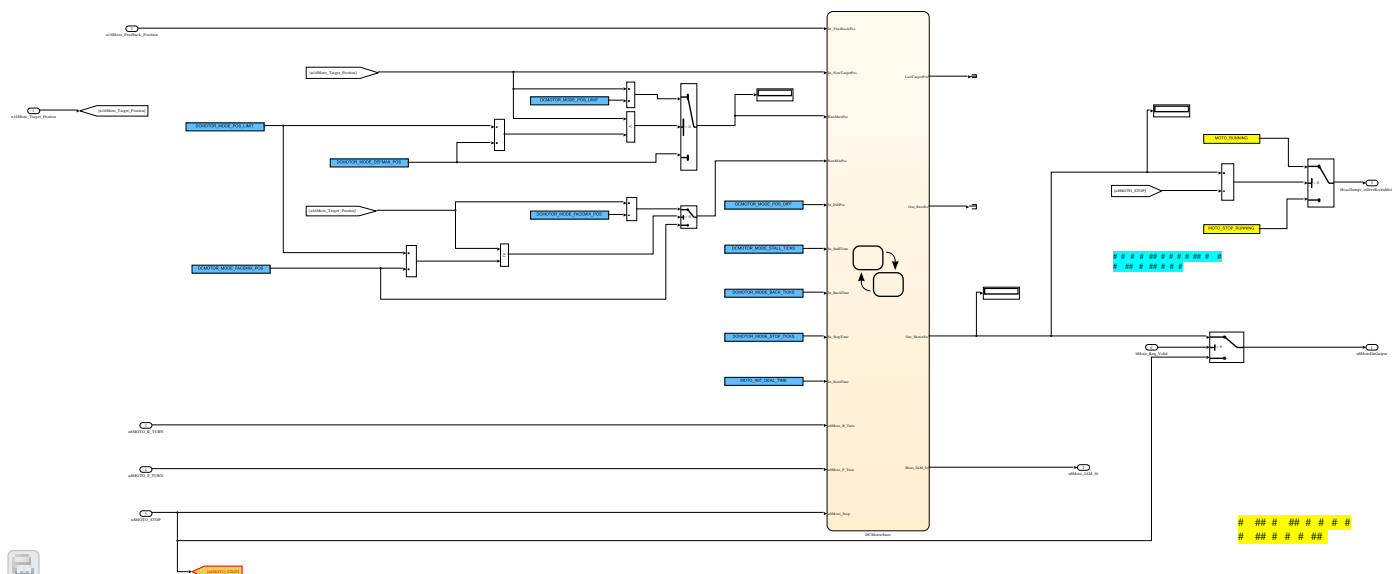


Figure 15 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto_Subsystem2_DCMotorState [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A02DrCRC_Moto_Subsystem2_DCMotorState]

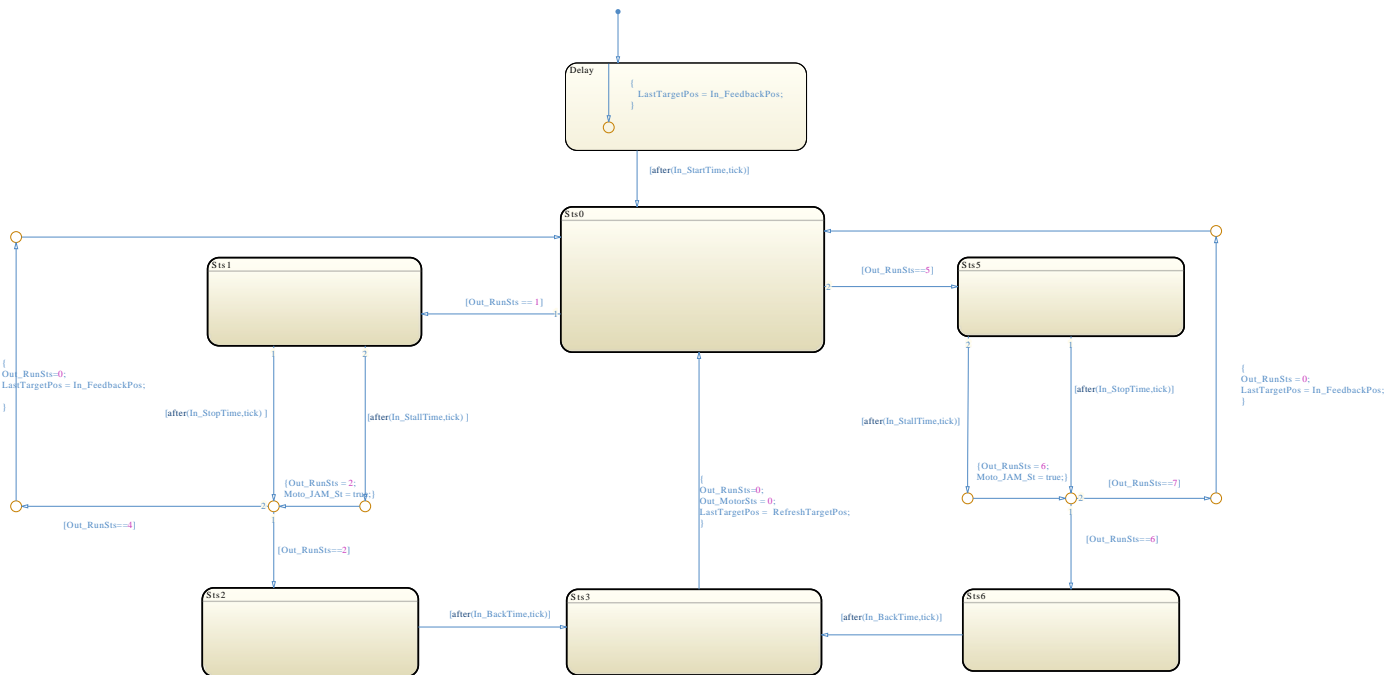


Figure 16 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto]

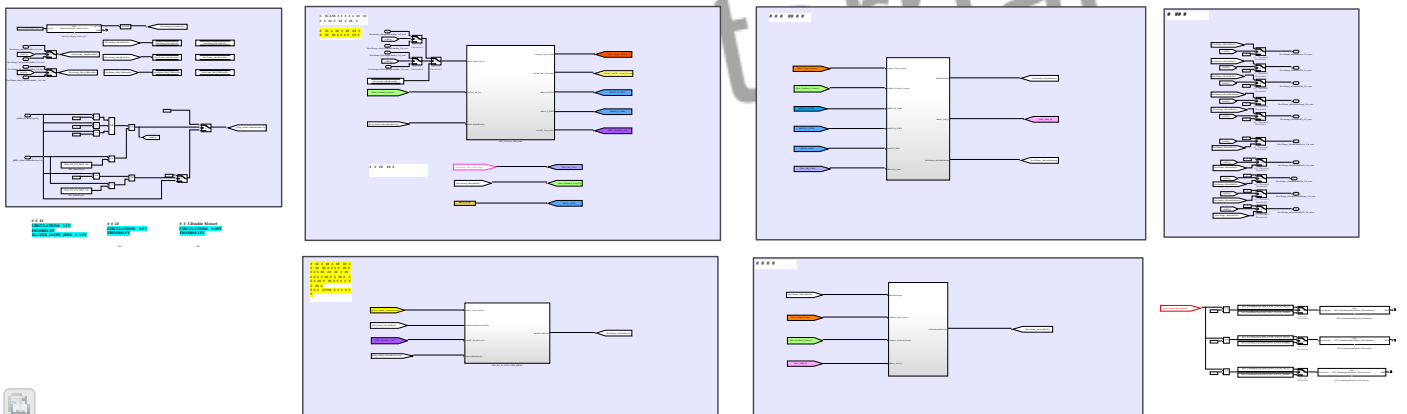


Figure 17 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto_CRC_Calculate_Subsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto_CRC_Calculate_Subsystem]





Figure 18 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto_CRC_Calculate_Subsystem_A02_CRC_Pos_Action [Hvac-Dampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto_CRC_Calculate_Subsystem_A02_CRC_Pos_Action]

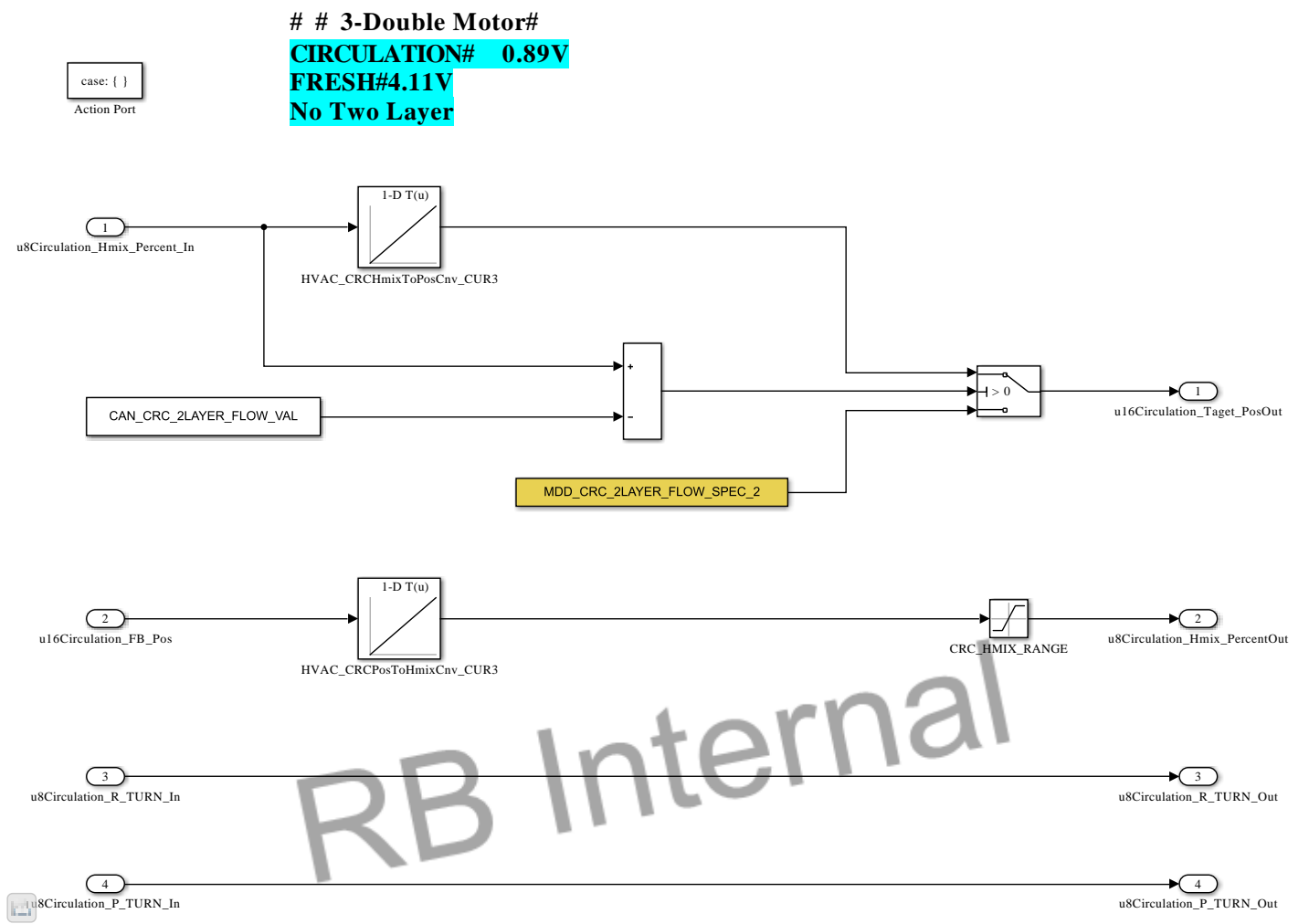




Figure 19 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto_CRC_Calculate_Subsystem_A29_CRC_Pos_Action [Hvac-Dampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto_CRC_Calculate_Subsystem_A29_CRC_Pos_Action]

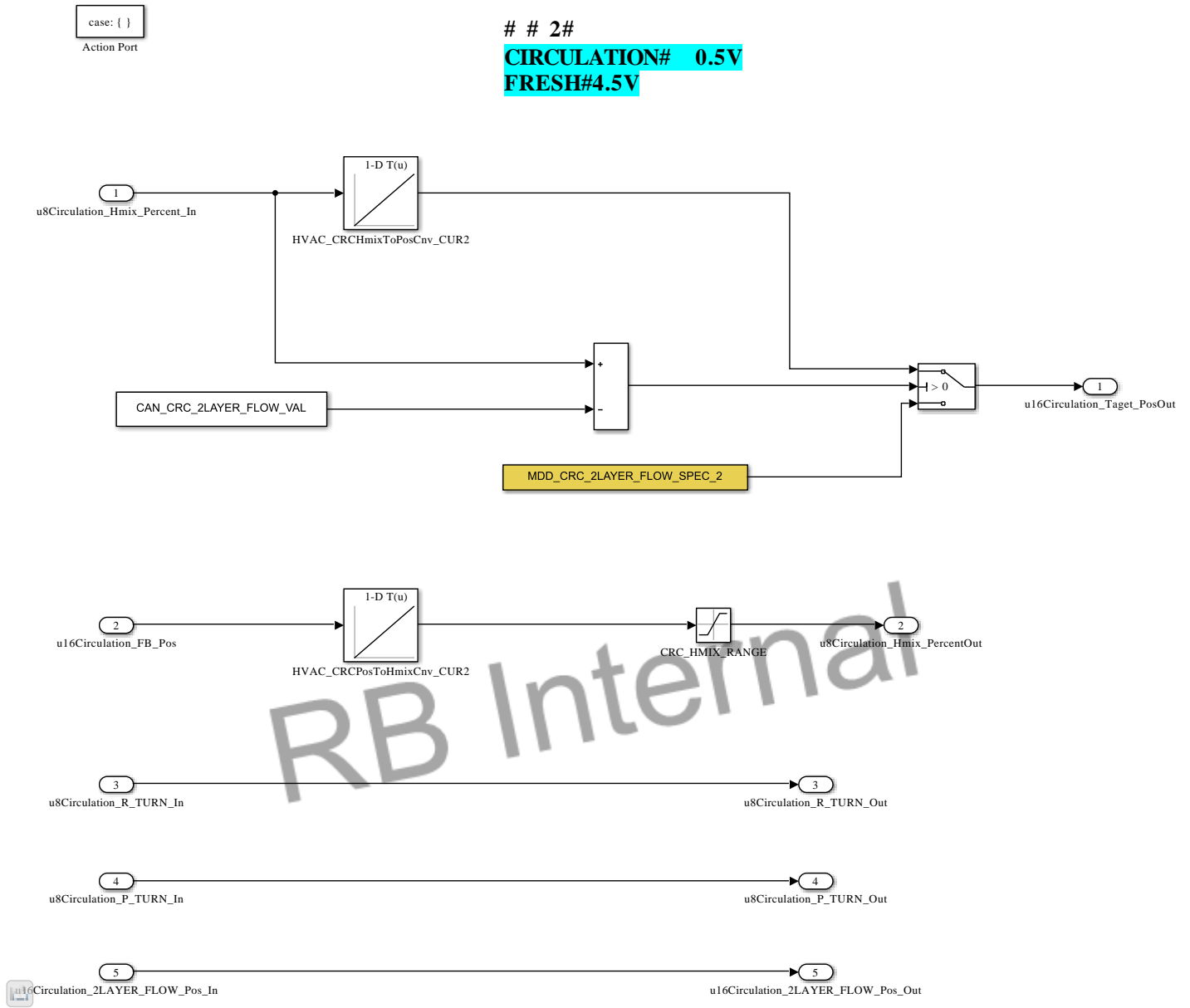


Figure 20 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto_CRC_Calculate_Subsystem_CRC_Pos_Action_Else [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto_CRC_Calculate_Subsystem_CRC_Pos_Action_Else]

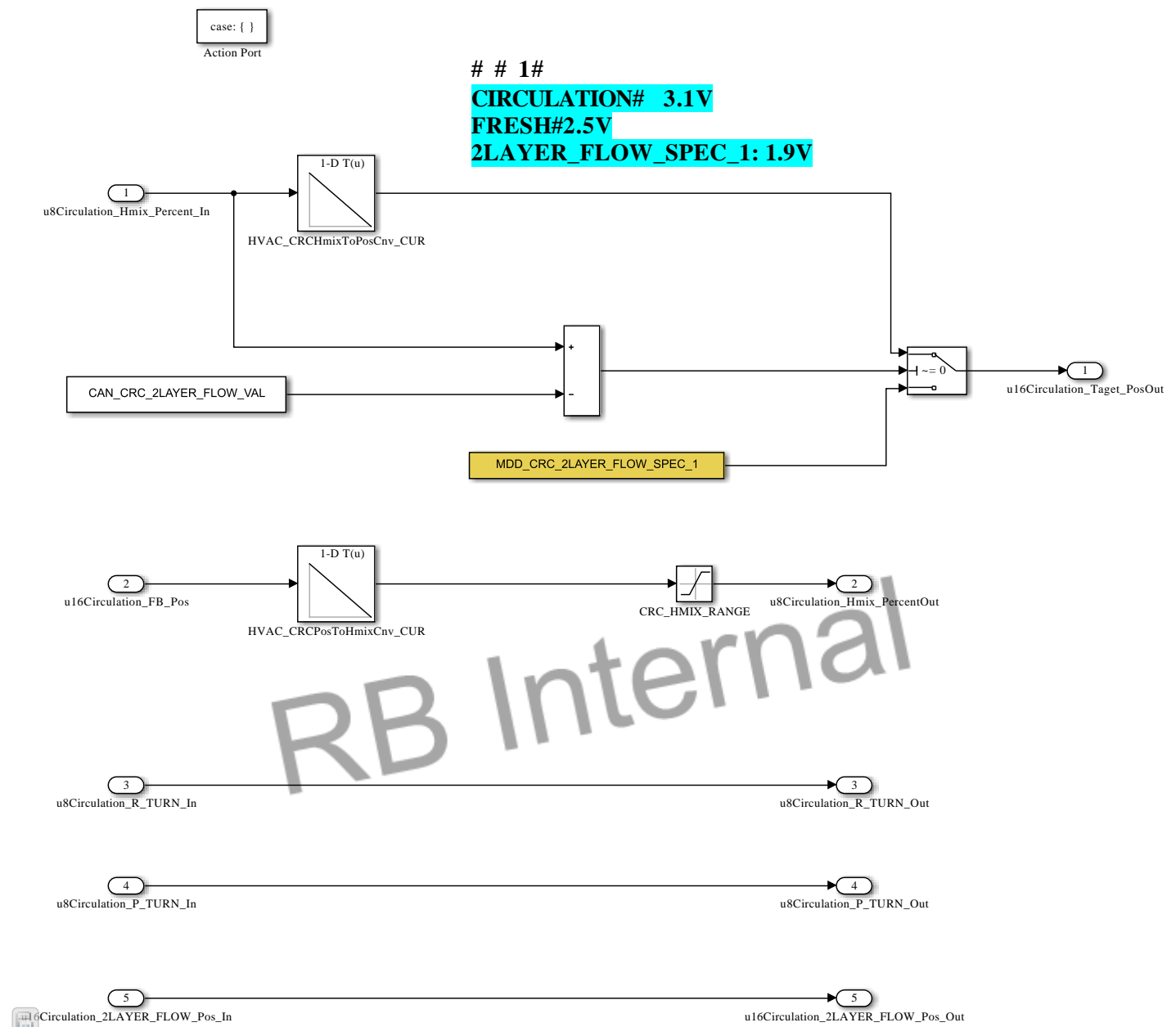


Figure 21 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto_CRC_Pos_To_ST(2LAYER_MODE) [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto_CRC_Pos_To_ST(2LAYER_MODE)]

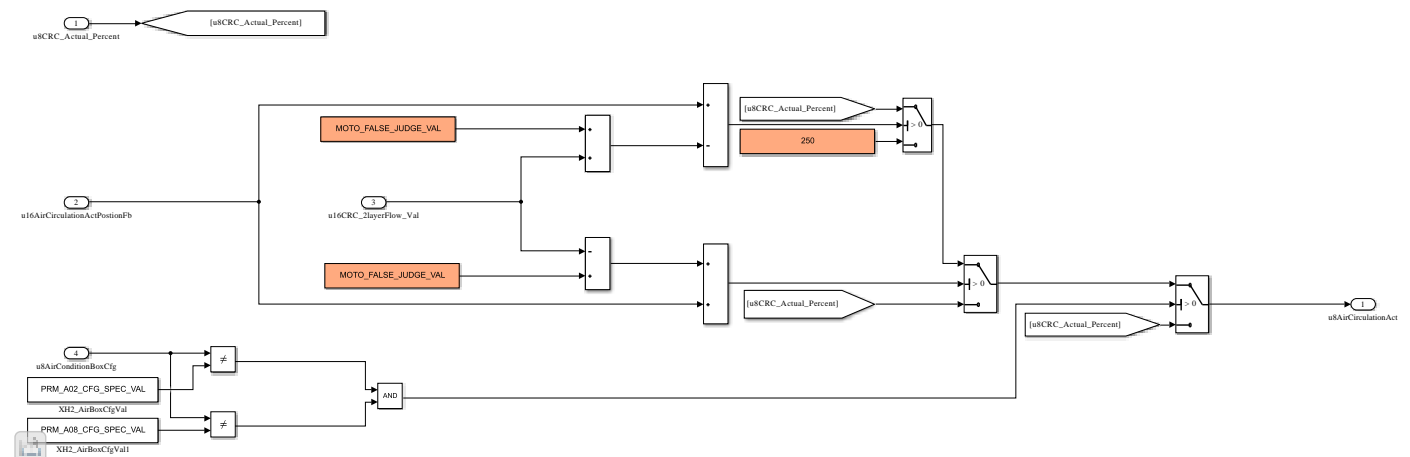


Figure 22 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto_Subsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto_Subsystem]

