

Load Characteristic LDVFD_A

Load Characteristic LDVFD_A Variable Frequency Drive Model

Dynamic Model Parameters

K1
T1
K2
T2
Pmax
Qmax

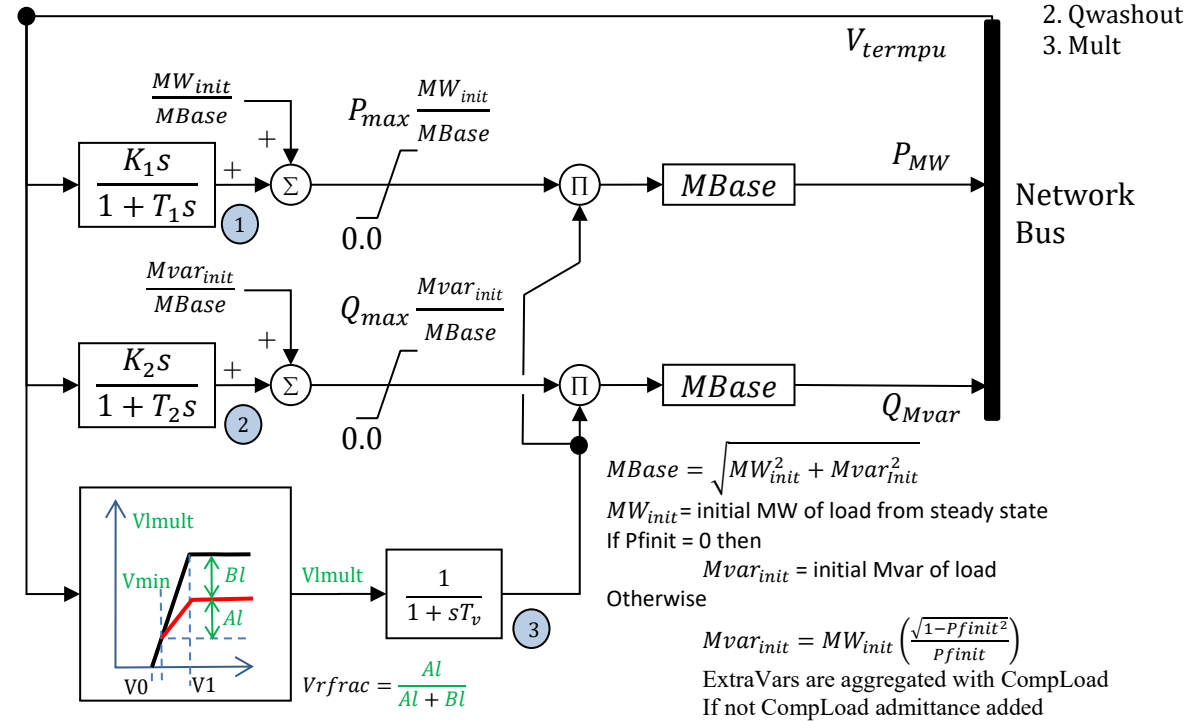
DER A Style

Undervoltage Tripping

V0
V1
Tv0
Tv1
Vrfrac
Tv

Initialization of Q parameter

Pfinit (must be positive)



See pseudo code in the DER A machine model documentation for more information

V_{mult} always tracks the black line until following conditions are met. If the voltage stays below v_1 for a duration greater than tv_1 , then it will now always follow the path of the red line when the voltage recovers. If the voltage stays below v_0 for greater than tv_0 , then the output will always remain at zero.

V_{rfrac} determines the location of the red lines showing what factor returns after tripping.

V_{min} = track lowest value of voltage (state 1) after the Tv_1 timer has expired