

Họ và tên: Trần Thị Thủy

Lớp: TDH15

Mã sinh viên: 16151172

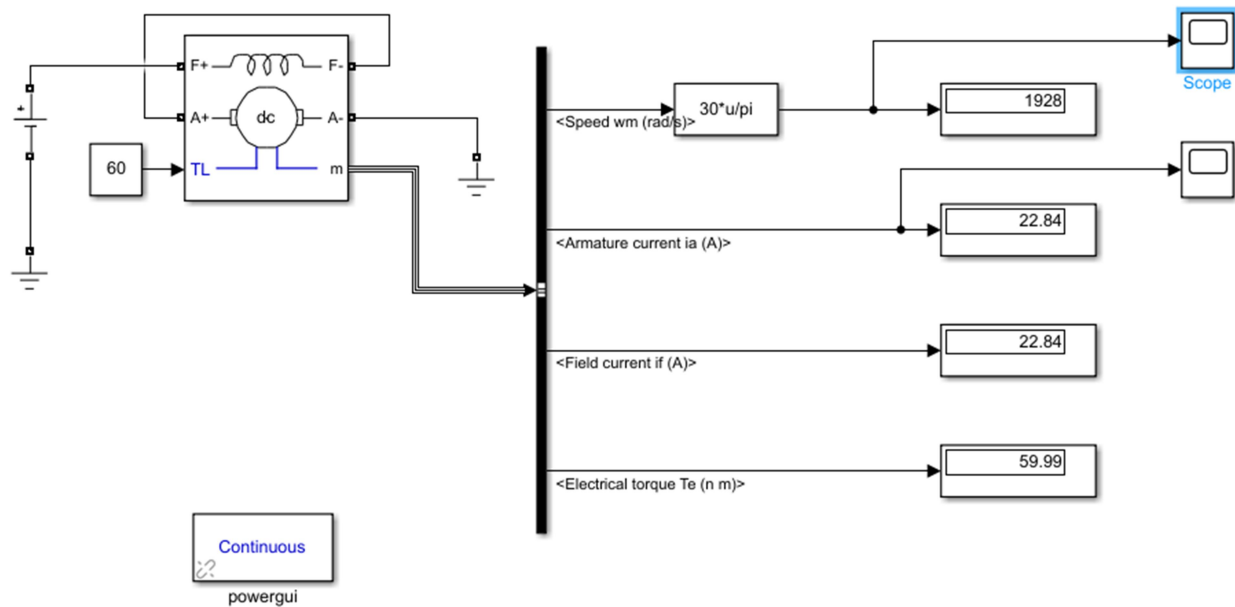
Ngày sinh: 26/12/1998

Bài 1:

Điện áp $U=660V$

M	10	20	30	40	50	60
Tốc độ (vòng /phút)	5405	3684	2922	2467	2157	1928

Mô phỏng trên simulink:



Thông số động cơ:

Block Parameters: DC Machine

DC machine (mask) (link)

Implements a (wound-field or permanent magnet) DC machine.
For the wound-field DC machine, access is provided to the field connections so that the machine can be used as a separately excited, shunt-connected or a series-connected DC machine.

Configuration Parameters Advanced

Armature resistance and inductance [R_a (ohms) L_a (H)] [0.37 0.009]

Field resistance and inductance [R_f (ohms) L_f (H)] [5.31 0.01]