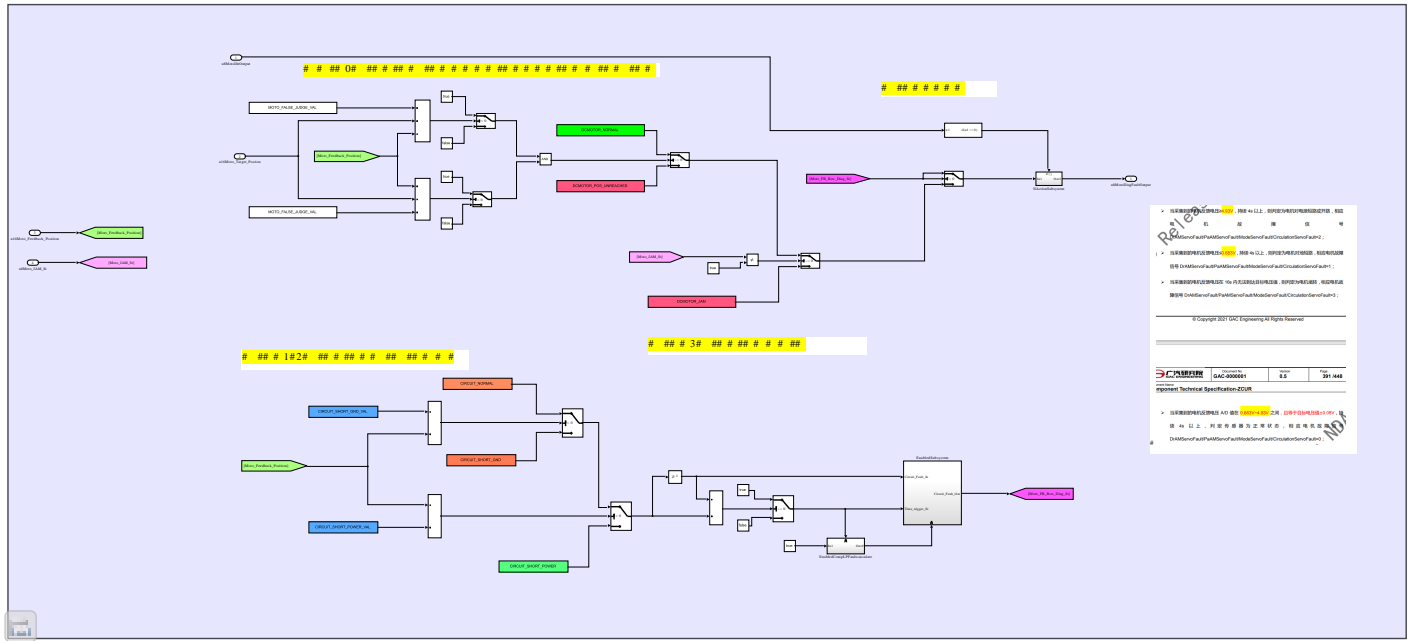


Figure 23 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto_Subsystem_EnabledCompLPFaultcauculate [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto_Subsystem_EnabledCompLPFaultcauculate]

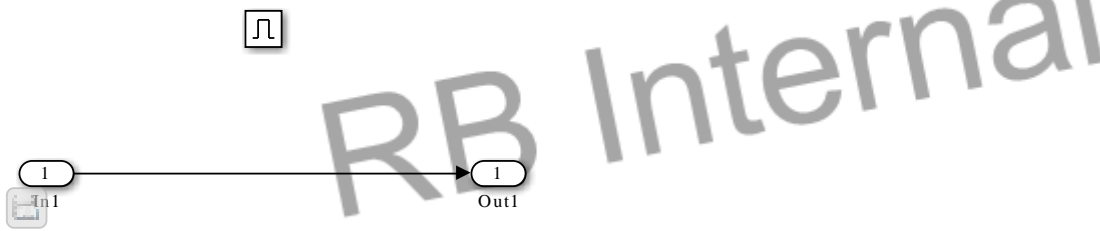
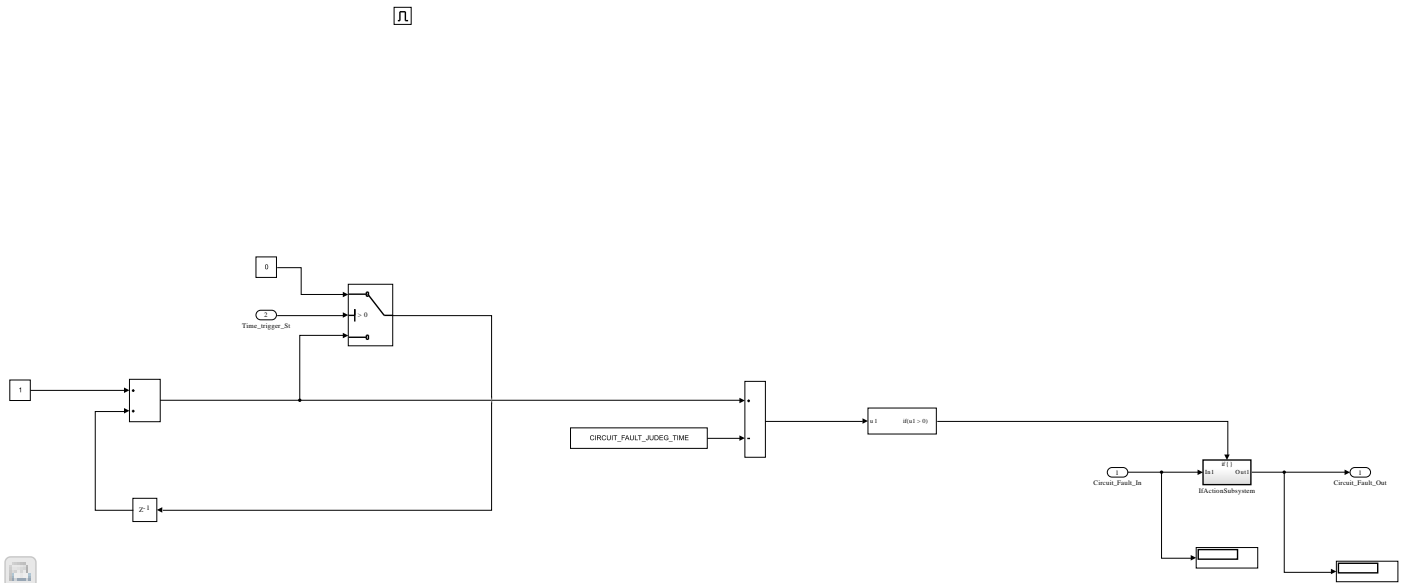
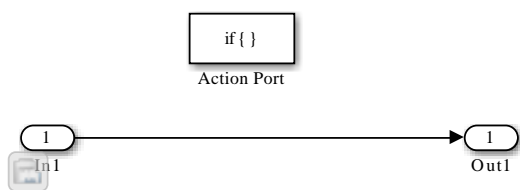


Figure 24 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto_Subsystem_EnabledSubsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto_Subsystem_EnabledSubsystem]





if { }

Action Port

1 In1 → 1 Out1

Figure 28 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto_Subsystem2_DCMotorState [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_A09CRC_A02PaCRC_Moto_Subsystem2_DCMotorState]

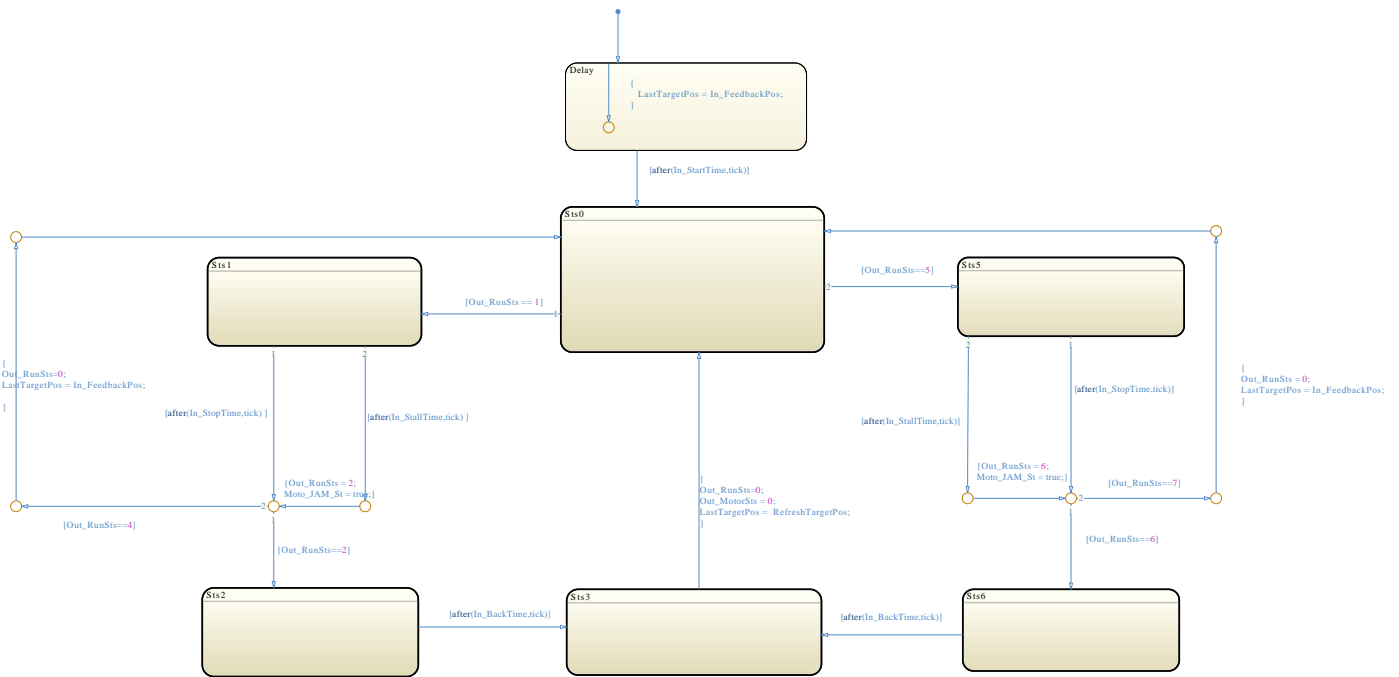


Figure 29 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto]

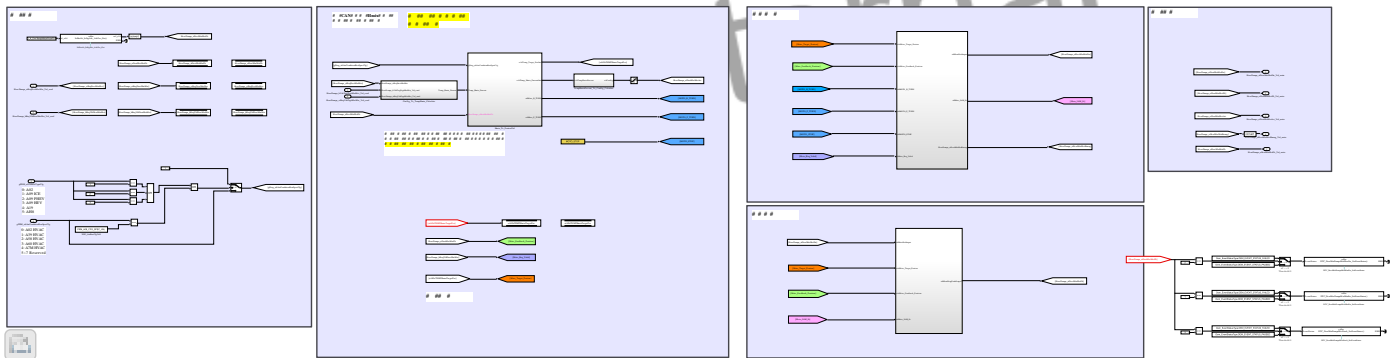


Figure 30 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_CanSig_To_TempHmix_Calculate [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_CanSig_To_TempHmix_Calculate]

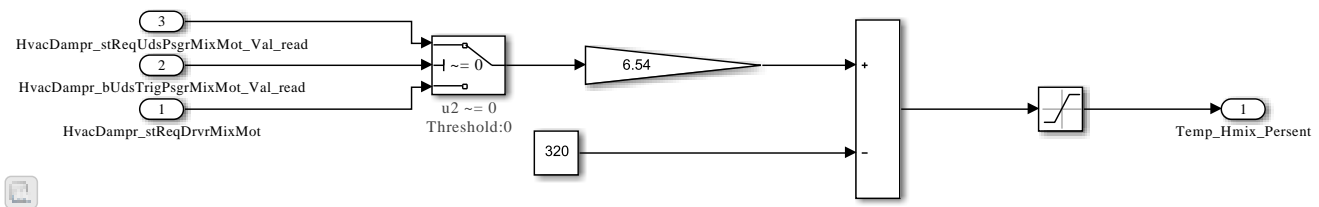


Figure 31 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Hmix_To_PosionVal [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Hmix_To_PosionVal]

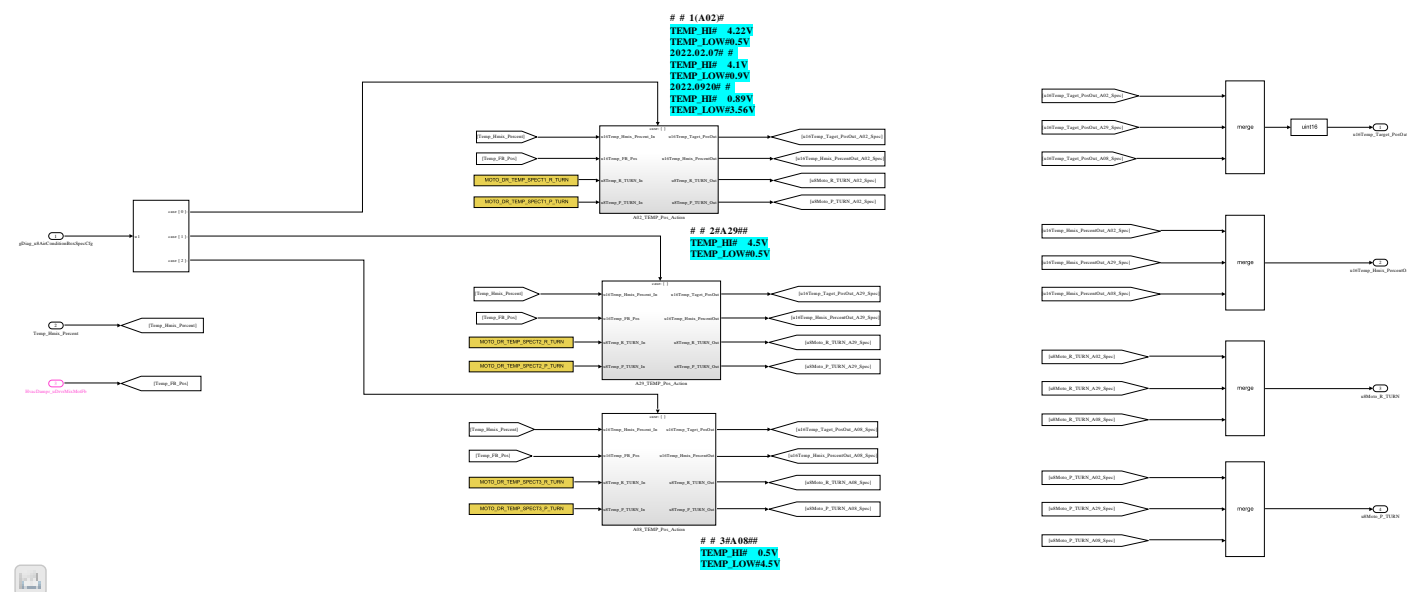


Figure 32 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Hmix_To_PosionVal_A02_TEMP_Pos_Action [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Hmix_To_PosionVal_A02_TEMP_Pos_Action]

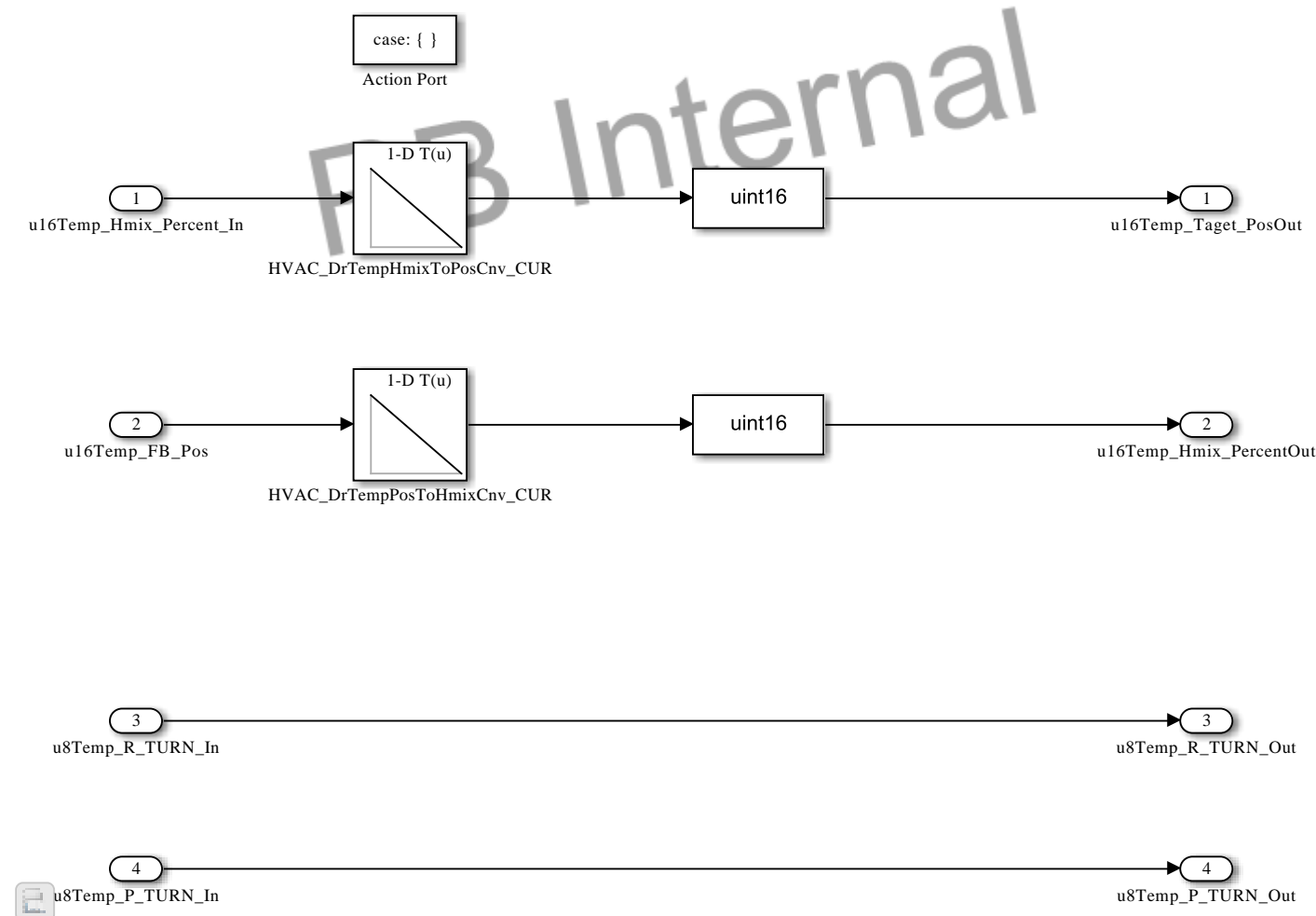




Figure 33 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Hmix_To_PostionVal_A08_TEMP_Pos_Action [HvacDampr_Ctrl_Hvac-Dampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Hmix_To_PostionVal_A08_TEMP_Pos_Action]

