Motor subsystem

2 accelerator_break

var >0 ==> acceleration var<0 ==> break

Scope2

Scope

torque_max
Torque

Scope1

torque N.m
1

min
toruqe

Product1

1 speed rpm

2*pi/60
radp/s

abs(power_max /u(1))
torque

Product

Power_mec
2

0.5*tanh(-u(1)+rpm_max)+0.5
smooth triger

Scope3

1/motor_eff
Efficiency

Power_AC
3

+
−
Add

|u|
Abs

4 Motor_loss