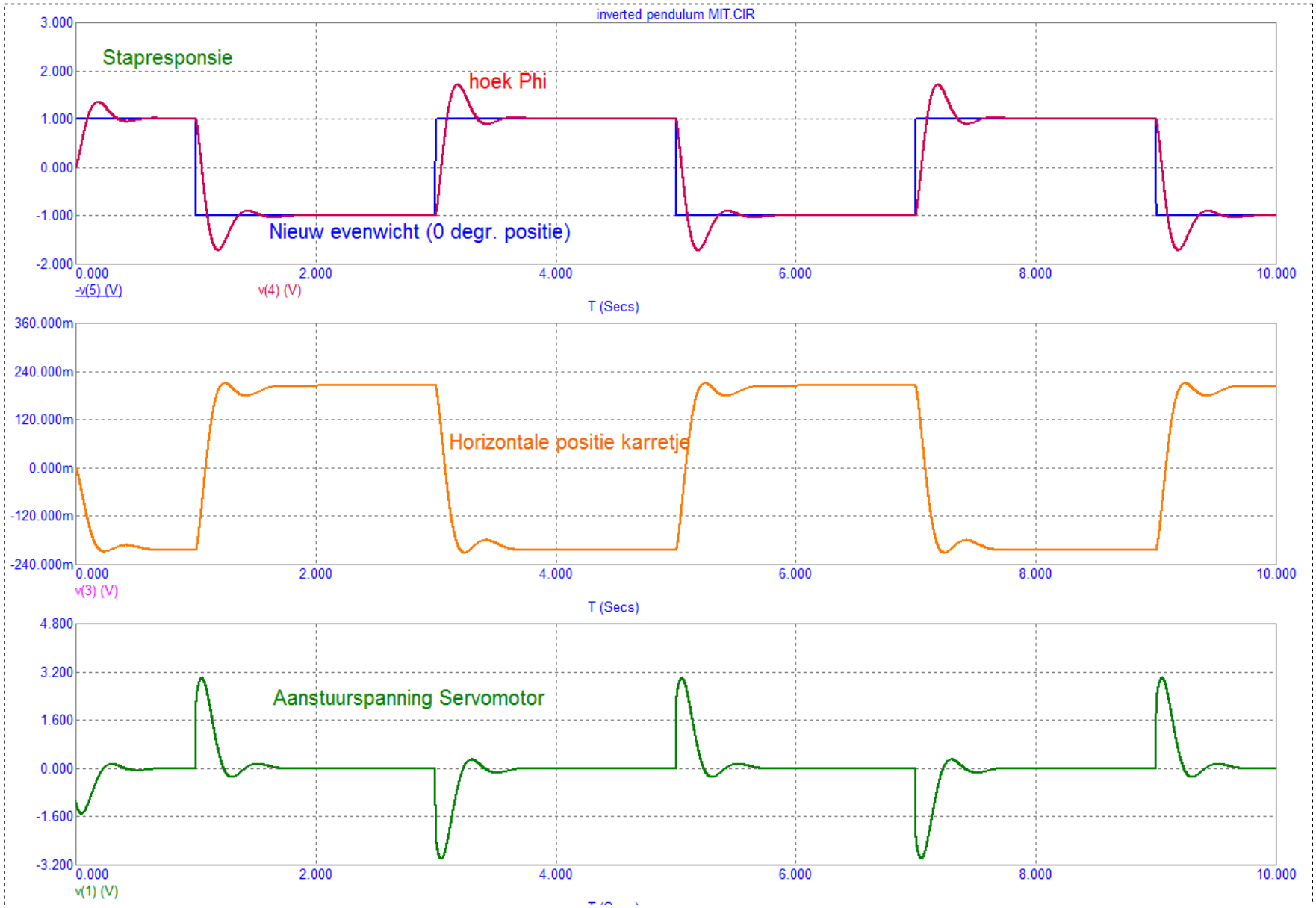
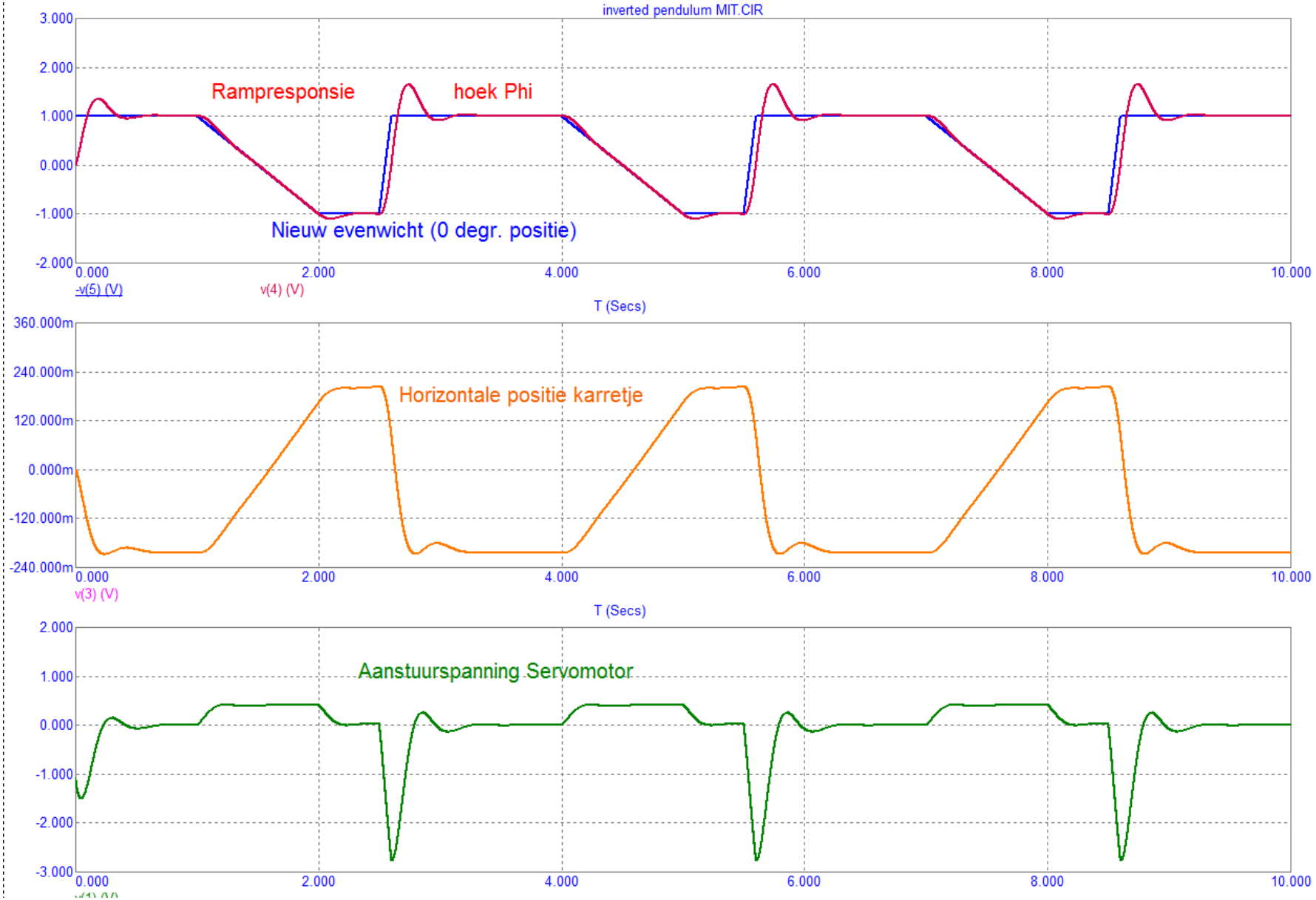
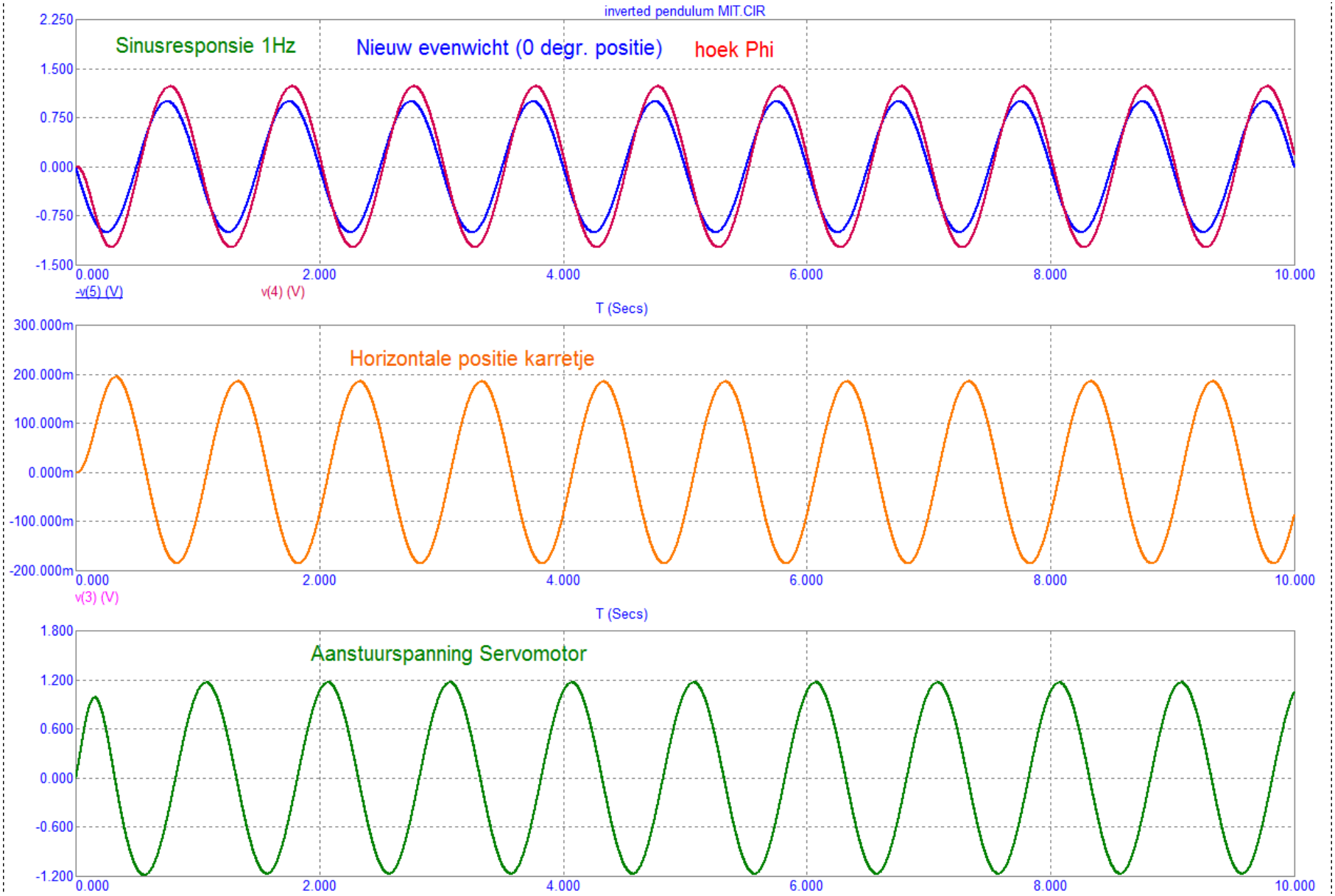
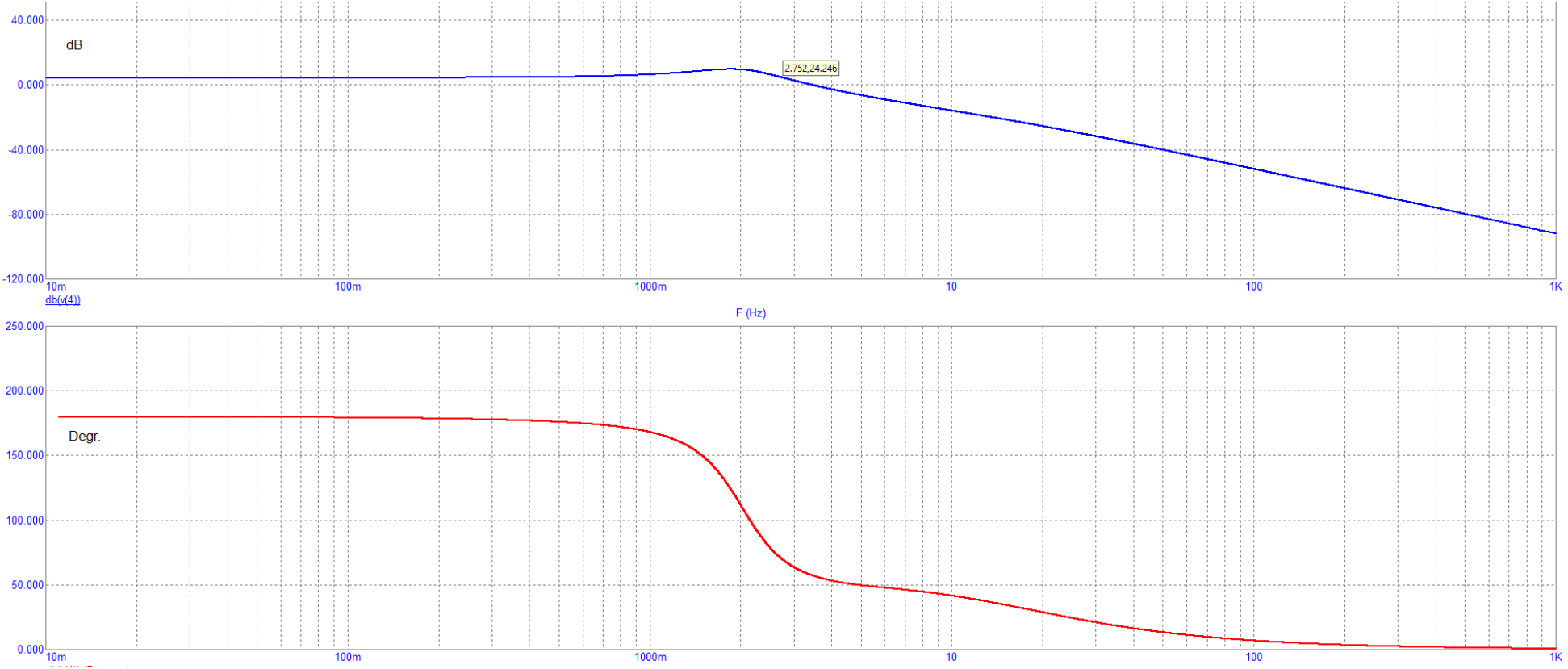
$\tau_K = 40ms \quad \tau_M = 10ms \quad \tau_L$ =100ms




inverted pendulum MIT.CIR
3.000
2.000
1.000
0.000
-1.000
-2.000
Rampresponsie
hoek Phi
Nieuw evenwicht (0 degr. positie)
0.000
2.000
4.000
6.000
8.000
10.000
-v(5) (V)
v(4) (V)
T (Secs)
360.000m
240.000m
120.000m
0.000m
-120.000m
-240.000m
Horizontale positie karretje
v(3) (V)
T (Secs)
2.000
1.000
0.000
-1.000
-2.000
-3.000
Aanstuurspanning Servomotor


inverted pendulum MIT.CIR
Sinusresponsie 1Hz
Nieuw evenwicht (0 degr. positie)
hoek Phi
2.250
1.500
0.750
0.000
-0.750
-1.500
0.000
2.000
4.000
6.000
8.000
10.000
-v(5) (V)
v(4) (V)
T (Secs)
300.000m
200.000m
100.000m
0.000m
-100.000m
-200.000m
Horizontale positie karretje
v(3) (V)
T (Secs)
1.800
1.200
0.600
0.000
-0.600
-1.200
Aanstuurspanning Servomotor

BODEPLOT Closed-Loop System  (0.01Hz – 1kHz)