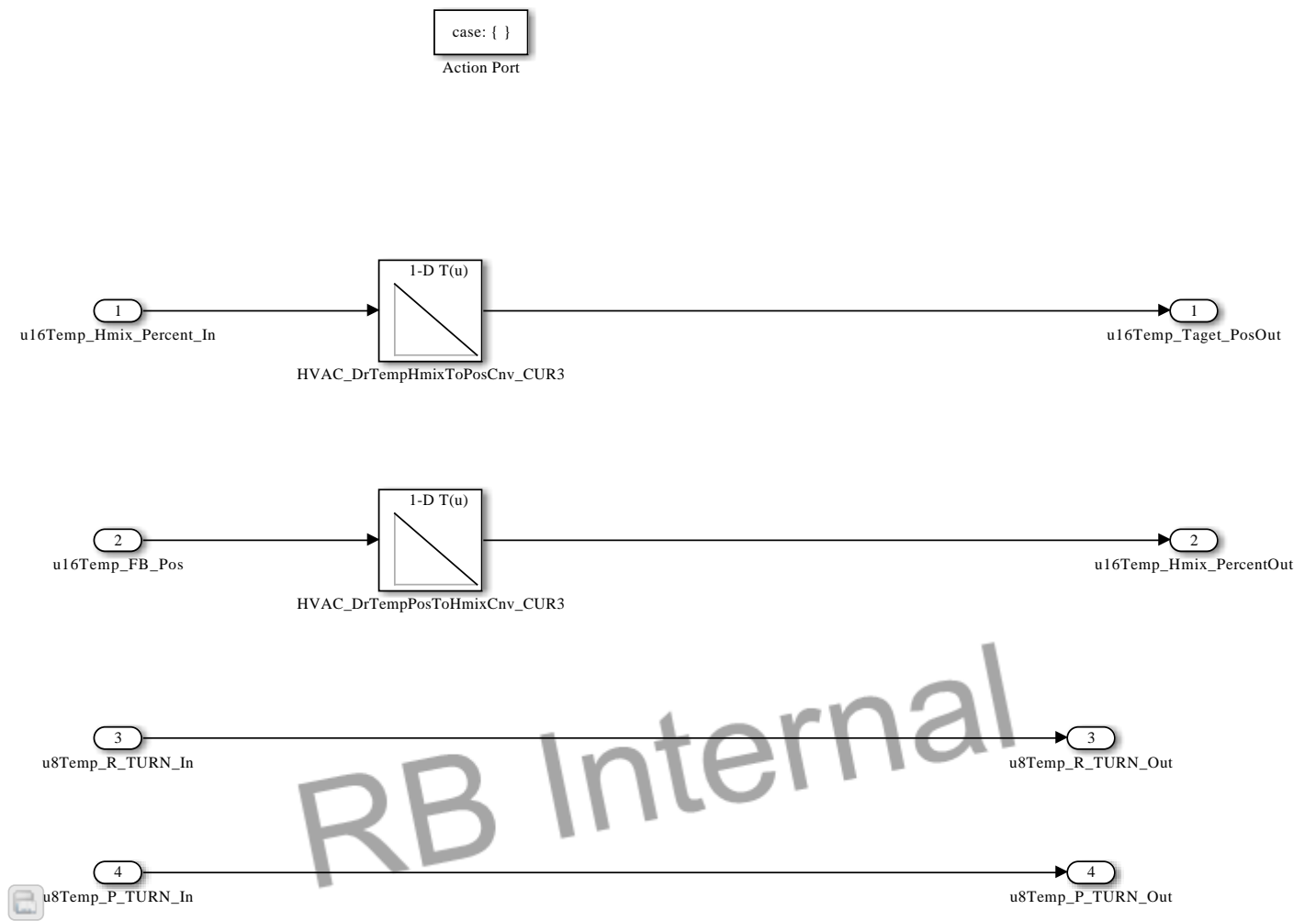


Figure 34 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Hmix_To_PosionVal_A29_TEMP_Pos_Action [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Hmix_To_PosionVal_A29_TEMP_Pos_Action]

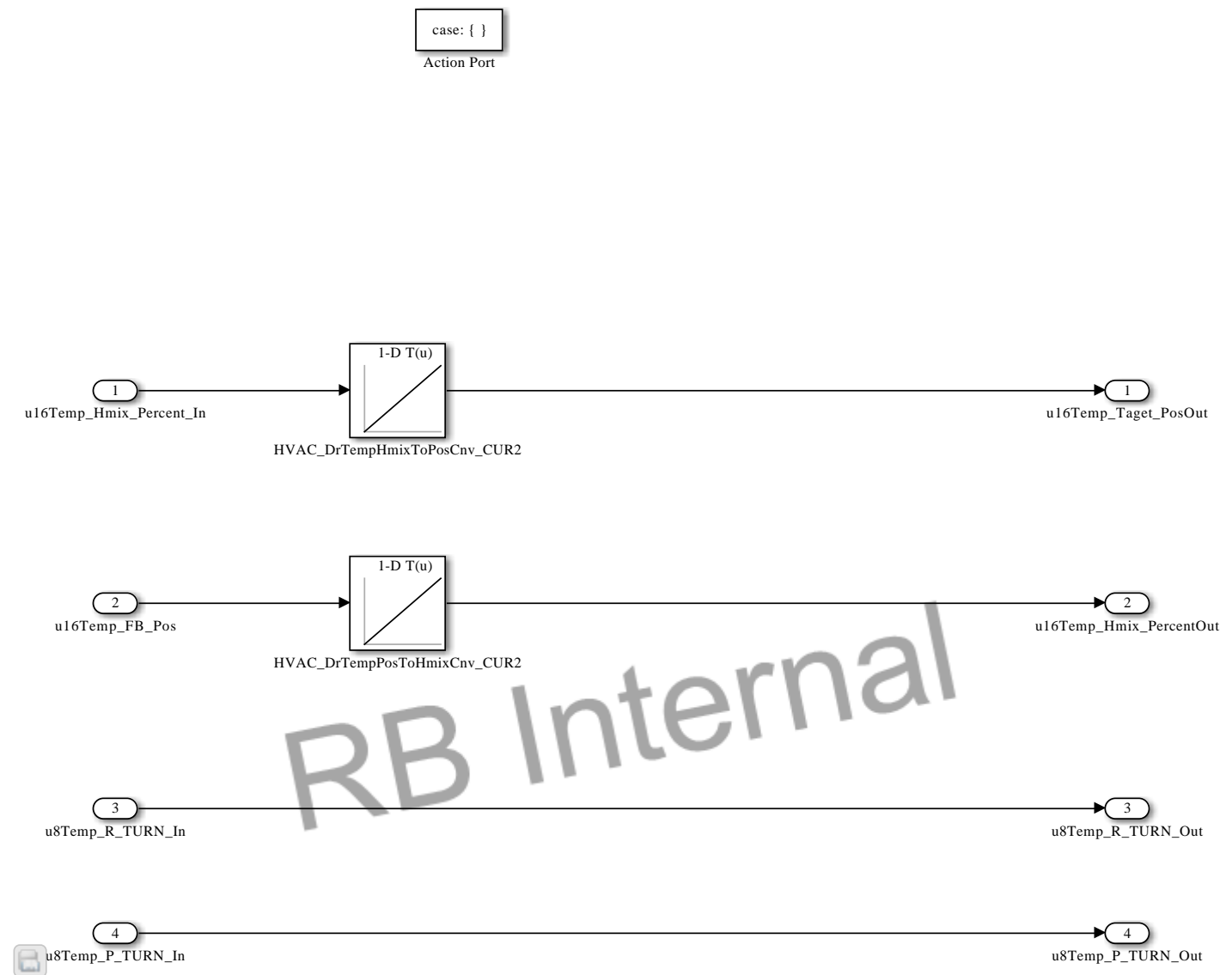


Figure 35 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Subsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Subsystem]

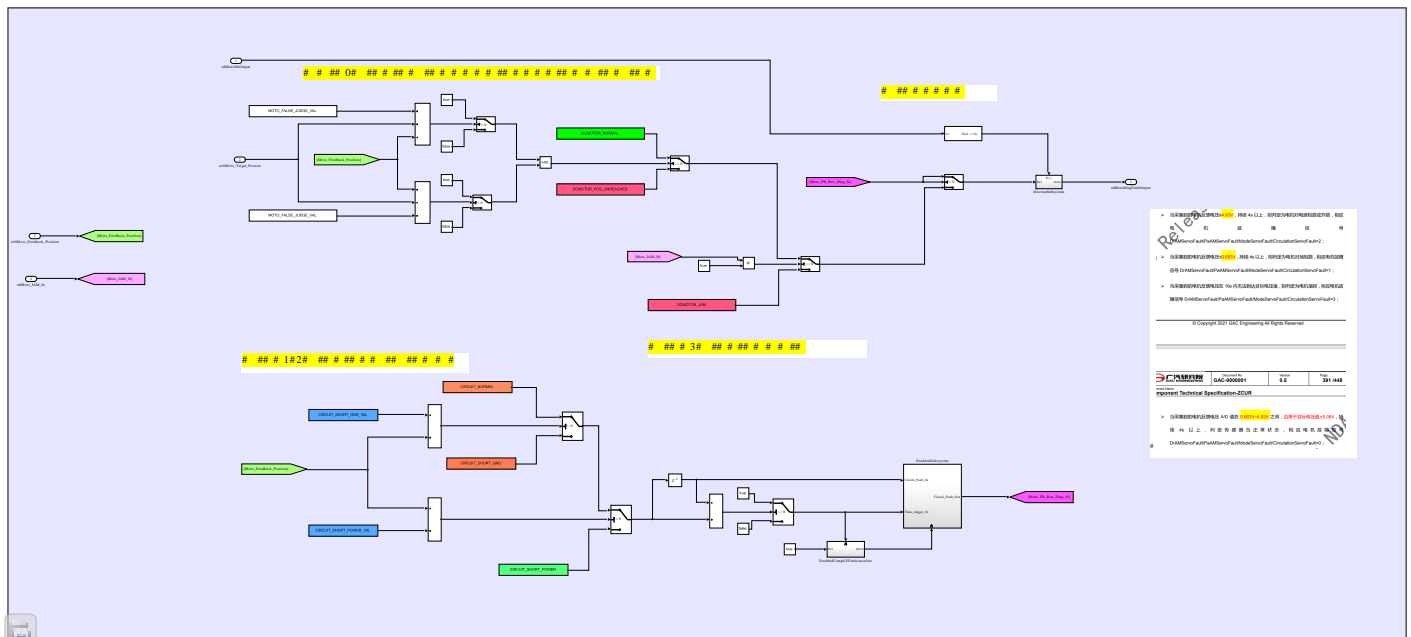


Figure 36 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Subsystem_EnabledCompLPFaultcauculate [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Subsystem_EnabledCompLPFaultcauculate]

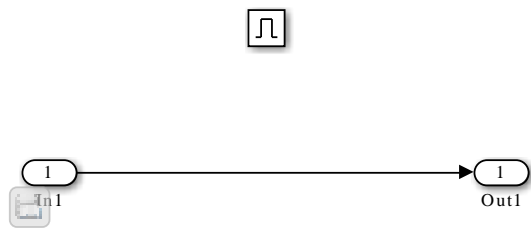


Figure 37 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Subsystem_EnabledSubsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Subsystem_EnabledSubsystem]

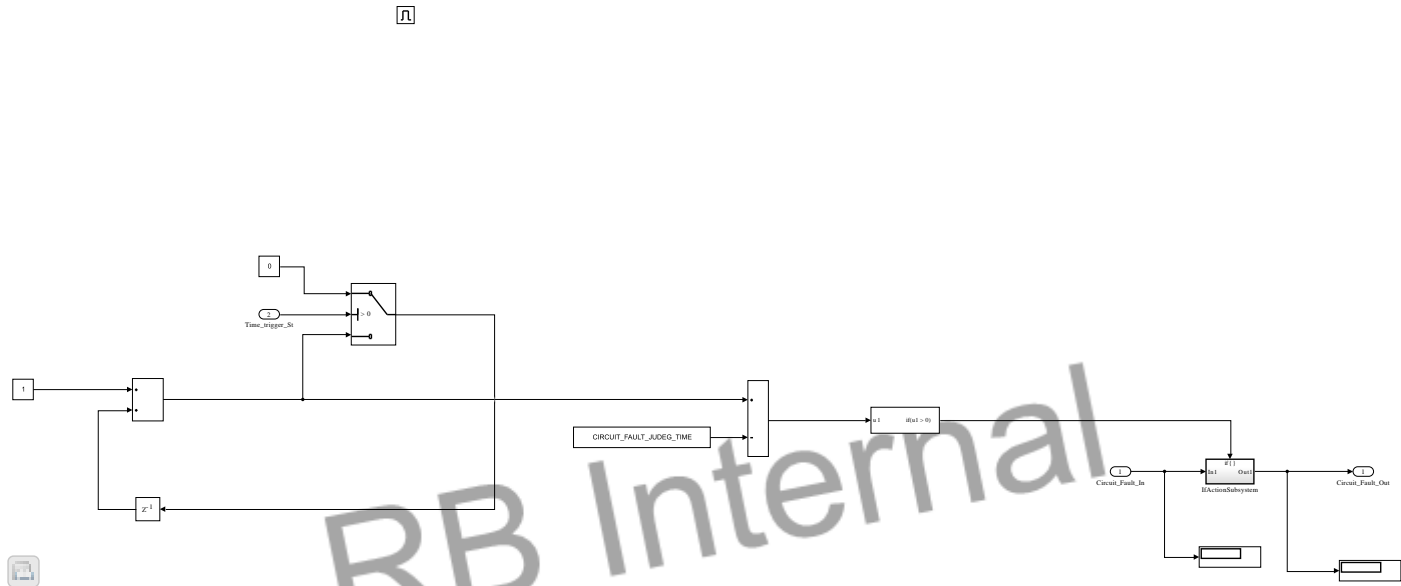


Figure 38 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Subsystem_EnabledSubsystem_IfActionSubsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Subsystem_EnabledSubsystem_IfActionSubsystem]

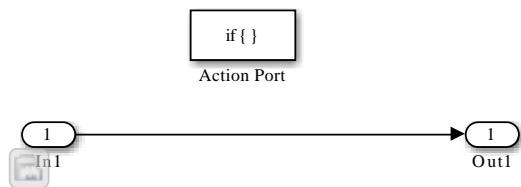


Figure 39 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Subsystem_IfActionSubsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Subsystem_IfActionSubsystem]

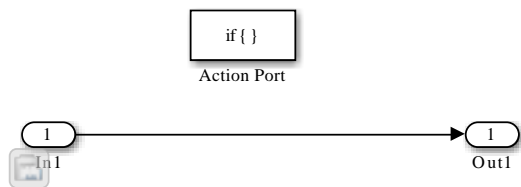


Figure 40 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Subsystem2 [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Subsystem2]

[HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Subsystem2]

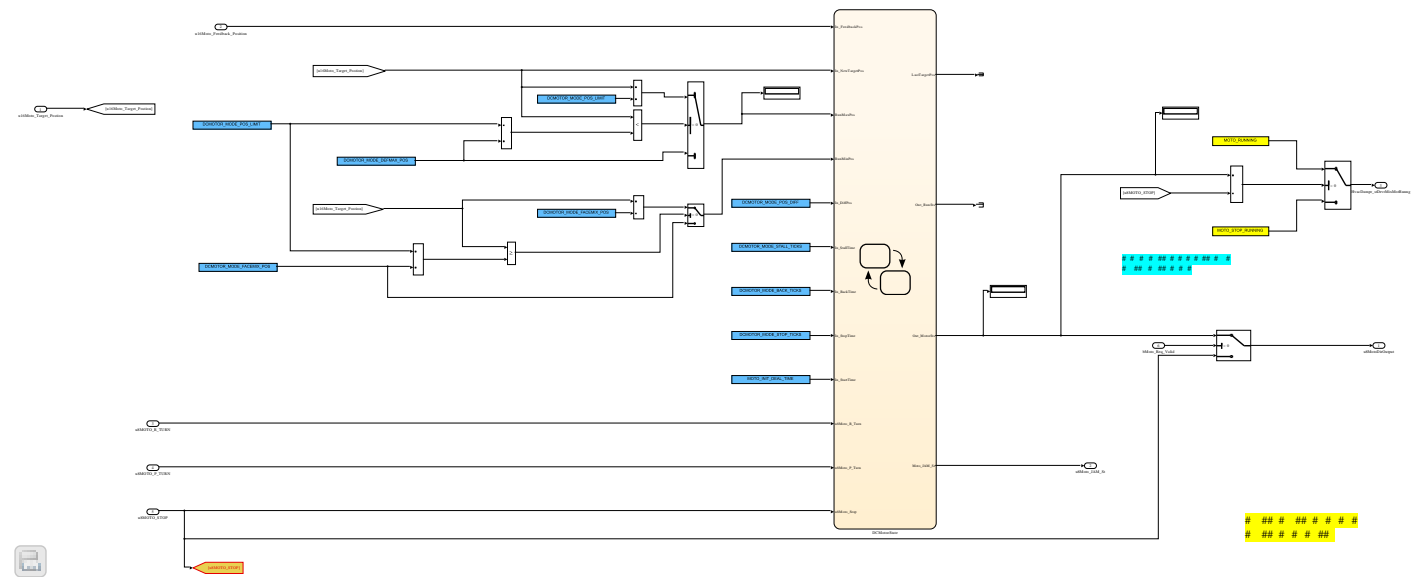


Figure 41 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Subsystem2_DCMotorState [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_Subsystem2_DCMotorState]

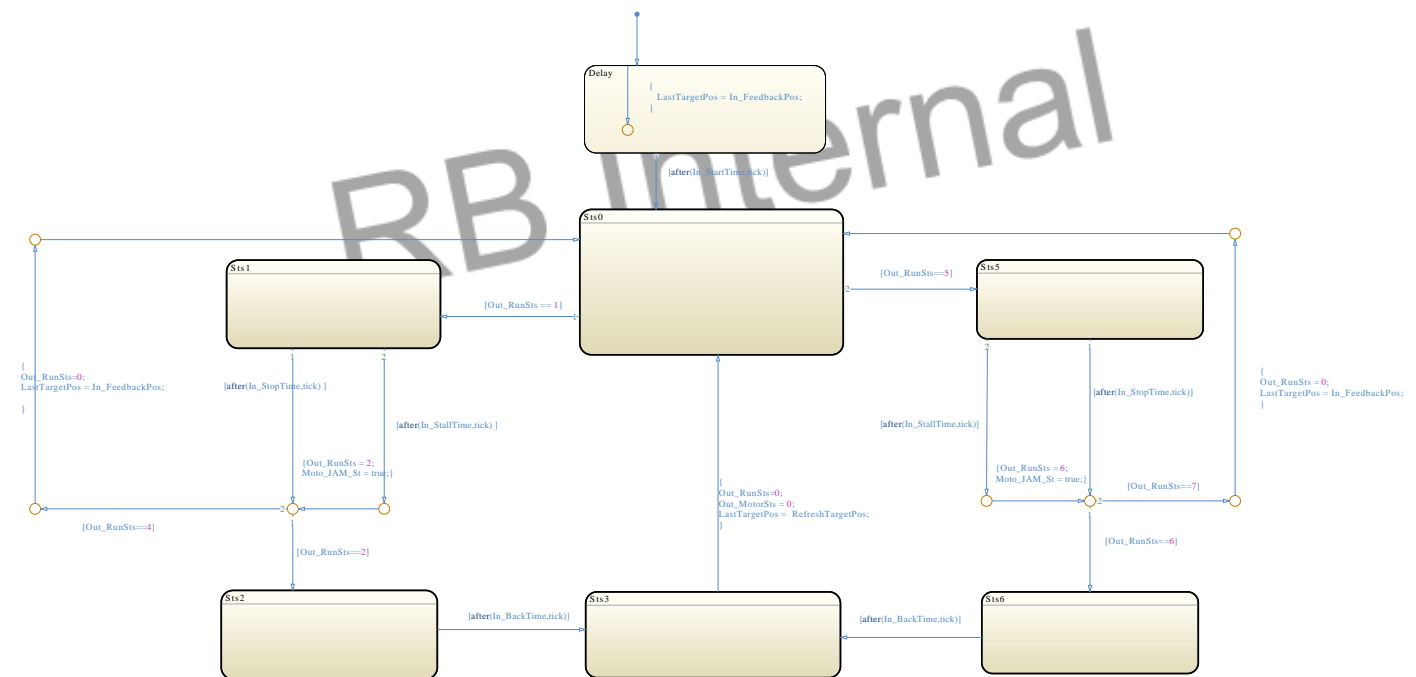


Figure 42 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_TempHmixPercent_To_CanSig_Calculate [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Dr_Temp_Moto_TempHmixPercent_To_CanSig_Calculate]

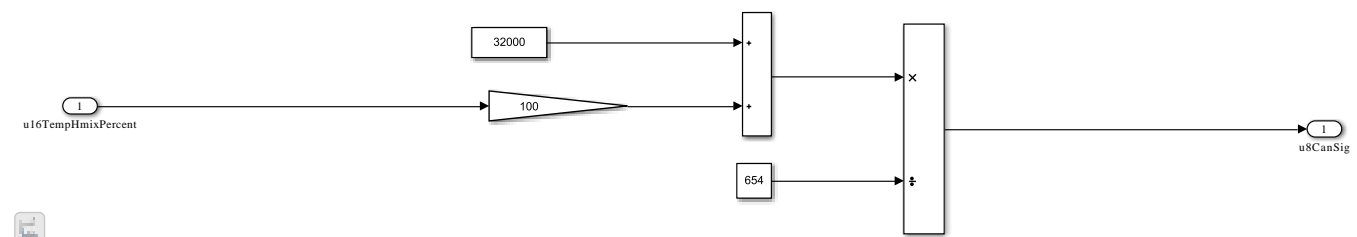


Figure 43 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Mode_Moto [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Mode_Moto]

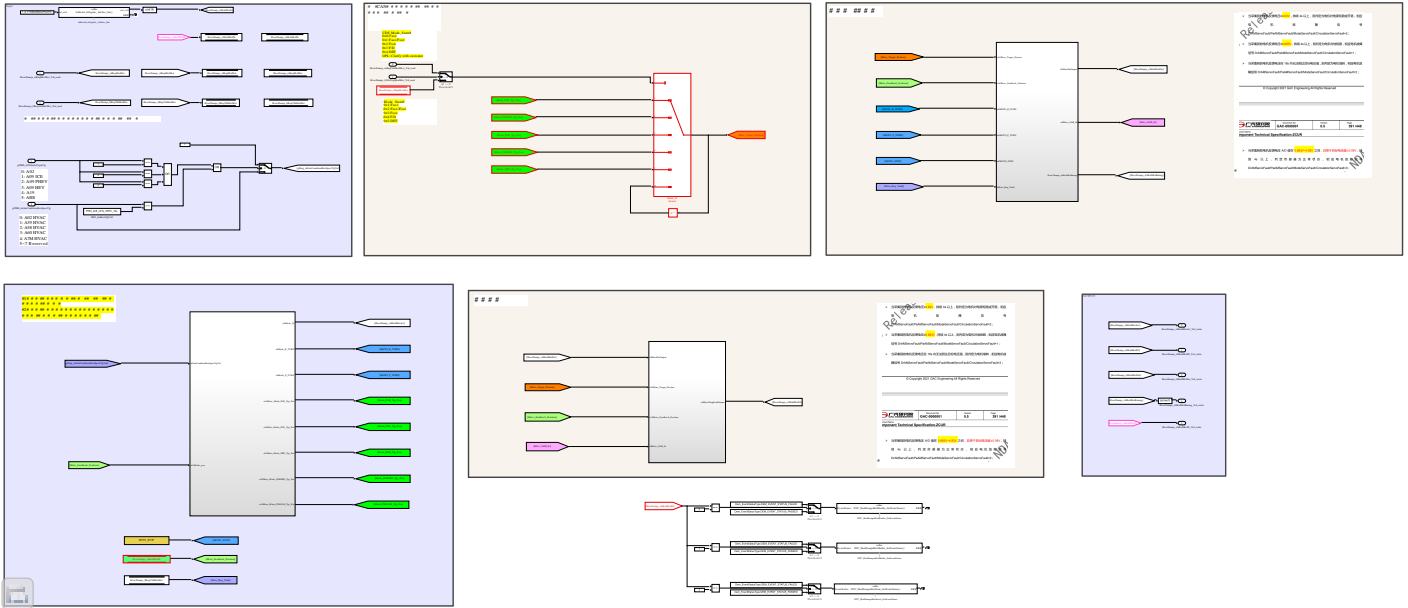


Figure 44 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Mode_Moto_Subsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Mode_Moto_Subsystem]

