Transfer function: $$G(s) = \frac{K}{\tau s + 1}$$

ω_{max}	30.0000	pwm_{max}	100	$0.632\omega_{max}$	18.96
K	0.3				
T_1	5.047				
T_2	5.1716				
τ	0.1246				
τ_c	0.1				
K_p	4.153333333				
K_i	33.33333333				
K_b	8.025682183				

Type	Motor 1 - ccw	Motor 1 - cw	Motor 2 - ccw	Motor 2 - cw
K_p	4.7500	5.3645	4.2406	4.1533
K_i	31.2500	32.2581	31.2500	33.3333
K_b	6.5789	6.0132	7.3692	8.0257
ω_{max}	32.0000	31.0000	32.0000	30.0000

Rotation State	ccw	cw
IN1	0	1
IN2	1	0

Motor	1	2
Forward	cw	ccw
Backward	ccw	cw