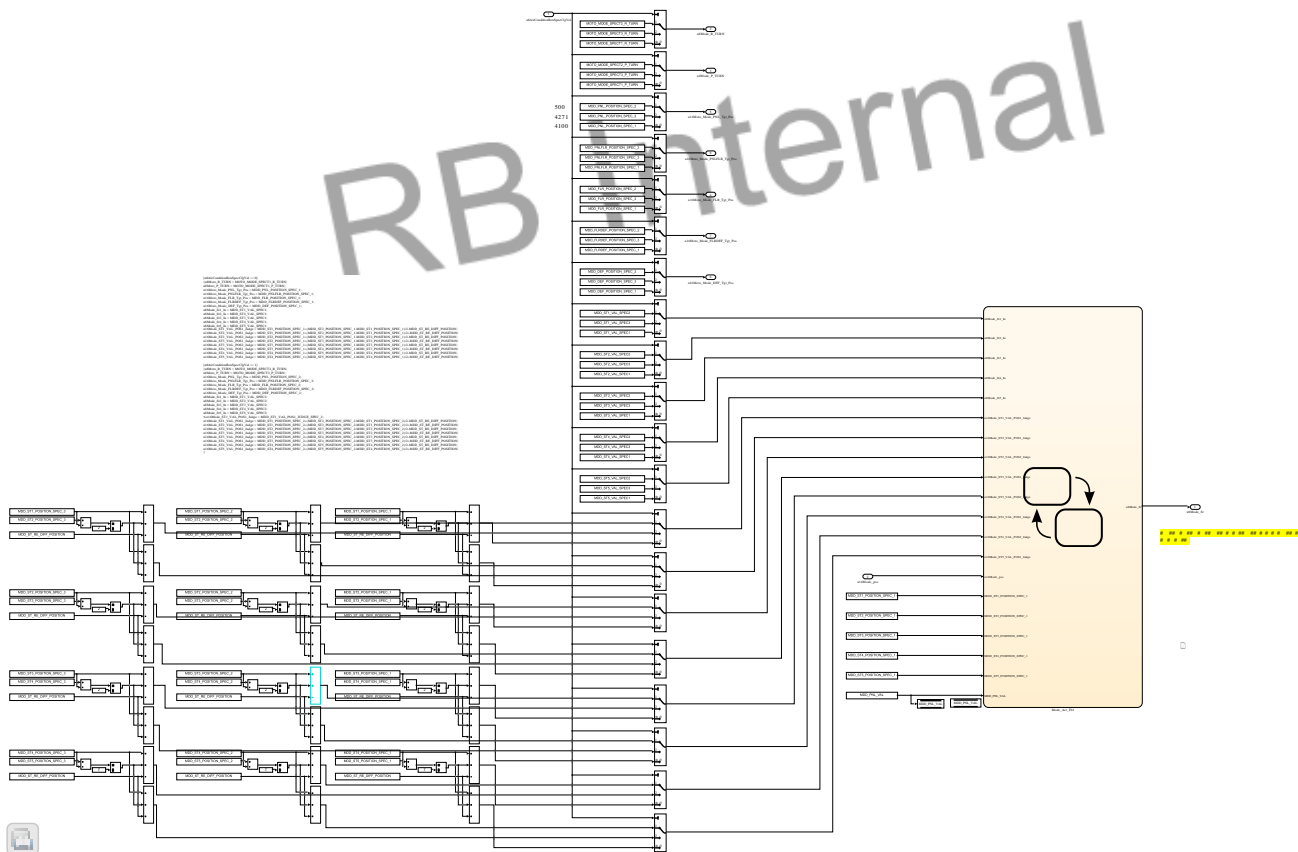
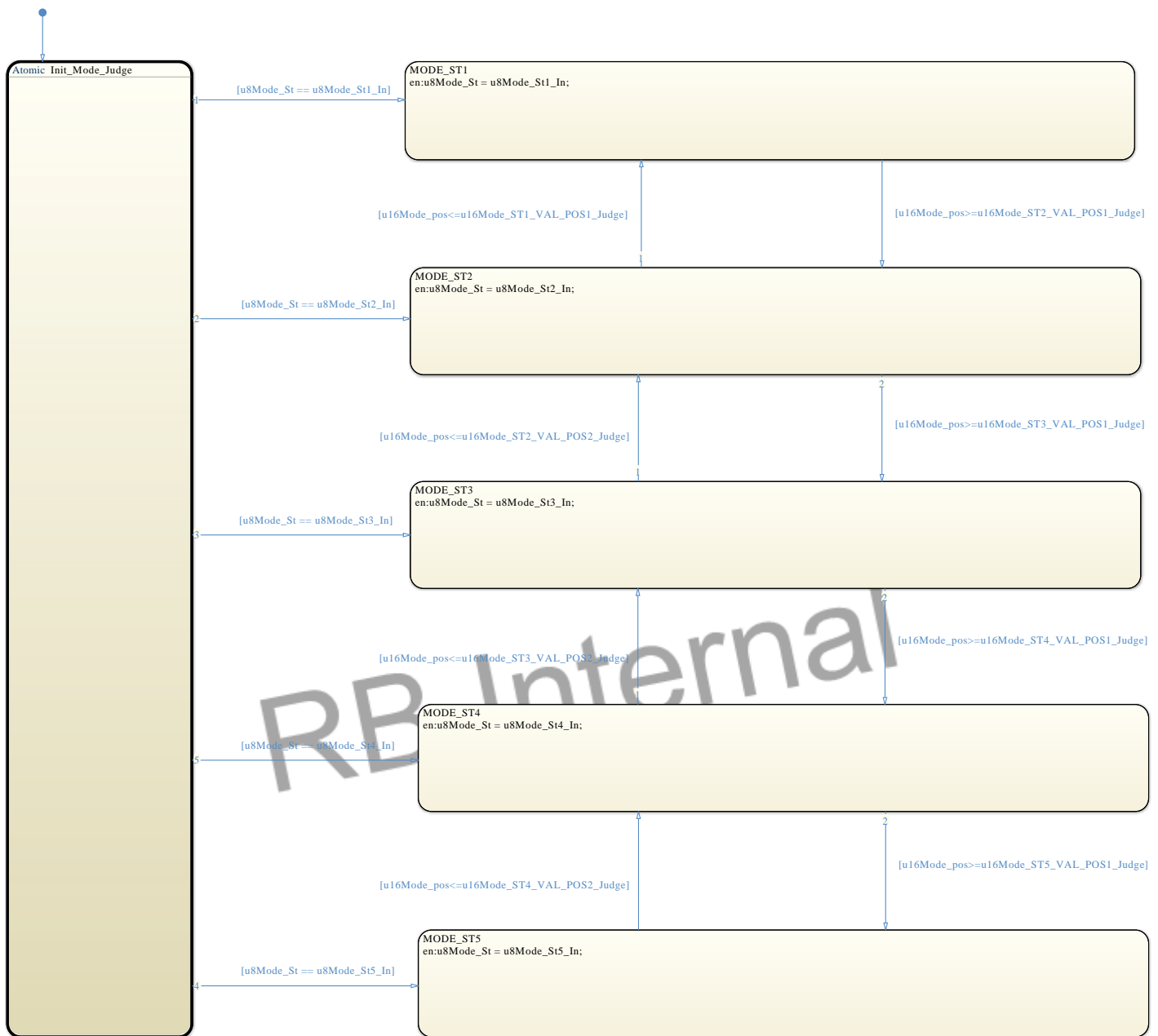


Figure 45 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Mode_Moto_Subsystem_Mode_Act_Fb1 [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Mode_Moto_Subsystem_Mode_Act_Fb1]



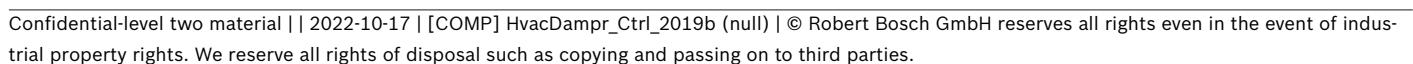
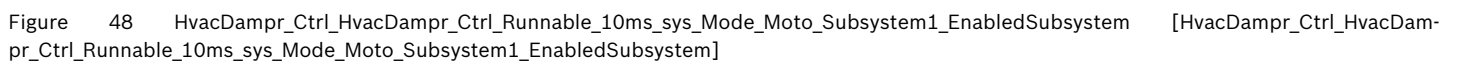
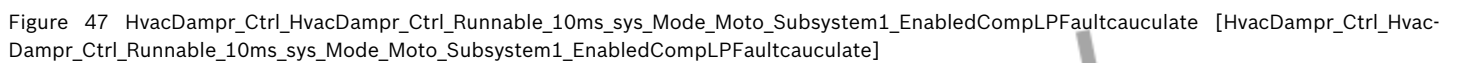


Figure 49 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Mode_Moto_Subsystem1_EnabledSubsystem_IfActionSubsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Mode_Moto_Subsystem1_EnabledSubsystem_IfActionSubsystem]

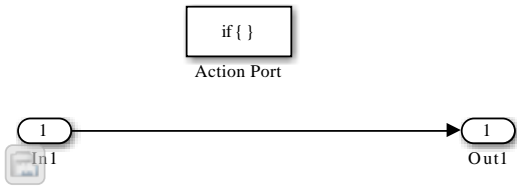


Figure 50 HvacDampr_Ctrl_HvacDamp_Ctrl_Runnable_10ms_sys_Mode_Moto_Subsystem1_IfActionSubsystem [HvacDampr_Ctrl_HvacDamp_Ctrl_Runnable_10ms_sys_Mode_Moto_Subsystem1_IfActionSubsystem]

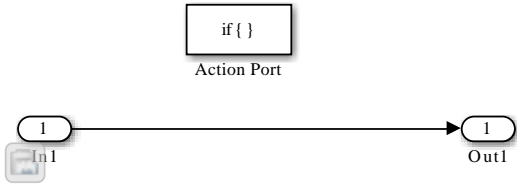


Figure 51 HvacDampr_CtrlHvacDampr_Ctrl_Runnable_10ms_sys_Mode_Moto_Subsystem2 [HvacDampr_CtrlHvacDampr_Ctrl_Runnable_10ms_sys_Mode_Moto_Subsystem2]

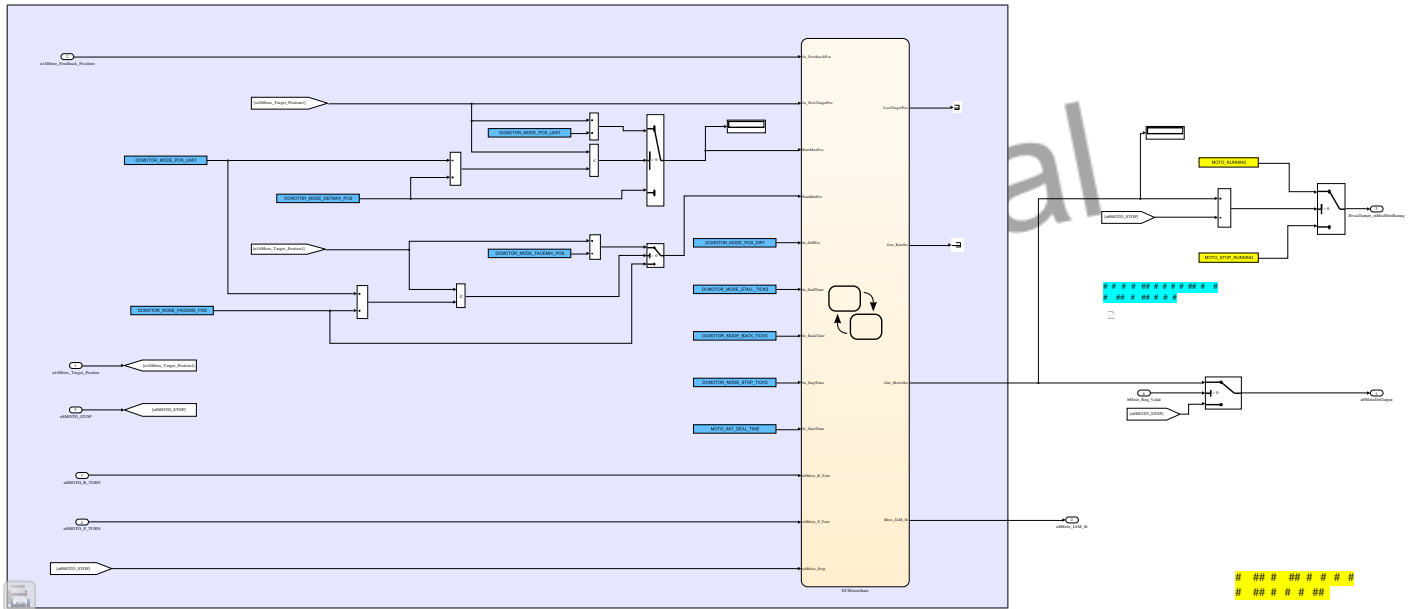


Figure 52 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Mode_Moto_Subsystem2_DCMotorState [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Mode_Moto_Subsystem2_DCMotorState]

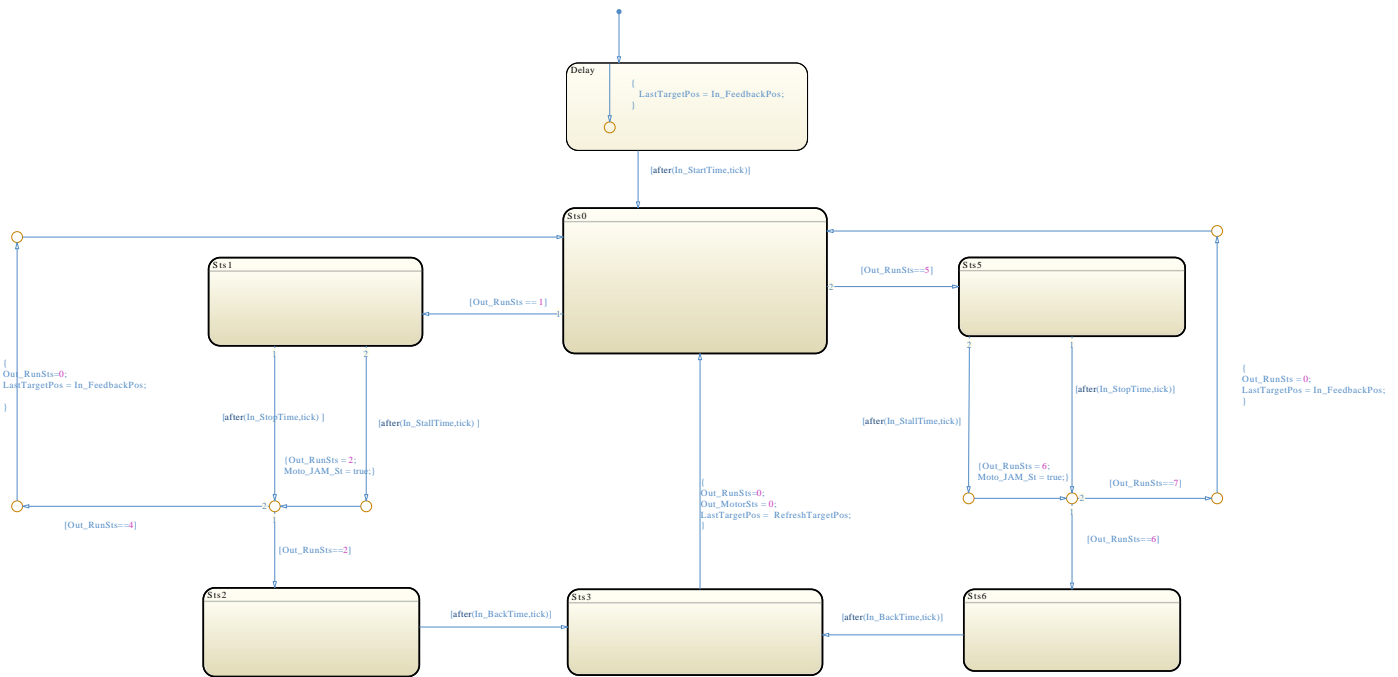


Figure 53 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Pa_Temp_Moto [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Pa_Temp_Moto]

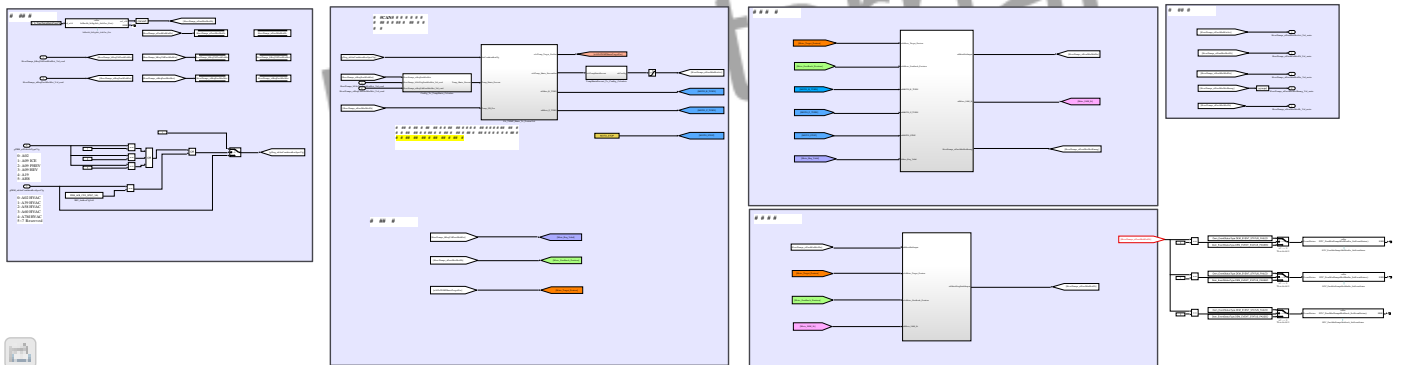


Figure 54 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Pa_Temp_Moto_CanSig_To_TempHmix_Calculate [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Pa_Temp_Moto_CanSig_To_TempHmix_Calculate]

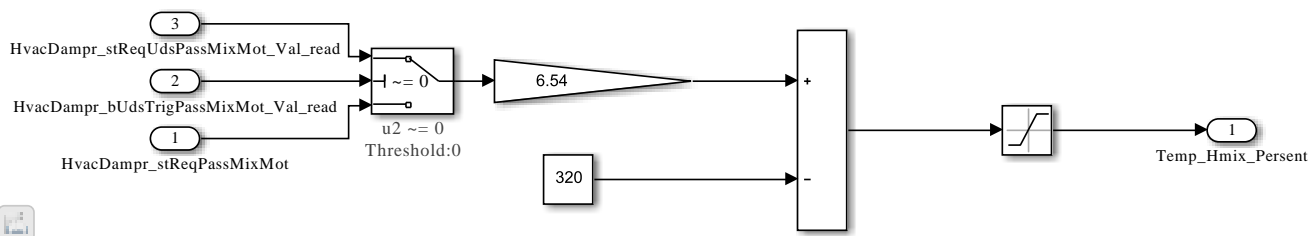


Figure 55 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Pa_Temp_Moto_PA_TEMP_Hmix_To_PostionVal [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Pa_Temp_Moto_PA_TEMP_Hmix_To_PostionVal]

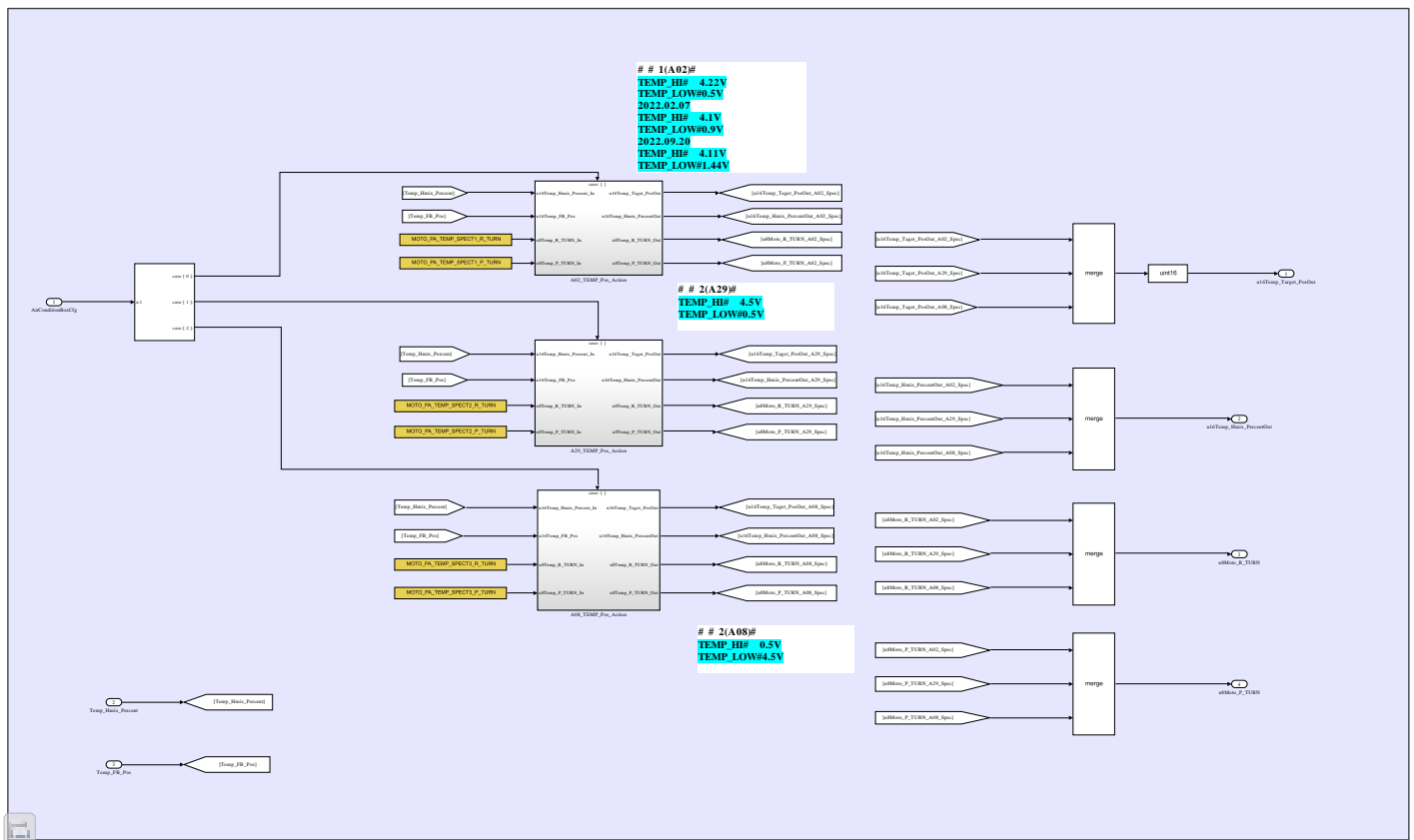


Figure 56 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Pa_Temp_Moto_PA_TEMP_Hmix_To_PostionVal_A02_TEMP_Pos_Action [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Pa_Temp_Moto_PA_TEMP_Hmix_To_PostionVal_A02_TEMP_Pos_Action]

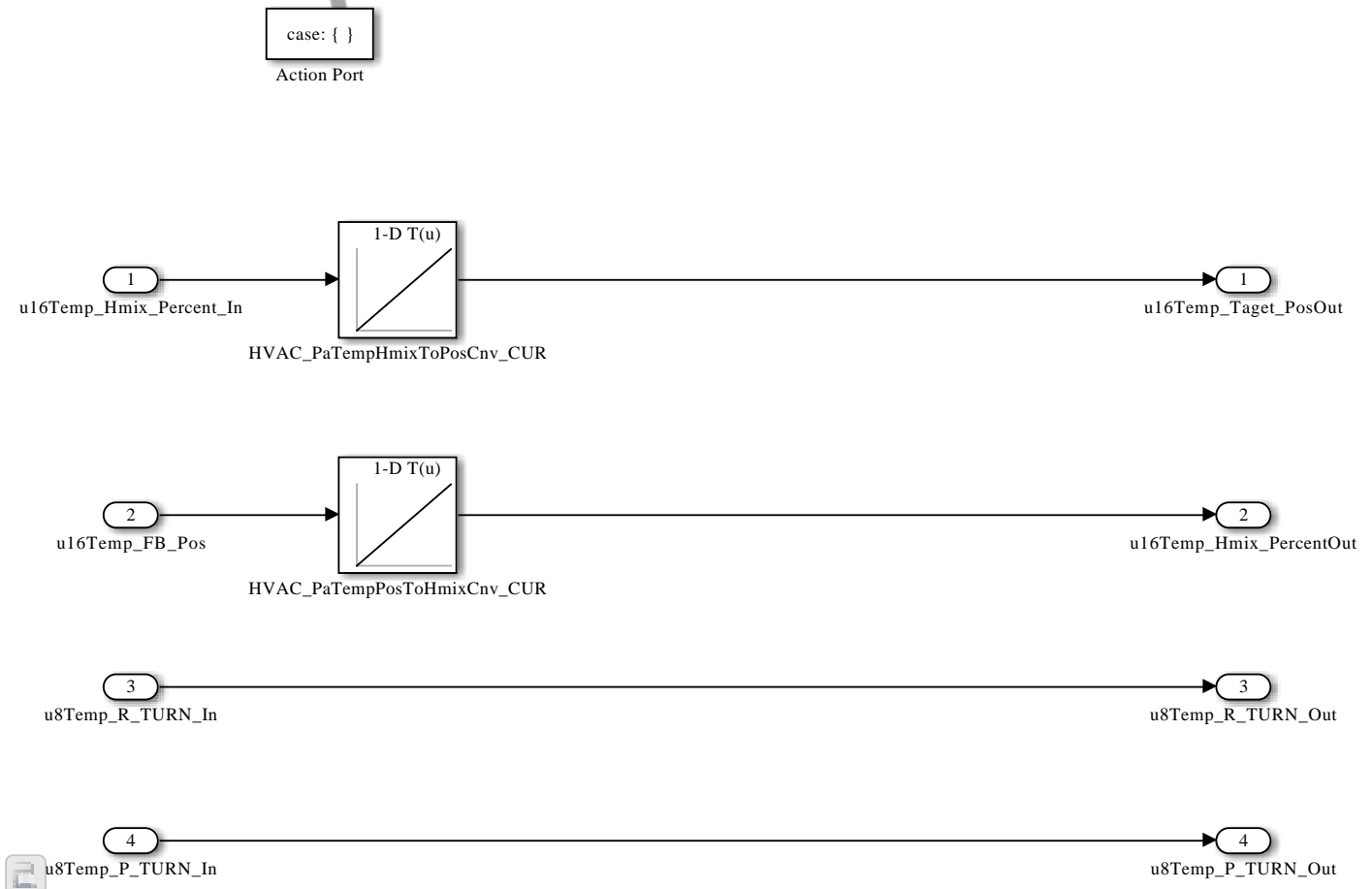


Figure 57 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Pa_Temp_Moto_PA_TEMP_Hmix_To_PostionVal_A08_TEMP_Pos_Action [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Pa_Temp_Moto_PA_TEMP_Hmix_To_PostionVal_A08_TEMP_Pos_Action]

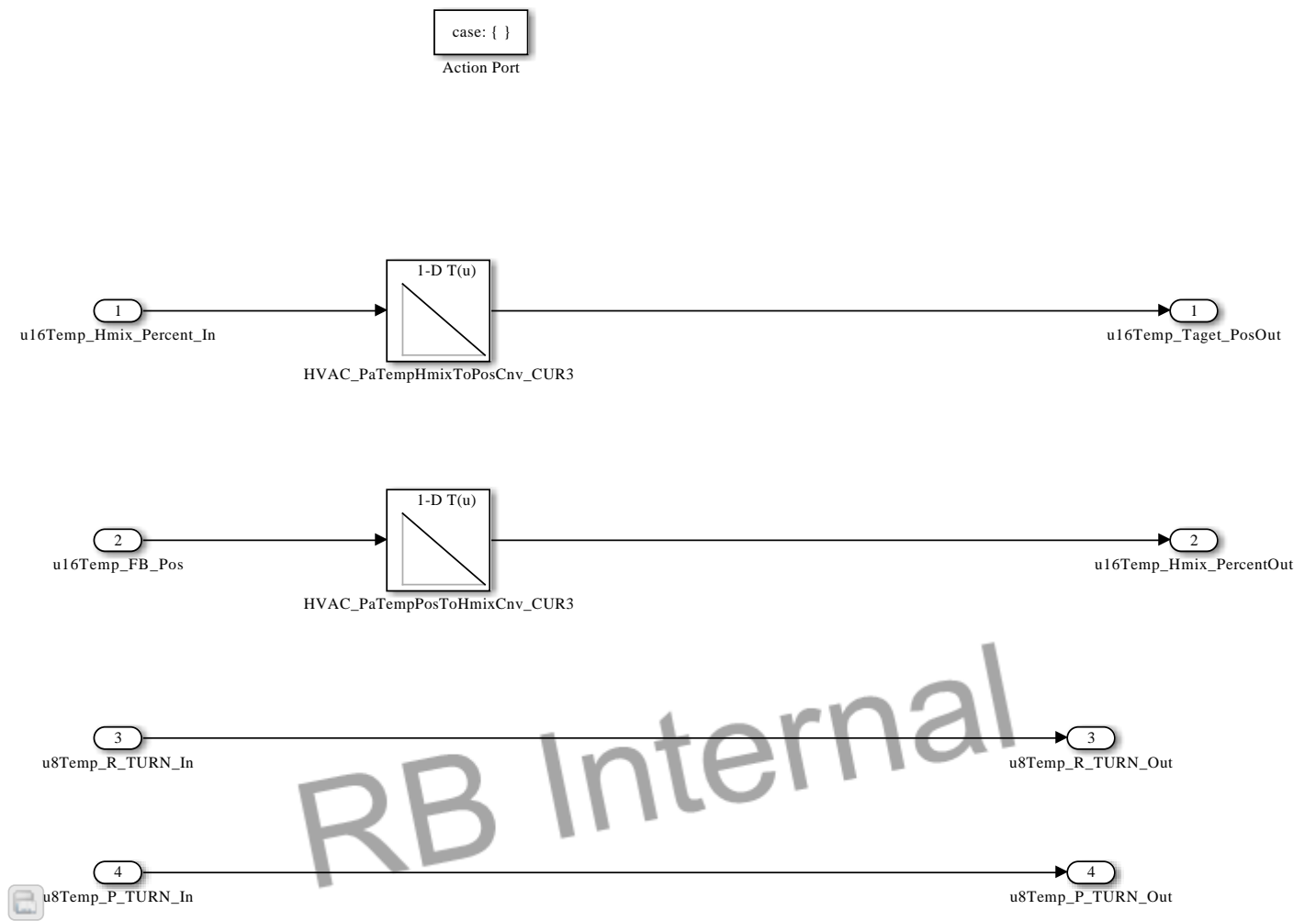


Figure 58 HvacDampCtrl_HvacDampCtrl_Runnable_10ms_sys_Pa_Temp_Moto_PA_TEMP_Hmix_To_PosionVal_A29_TEMP_Pos_Action [HvacDampCtrl_HvacDampCtrl_Runnable_10ms_sys_Pa_Temp_Moto_PA_TEMP_Hmix_To_PosionVal_A29_TEMP_Pos_Action]

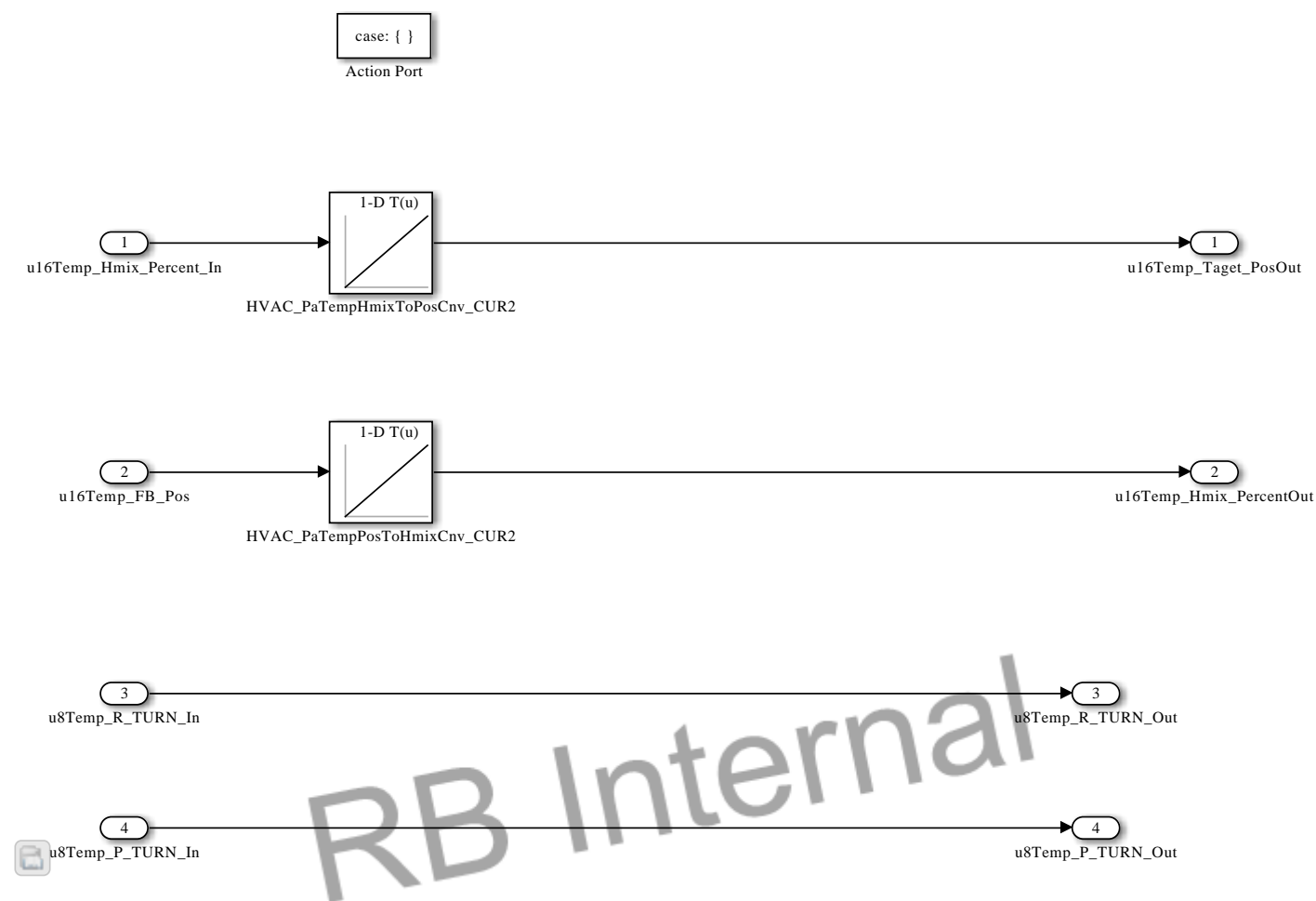


Figure 59 HvacDampCtrl_HvacDampCtrl_Runnable_10ms_sys_Pa_Temp_Moto_Subsystem [HvacDampCtrl_HvacDampCtrl_Runnable_10ms_sys_Pa_Temp_Moto_Subsystem]

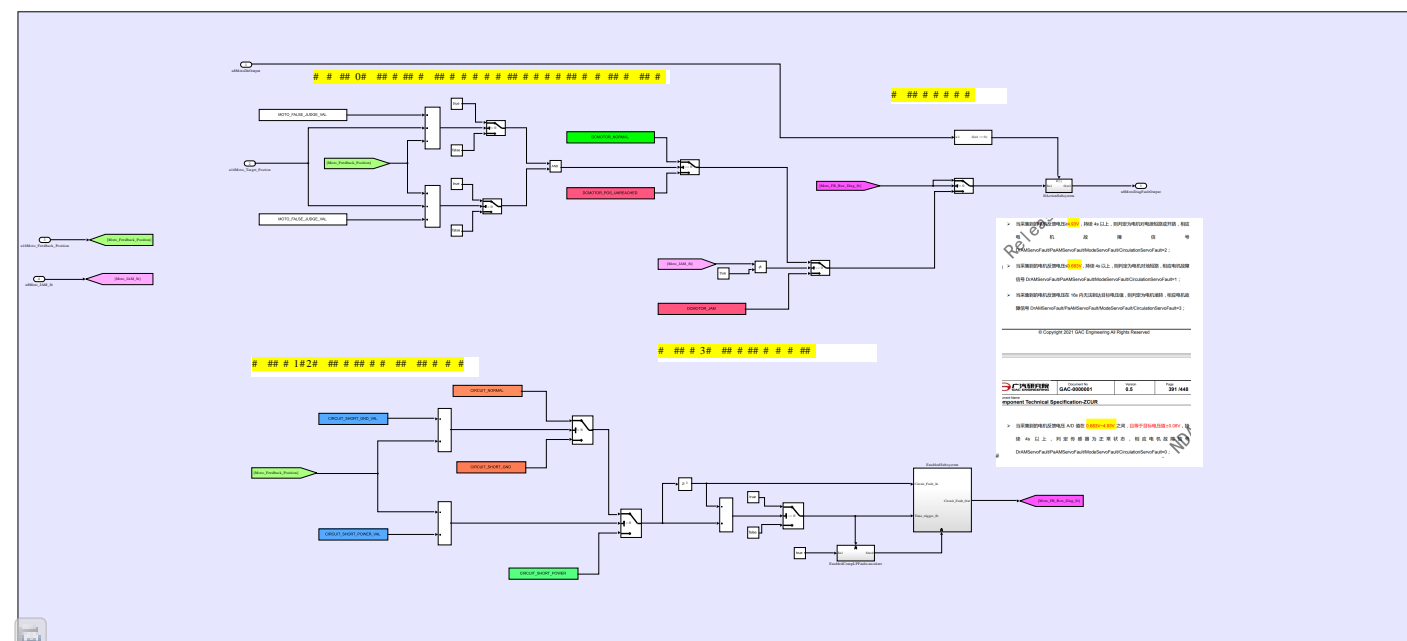




Figure 60 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Pa_Temp_Moto_Subsystem_EnabledCompLPFaultcauculate [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Pa_Temp_Moto_Subsystem_EnabledCompLPFaultcauculate]

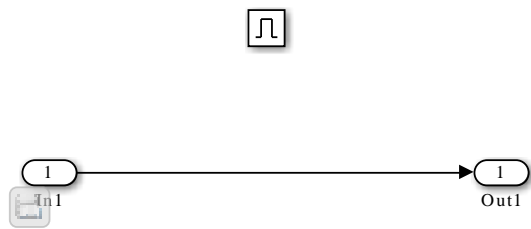


Figure 61 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Pa_Temp_Moto_Subsystem_EnabledSubsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Pa_Temp_Moto_Subsystem_EnabledSubsystem]

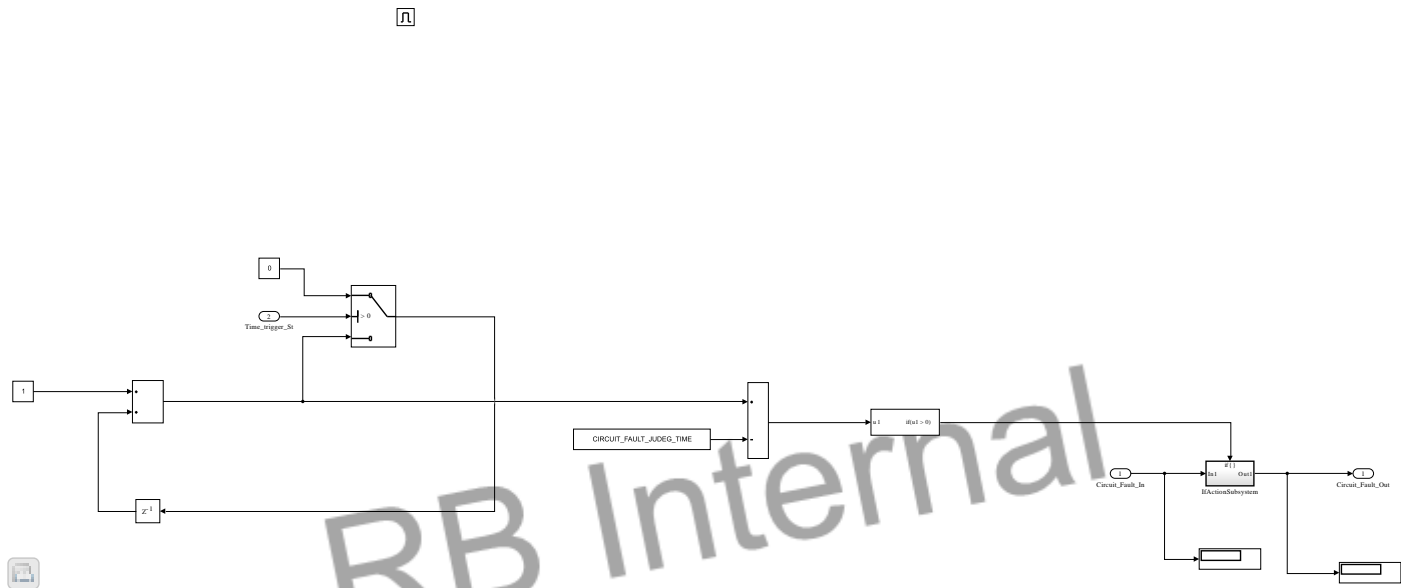


Figure 62 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Pa_Temp_Moto_Subsystem_EnabledSubsystem_IfActionSubsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Pa_Temp_Moto_Subsystem_EnabledSubsystem_IfActionSubsystem]

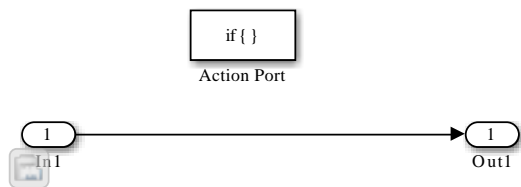
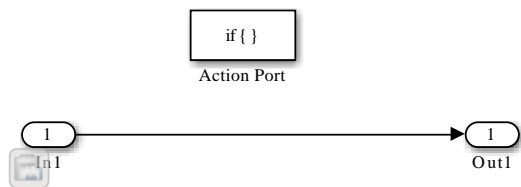
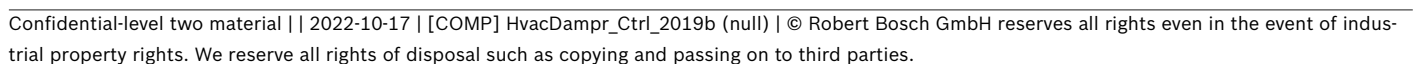
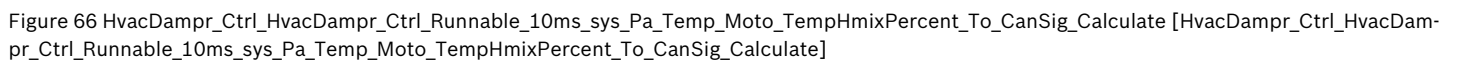
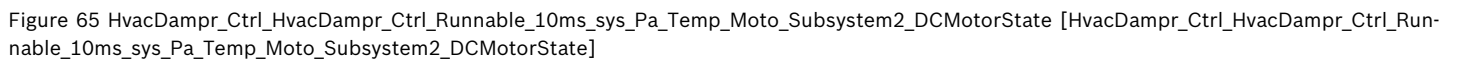


Figure 63 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Pa_Temp_Moto_Subsystem_IfActionSubsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Pa_Temp_Moto_Subsystem_IfActionSubsystem]





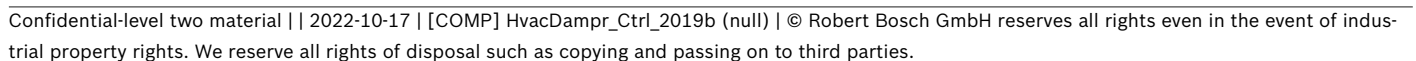
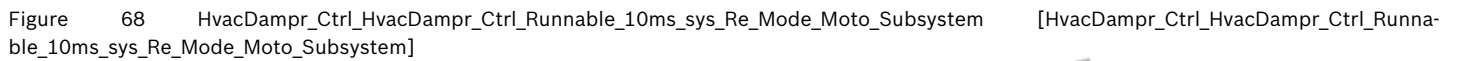


Figure 69 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Mode_Moto_Subsystem_Re_Mode_Act_Fb1 [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Mode_Moto_Subsystem_Re_Mode_Act_Fb1]

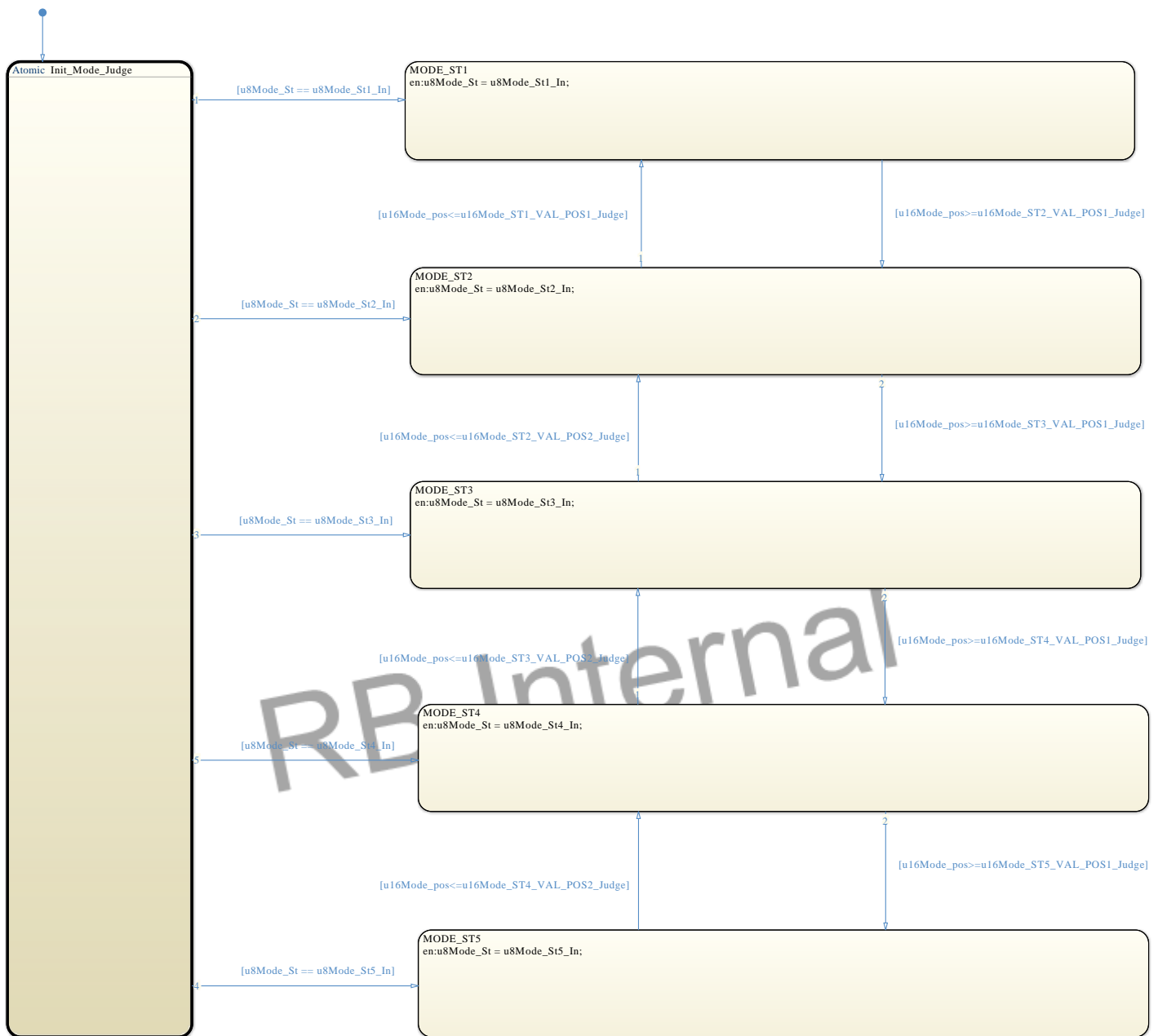


Figure 70 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Mode_Moto_Subsystem1 [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Mode_Moto_Subsystem1]

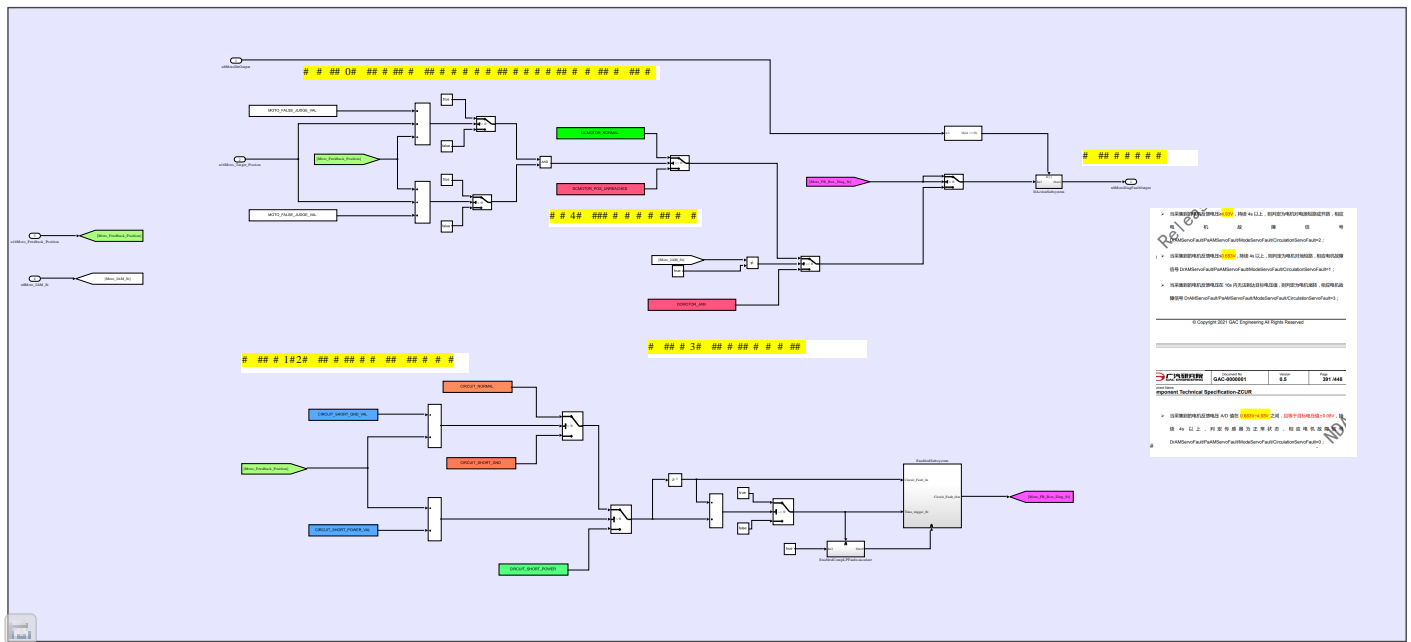


Figure 71 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Mode_Moto_Subsystem1_EnabledCompLPFaultcauculate [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Mode_Moto_Subsystem1_EnabledCompLPFaultcauculate]



Figure 72 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Mode_Moto_Subsystem1_EnabledSubsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Mode_Moto_Subsystem1_EnabledSubsystem]

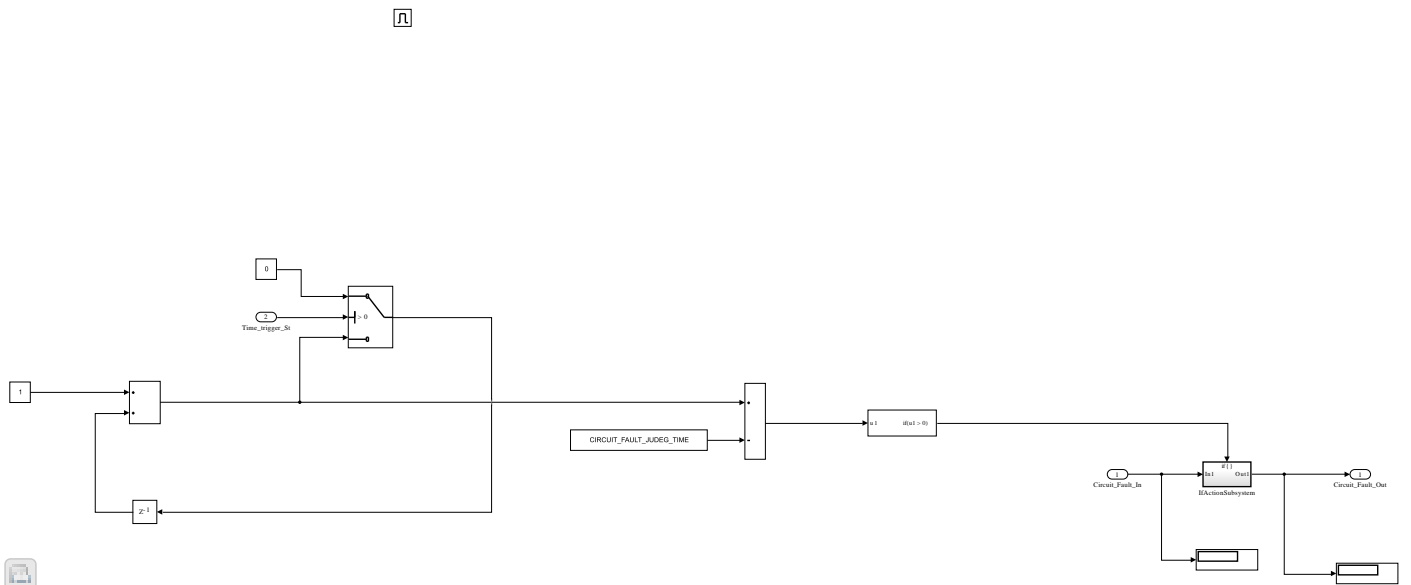


Figure 73 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Mode_Moto_Subsystem1_EnabledSubsystem_IfActionSubsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Mode_Moto_Subsystem1_EnabledSubsystem_IfActionSubsystem]

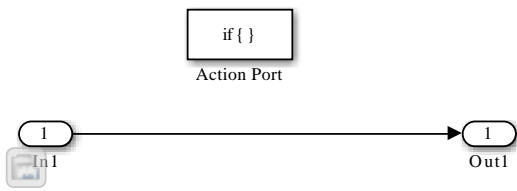


Figure 74 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Mode_Moto_Subsystem1_IfActionSubsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Mode_Moto_Subsystem1_IfActionSubsystem]

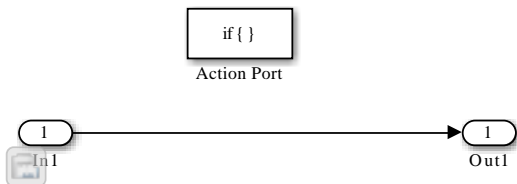


Figure 75 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Mode_Moto_Subsystem2 [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Mode_Moto_Subsystem2]

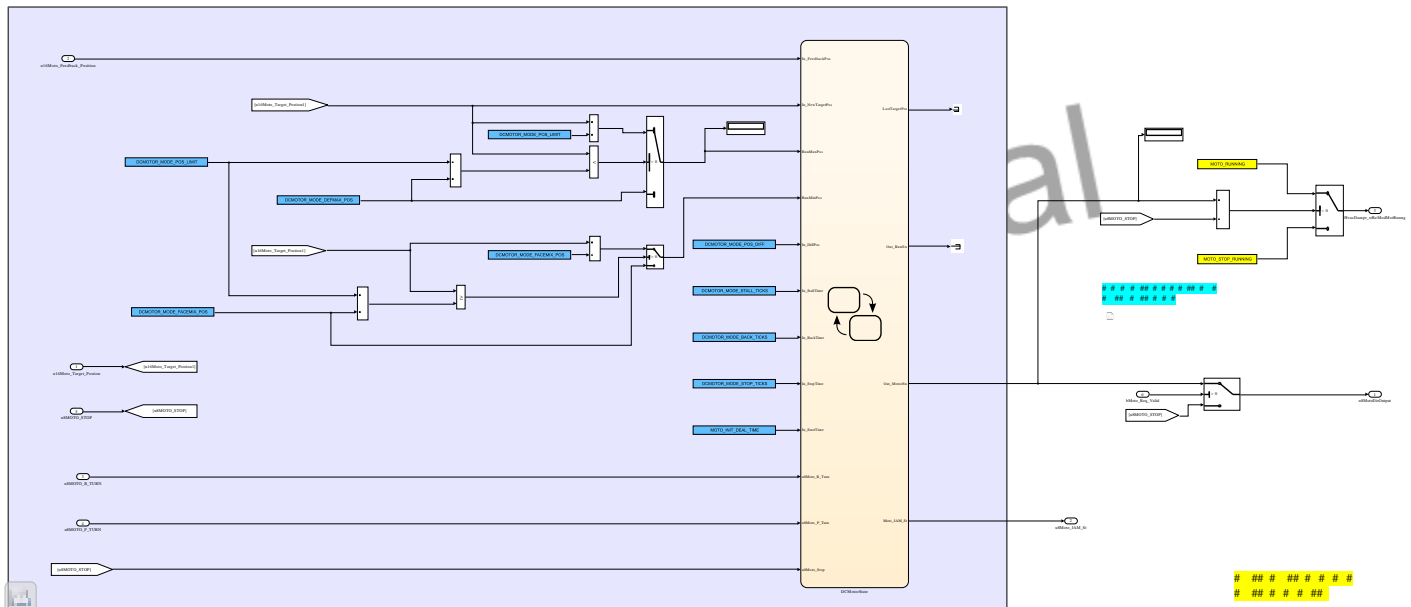


Figure 76 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Mode_Moto_Subsystem2_DCMotorState [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Mode_Moto_Subsystem2_DCMotorState]

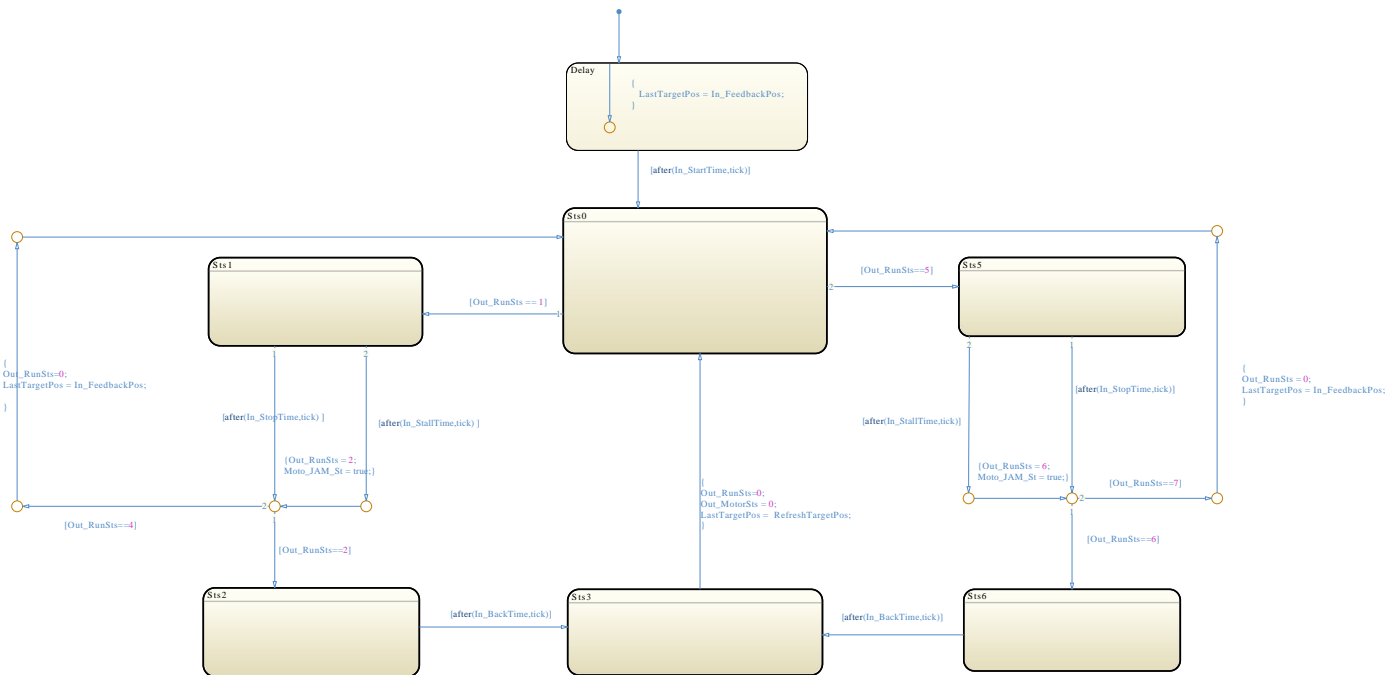


Figure 77 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto]

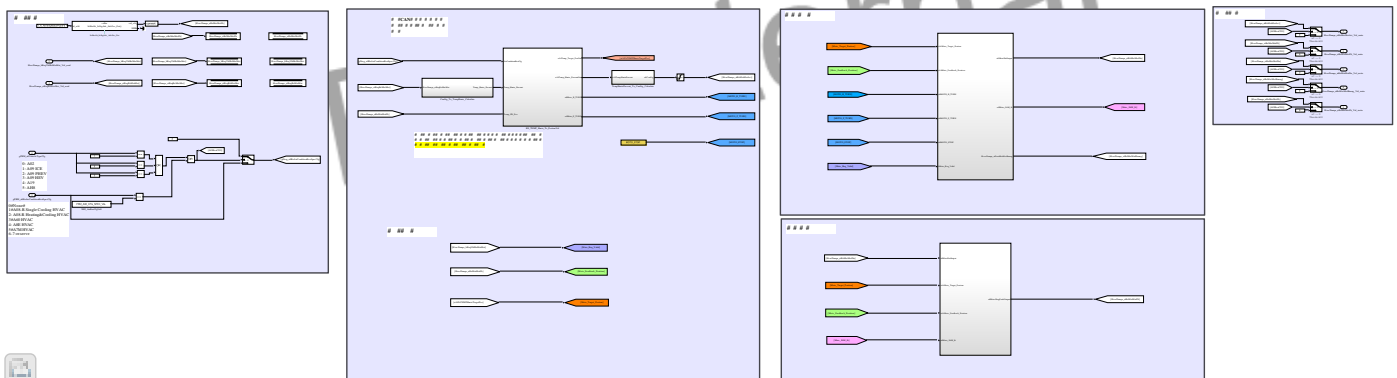


Figure 78 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_CanSig_To_TempHmix_Calculate [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_CanSig_To_TempHmix_Calculate]

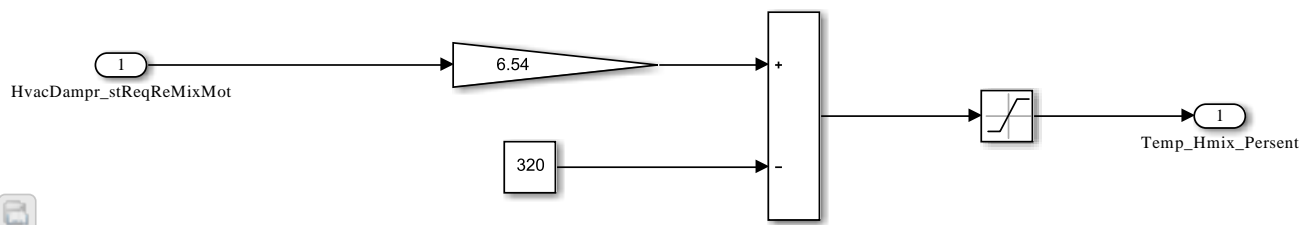


Figure 79 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_RE_TEMP_Hmix_To_PostionVal [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_RE_TEMP_Hmix_To_PostionVal]

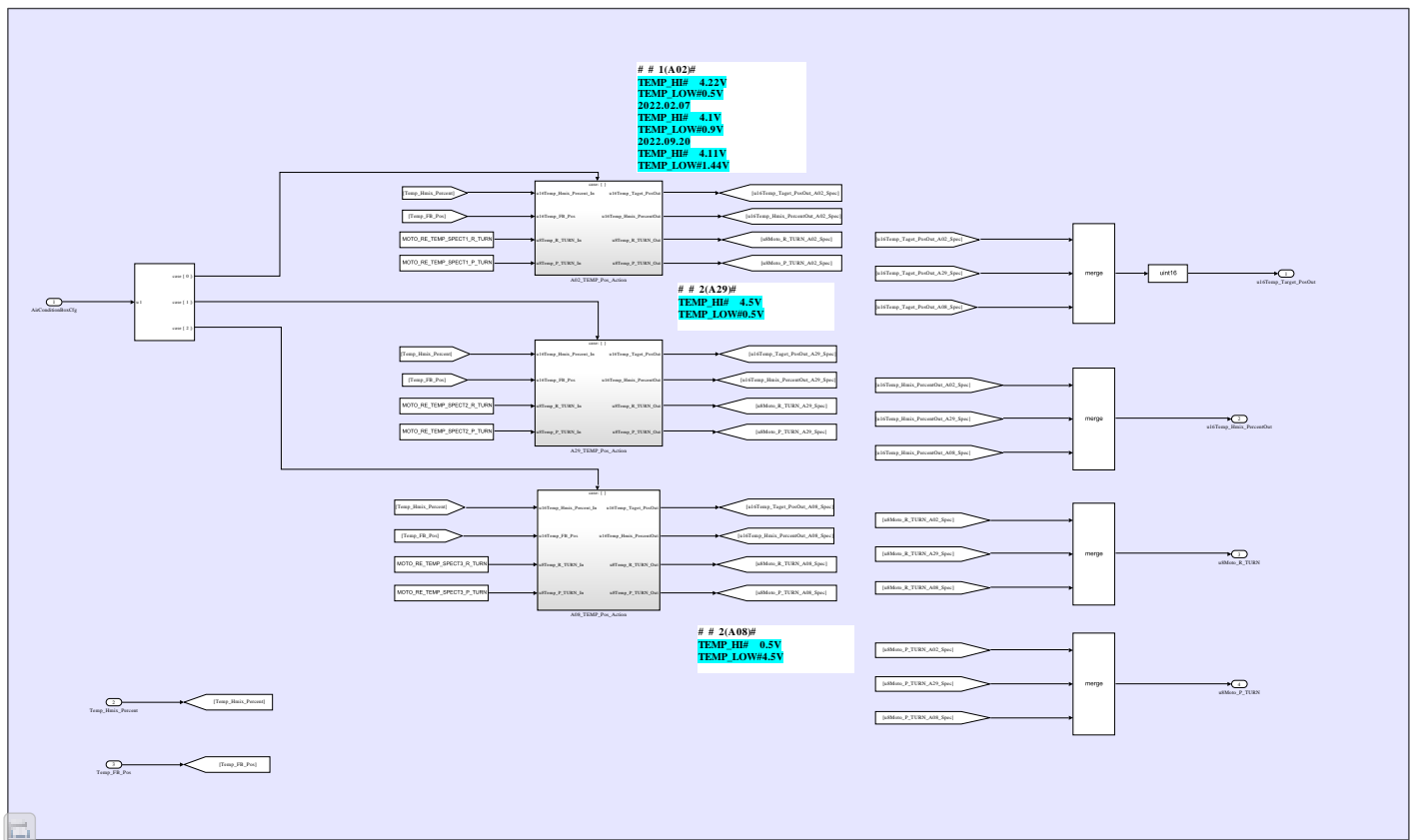


Figure 80 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_RE_TEMP_Hmix_To_PostionVal_A02_TEMP_Pos_Action [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_RE_TEMP_Hmix_To_PostionVal_A02_TEMP_Pos_Action]

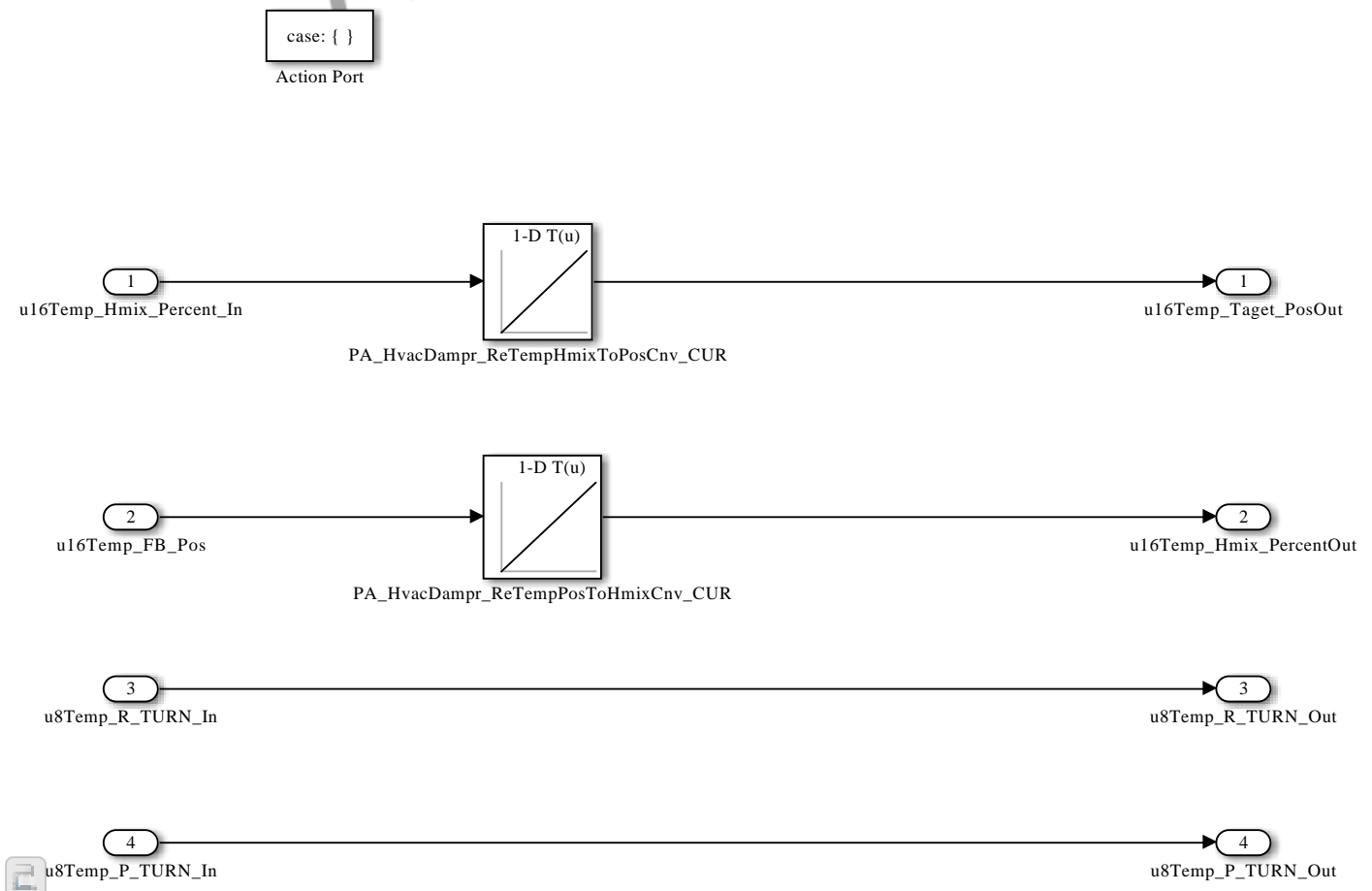




Figure 81 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_RE_TEMP_Hmix_To_PostionVal_A08_TEMP_Pos_Action [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_RE_TEMP_Hmix_To_PostionVal_A08_TEMP_Pos_Action]

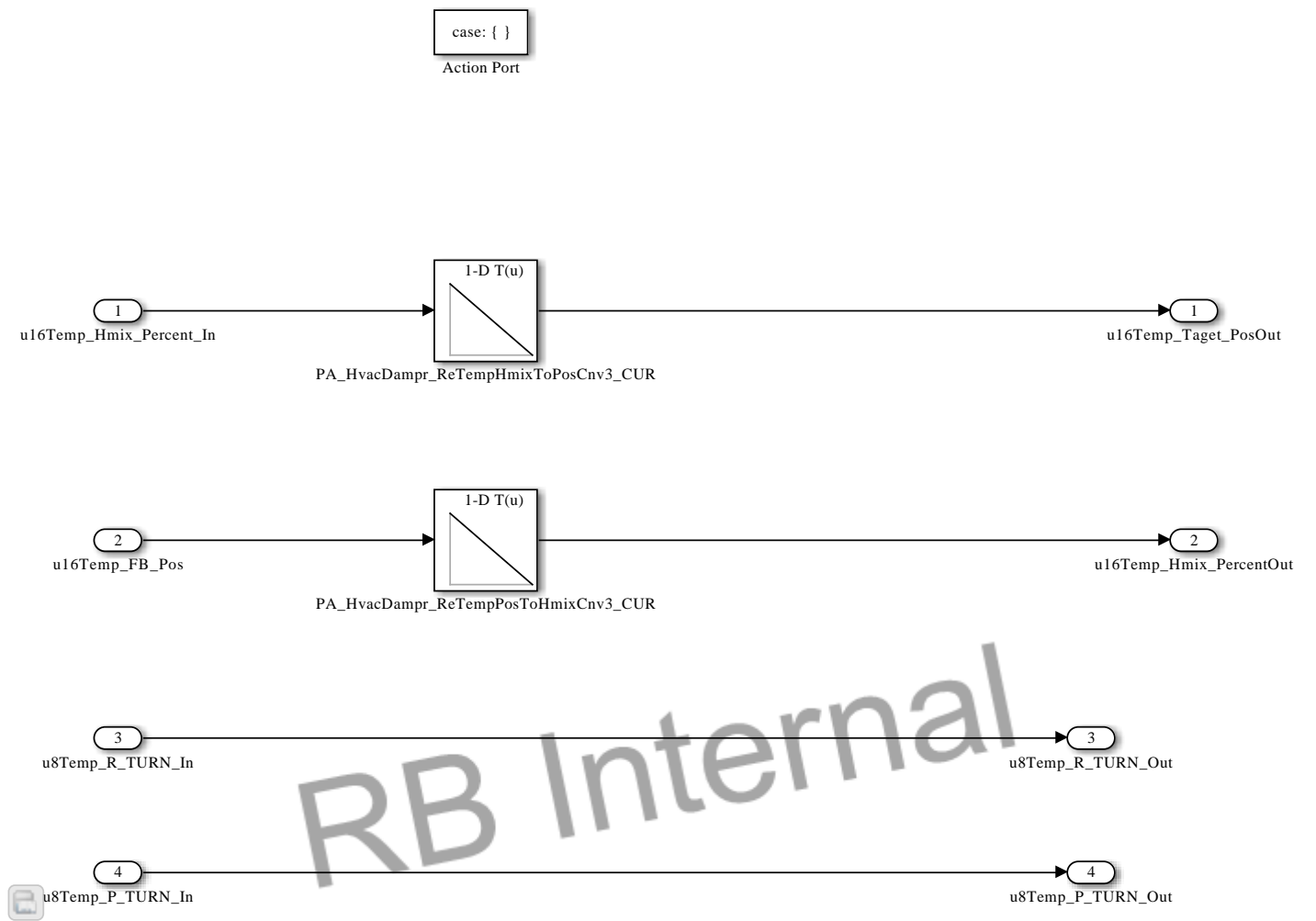


Figure 82 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_RE_TEMP_Hmix_To_PosionVal_A29_TEMP_Pos_Action [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_RE_TEMP_Hmix_To_PosionVal_A29_TEMP_Pos_Action]

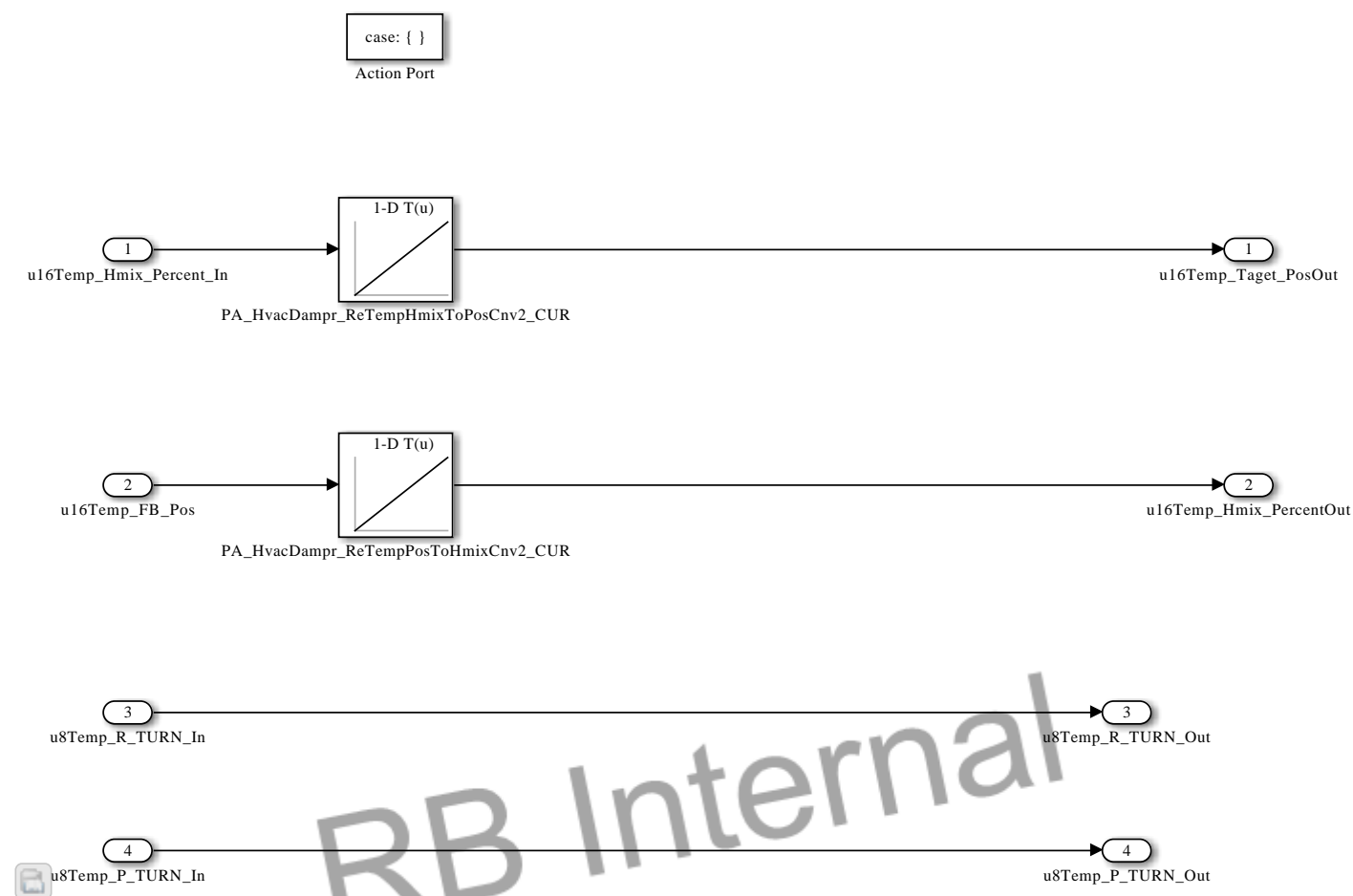


Figure 83 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_Subsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_Subsystem]

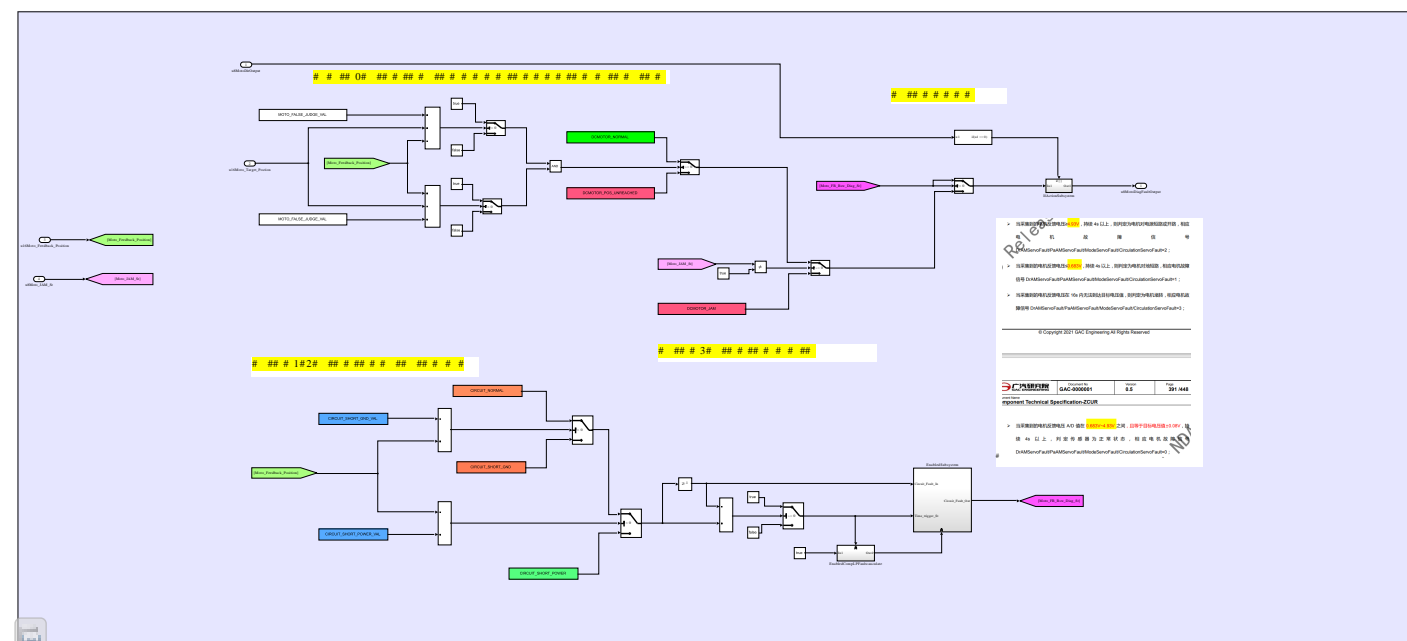




Figure 84 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_Subsystem_EnabledCompLPFaultcauculate [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_Subsystem_EnabledCompLPFaultcauculate]

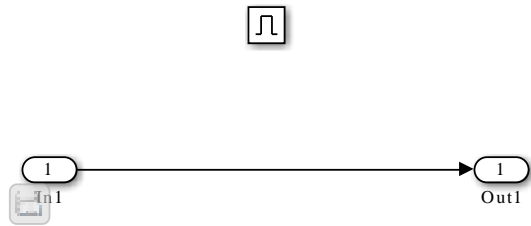


Figure 85 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_Subsystem_EnabledSubsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_Subsystem_EnabledSubsystem]

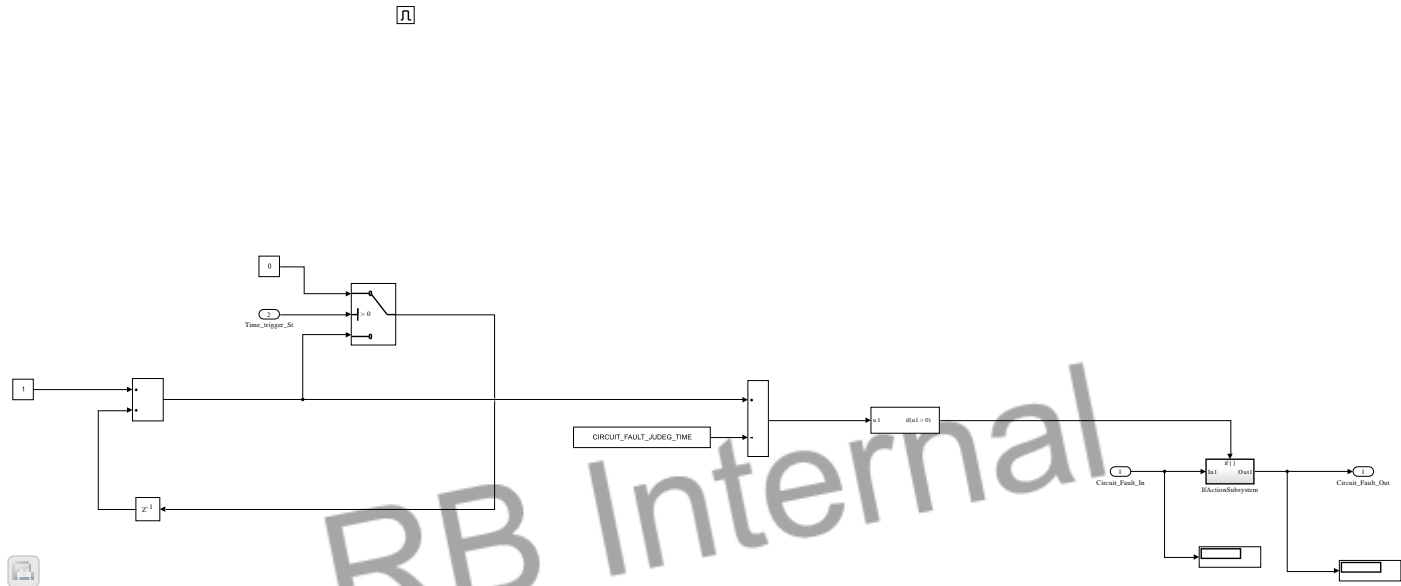


Figure 86 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_Subsystem_EnabledSubsystem_IfActionSubsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_Subsystem_EnabledSubsystem_IfActionSubsystem]

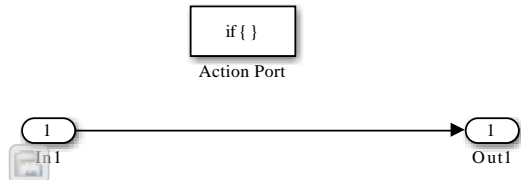


Figure 87 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_Subsystem_IfActionSubsystem [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_Subsystem_IfActionSubsystem]

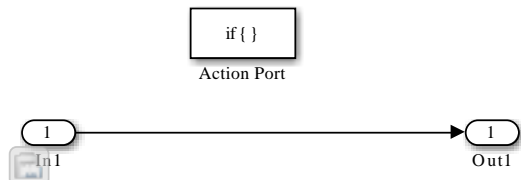


Figure 88 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_Subsystem2 [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_Subsystem2]

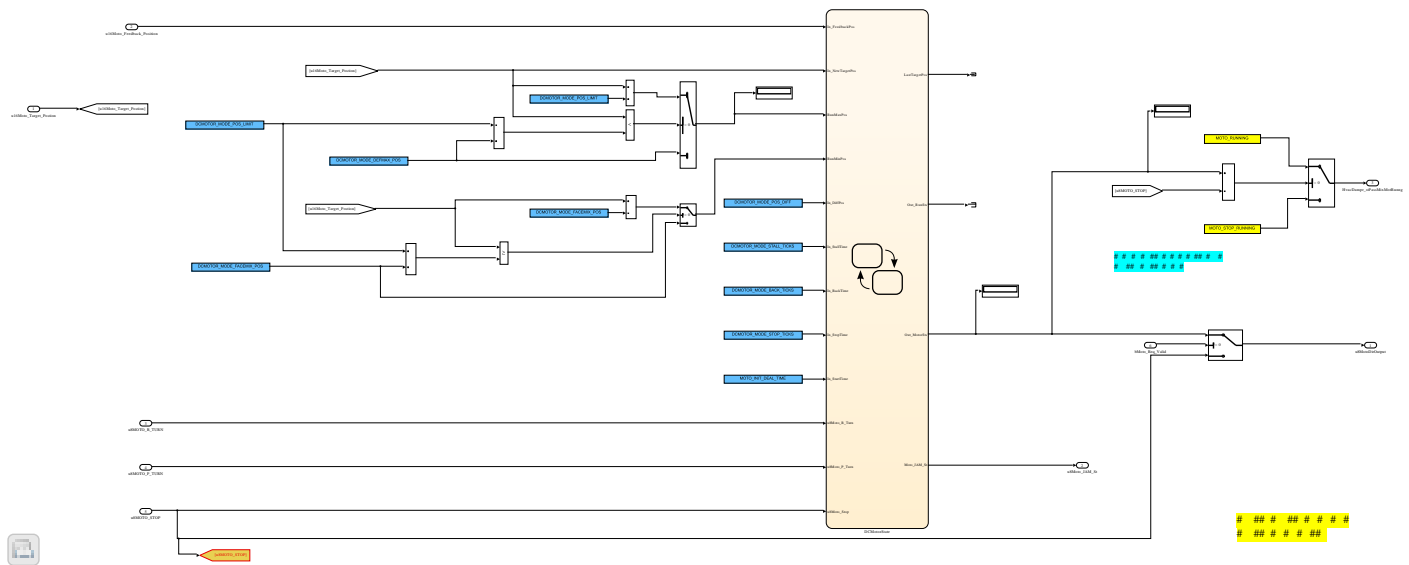


Figure 89 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_Subsystem2_DCMotorState [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_Subsystem2_DCMotorState]

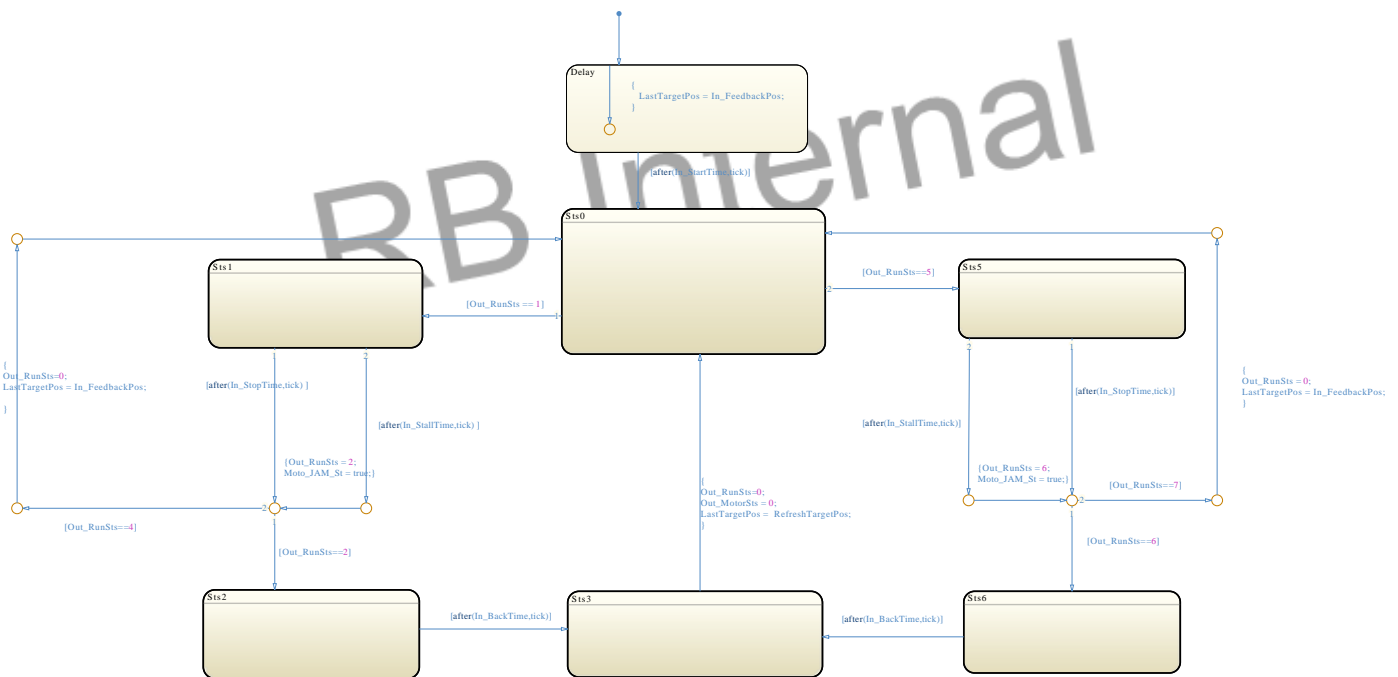


Figure 90 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_TempHmixPercent_To_CanSig_Calculate [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_10ms_sys_Re_Temp_Moto_TempHmixPercent_To_CanSig_Calculate]

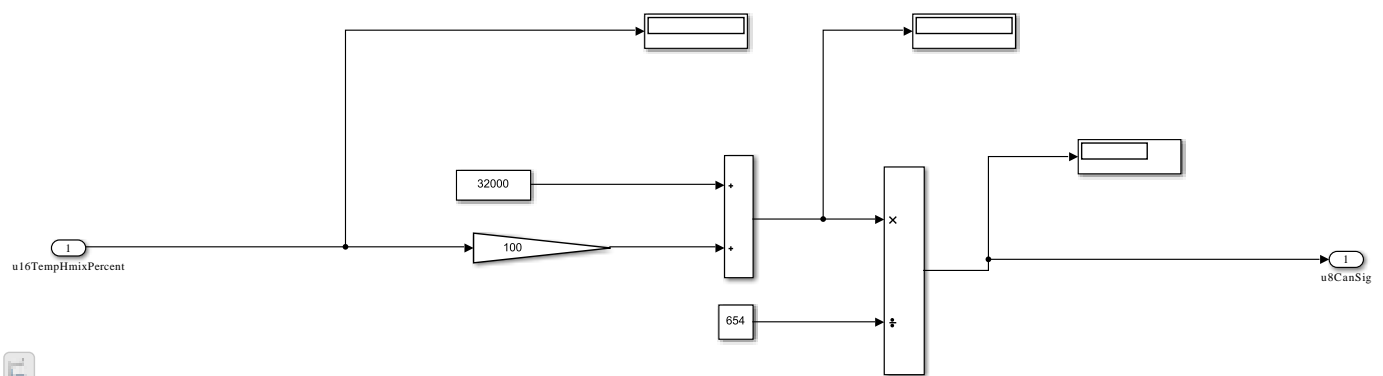


Figure 91 HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_Init [HvacDampr_Ctrl_HvacDampr_Ctrl_Runnable_Init]



Table 1 Data Types for port interfaces [PortInterfaceDataTypes]

Port	AccessMode	Interface	DE	Datatype
gCFG_u8ReHVACBoxTyp	ExplicitReceive	gCFG_u8ReHVACBoxTyp	Val	uint8
gPRM_bHotpumpCfg	ExplicitReceive	gPRM_bHotpumpCfg	Val	boolean
gPRM_u8AirConditionBoxSpecCfg	ExplicitReceive	gPRM_u8AirConditionBoxSpecCfg	Val	uint8
gPRM_u8ReAirConditionBoxSpecCfg	ExplicitReceive	gPRM_u8ReAirConditionBoxSpecCfg	Val	uint8
gPRM_u8VehicleTypeCfg	ExplicitReceive	gPRM_u8VehicleTypeCfg	Val	uint8
HvacDampr_bReqVldDrvrMixMot	ExplicitReceive	HvacDampr_bReqVldDrvrMixMot	Val	boolean
HvacDampr_bReqVldDrvrRcrlnMot	ExplicitReceive	HvacDampr_bReqVldDrvrRcrlnMot	Val	boolean
HvacDampr_bReqVldMotMot	ExplicitReceive	HvacDampr_bReqVldMotMot	Val	boolean
HvacDampr_bReqVldPassMixMot	ExplicitReceive	HvacDampr_bReqVldPassMixMot	Val	boolean
HvacDampr_bReqVldPassRcrlnMot	ExplicitReceive	HvacDampr_bReqVldPassRcrlnMot	Val	boolean
HvacDampr_bReqVldRcrlnMot	ExplicitReceive	HvacDampr_bReqVldRcrlnMot	Val	boolean
HvacDampr_bReqVldReMixMot	ExplicitReceive	HvacDampr_bReqVldReMixMot	Val	boolean
HvacDampr_bReqVldReMotMot	ExplicitReceive	HvacDampr_bReqVldReMotMot	Val	boolean
HvacDampr_bUdsTrigDrvrRcrlnMot	ExplicitReceive	HvacDampr_bUdsTrigDrvrRcrlnMot	Val	boolean
HvacDampr_bUdsTrigModMot	ExplicitReceive	HvacDampr_bUdsTrigModMot	Val	boolean
HvacDampr_bUdsTrigPassMixMot	ExplicitReceive	HvacDampr_bUdsTrigPassMixMot	Val	boolean
HvacDampr_bUdsTrigPassRcrlnMot	ExplicitReceive	HvacDampr_bUdsTrigPassRcrlnMot	Val	boolean
HvacDampr_bUdsTrigPsgrMixMot	ExplicitReceive	HvacDampr_bUdsTrigPsgrMixMot	Val	boolean
HvacDampr_bUdsTrigRcrlnMot	ExplicitReceive	HvacDampr_bUdsTrigRcrlnMot	Val	boolean
HvacDampr_stReqDrvrMixMot	ExplicitReceive	HvacDampr_stReqDrvrMixMot	Val	uint8
HvacDampr_stReqDrvrRcrlnMot	ExplicitReceive	HvacDampr_stReqDrvrRcrlnMot	Val	uint8
HvacDampr_stReqMotMot	ExplicitReceive	HvacDampr_stReqMotMot	Val	uint8
HvacDampr_stReqPassMixMot	ExplicitReceive	HvacDampr_stReqPassMixMot	Val	uint8
HvacDampr_stReqPassRcrlnMot	ExplicitReceive	HvacDampr_stReqPassRcrlnMot	Val	uint8
HvacDampr_stReqRcrlnMot	ExplicitReceive	HvacDampr_stReqRcrlnMot	Val	uint8
HvacDampr_stReqReMixMot	ExplicitReceive	HvacDampr_stReqReMixMot	Val	uint8
HvacDampr_stReqReMotMot	ExplicitReceive	HvacDampr_stReqReMotMot	Val	uint8
HvacDampr_stReqUdsDrvrRcrlnMot	ExplicitReceive	HvacDampr_stReqUdsDrvrRcrlnMot	Val	uint8

Port	AccessMode	Interface	DE	Datatype
HvacDampr_stReqUdsMod-Mot	ExplicitReceive	HvacDampr_stReqUdsMod-Mot	Val	uint8
HvacDampr_stReqUdsPass-MixMot	ExplicitReceive	HvacDampr_stReqUdsPass-MixMot	Val	uint8
HvacDampr_stReqUdsPas-sRcrltnMot	ExplicitReceive	HvacDampr_stReqUdsPas-sRcrltnMot	Val	uint8
HvacDampr_stReqUdsPsgr-MixMot	ExplicitReceive	HvacDampr_stReqUdsPsgr-MixMot	Val	uint8
HvacDampr_stReqUdsR-crltnMot	ExplicitReceive	HvacDampr_stReqUdsR-crltnMot	Val	uint8
HvacDampr_stDrvrMixMotAct	ExplicitSend	HvacDampr_stDrvrMixMotAct	Val	uint8
HvacDampr_stDrvrMixMotDir	ExplicitSend	HvacDampr_stDrvrMixMotDir	Val	uint8
HvacDampr_stDrvrMixMotFlt	ExplicitSend	HvacDampr_stDrvrMixMotFlt	Val	uint8
HvacDampr_stDrvrMixMotRunng	ExplicitSend	HvacDampr_stDrvrMixMotRunng	Val	uint8
HvacDampr_stDrvrRcrltnMotAct	ExplicitSend	HvacDampr_stDrvrRcrltnMotAct	Val	uint8
HvacDampr_stDrvrRcrltnMotDir	ExplicitSend	HvacDampr_stDrvrRcrltnMotDir	Val	uint8
HvacDampr_stDrvrRcrltnMotFlt	ExplicitSend	HvacDampr_stDrvrRcrltnMotFlt	Val	uint8
HvacDampr_stDrvrRcrltnMotRunng	ExplicitSend	HvacDampr_stDrvrRcrltnMotRunng	Val	uint8
HvacDampr_stModMotAct	ExplicitSend	HvacDampr_stModMotAct	Val	uint8
HvacDampr_stModMotDir	ExplicitSend	HvacDampr_stModMotDir	Val	uint8
HvacDampr_stModMotFlt	ExplicitSend	HvacDampr_stModMotFlt	Val	uint8
HvacDampr_stModMotRunng	ExplicitSend	HvacDampr_stModMotRunng	Val	uint8
HvacDampr_stPassMixMotAct	ExplicitSend	HvacDampr_stPassMixMotAct	Val	uint8
HvacDampr_stPassMixMotDir	ExplicitSend	HvacDampr_stPassMixMotDir	Val	uint8
HvacDampr_stPassMixMotFlt	ExplicitSend	HvacDampr_stPassMixMotFlt	Val	uint8
HvacDampr_stPassMixMotRunng	ExplicitSend	HvacDampr_stPassMixMotRunng	Val	uint8
HvacDampr_stPassRcrltnMotAct	ExplicitSend	HvacDampr_stPassRcrltnMotAct	Val	uint8
HvacDampr_stPassRcrltnMotDir	ExplicitSend	HvacDampr_stPassRcrltnMotDir	Val	uint8
HvacDampr_stPassRcrltnMotFlt	ExplicitSend	HvacDampr_stPassRcrltnMotFlt	Val	uint8
HvacDampr_stPassRcrltnMotRunng	ExplicitSend	HvacDampr_stPassRcrltnMotRunng	Val	uint8
HvacDampr_stRcrltnMotAct	ExplicitSend	HvacDampr_stRcrltnMotAct	Val	uint8
HvacDampr_stRcrltnMotDir	ExplicitSend	HvacDampr_stRcrltnMotDir	Val	uint8
HvacDampr_stRcrltnMotFlt	ExplicitSend	HvacDampr_stRcrltnMotFlt	Val	uint8
HvacDampr_stRcrltnMotRunng	ExplicitSend	HvacDampr_stRcrltnMotRunng	Val	uint8
HvacDampr_stReMixMotAct	ExplicitSend	HvacDampr_stReMixMotAct	Val	uint8
HvacDampr_stReMixMotDir	ExplicitSend	HvacDampr_stReMixMotDir	Val	uint8
HvacDampr_stReMixMotFlt	ExplicitSend	HvacDampr_stReMixMotFlt	Val	uint8

Port	AccessMode	Interface	DE	Datatype
HvacDampr_stReMixMotRunng	ExplicitSend	HvacDampr_stReMixMotRunng	Val	uint8
HvacDampr_stReModMotAct	ExplicitSend	HvacDampr_stReModMotAct	Val	uint8
HvacDampr_stReModMotDir	ExplicitSend	HvacDampr_stReModMotDir	Val	uint8
HvacDampr_stReModMotFlt	ExplicitSend	HvacDampr_stReModMotFlt	Val	uint8
HvacDampr_stReModMotRunng	ExplicitSend	HvacDampr_stReModMotRunng	Val	uint8
HvacDampr_uDrvrMixMotFb	ExplicitSend	HvacDampr_uDrvrMixMotFb	Val	uint16
HvacDampr_uDrvrRcrltnMotFb	ExplicitSend	HvacDampr_uDrvrRcrltnMotFb	Val	uint16
HvacDampr_uModMotFb	ExplicitSend	HvacDampr_uModMotFb	Val	uint16
HvacDampr_uPassMixMotFb	ExplicitSend	HvacDampr_uPassMixMotFb	Val	uint16
HvacDampr_uPassRcrltnMotFb	ExplicitSend	HvacDampr_uPassRcrltnMotFb	Val	uint16
HvacDampr_uRcrltnMotFb	ExplicitSend	HvacDampr_uRcrltnMotFb	Val	uint16
HvacDampr_uReMixMotFb	ExplicitSend	HvacDampr_uReMixMotFb	Val	uint16
HvacDampr_uReModMotFb	ExplicitSend	HvacDampr_uReModMotFb	Val	uint16

3 Conversion forms

Table 2 Conversion forms

Name	Category	Unit	Contents int
CM_Fac_q0p001	LINEAR		f(phys) := 1000phys
CM_Frq_q0p1_Hz	LINEAR	Hz	f(phys) := 10phys
CM_I_q0p25_mA	LINEAR	mA	f(phys) := 4phys
CM_N_q1_rpm	LINEAR		f(phys) := 1phys
CM_P_q2_hPa	LINEAR	hPa	f(phys) := 1phys / 2
CM_Perc_q0p0122_Perc	LINEAR	%	f(phys) := 81.92phys
CM_T_q0p1_o273p14_DegC	LINEAR	DegC	f(phys) := (10phys--2731.3999999999996)
CM_Ti_q0p001_s	LINEAR		f(phys) := 1000phys
CM_Ti_q1_us	LINEAR	us	f(phys) := 1phys
CM_U_q1_mV	LINEAR	mV	f(phys) := 1phys
CM_boolean	TEXTTABLE		(FALSE, 0), (TRUE, 1)
Dem_DTCFormatType	TEXTTABLE		(DEM_DTC_FORMAT_OBD, 0), (DEM_DTC_FORMAT_UDS, 1), (DEM_DTC_FORMAT_J1939, 2)
Dem_DebounceResetStatusType	TEXTTABLE		(DEM_DEBOUNCE_STATUS_FREEZE, 0), (DEM_DEBOUNCE_STATUS_RESET, 1)
Dem_EventStatusType	TEXTTABLE		(DEM_EVENT_STATUS_PASSED, 0), (DEM_EVENT_STATUS_FAILED, 1), (DEM_EVENT_STATUS_PREPASSED, 2), (DEM_EVENT_STATUS_PREFAILED, 3), (DEM_EVENT_STATUS_FDC_THRESHOLD_REACHED, 4), (DEM_EVENT_STATUS_PASSED_CONDITIONS_NOT_FULFILLED, 5), (DEM_EVENT_STATUS_FAILED_CONDITIONS_NOT_FULFILLED, 6), (DEM_EVENT_STATUS_PREPASSED_CONDITIONS_NOT_FULFILLED, 7), (DEM_EVENT_STATUS_PREFAILED_CONDITIONS_NOT_FULFILLED, 8)
Dem_UdsStatusByteType	SCALE_LINEAR_AND_TEXTTABLE		
Identcl	IDENTICAL		
boolean_CompuMethod	TEXTTABLE		(FALSE, 0), (TRUE, 1)

II Production Note

Table 3 Configuration chosen for DocuNG

Parameter	Value
User	
Project Name	GAC_ZCUT_FRM_C0Sample
Generator Mode	Continue on non-fatal error
Ascet graphic generator engine	UnifiedGraphicGenerator
Matlab graphic generator engine	UnifiedGraphicGenerator
DocType	CDGBookAllDetailed
Condition Evaluation	true
Title Page Logo	
Print Algorithms To Review	true
Support Fallback Language	true
Print List Of Converted System Constants	true
Create Label Alias Mapping	true
HTML	false
PDF	true
PDF: Language	EN - English
PDF: Links in Graphics	true
PDF: Line Numbers	false
PDF: Confidential Level 2	true
PDF: Docu Security Option	false

Table 4 Version Information

Program Module	Version
Product	AEEE-Pro 2020.2.0