Field-armature mutual inductance L_{af} (H) : 0.115

Total inertia J (kg.m^2) 0.001

Viscous friction coefficient B_m (N.m.s) 0

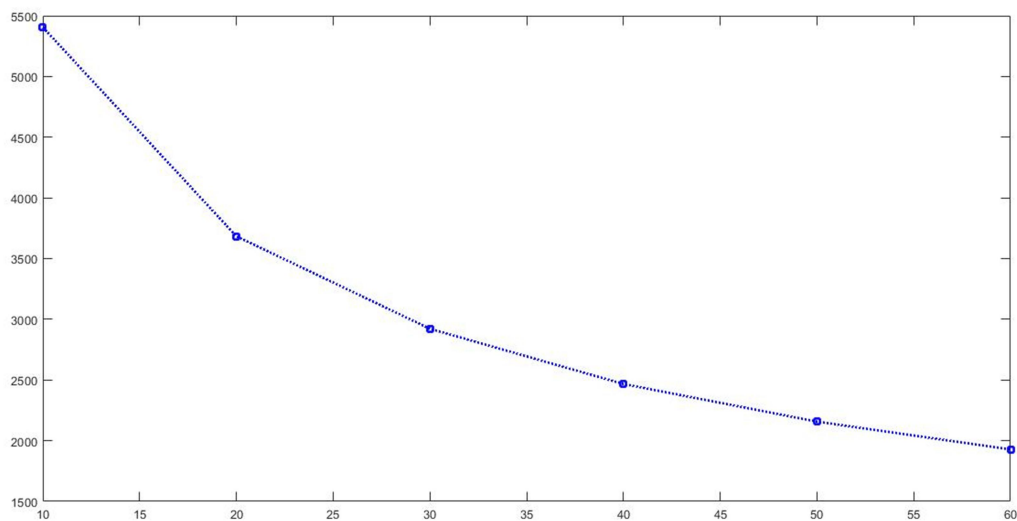
Coulomb friction torque T_f (N.m) 0

Initial speed (rad/s) : 1

Initial field current: 1

OK Cancel Help Apply

Đặc tính cơ của động cơ:

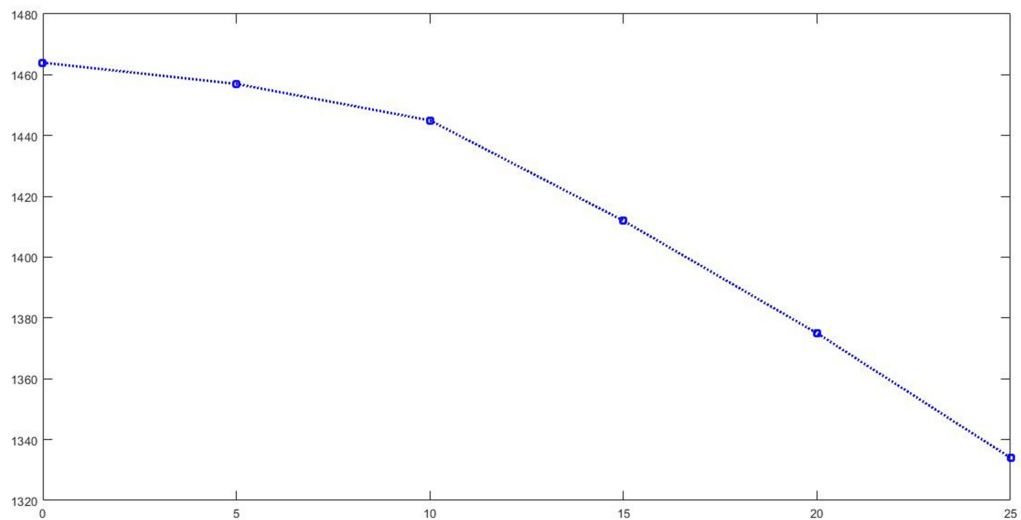


Bài 2:

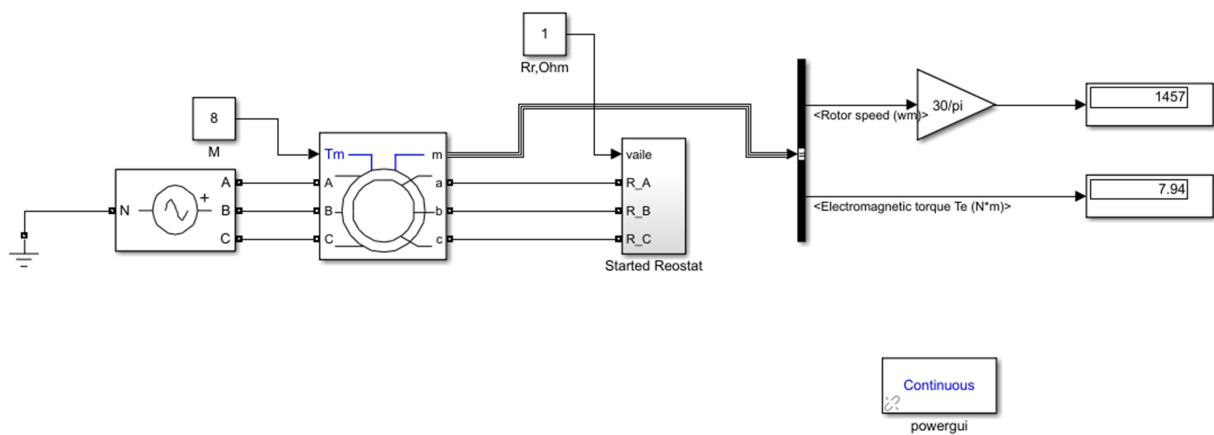
Kết quả:

M	0	8	10	15	20	25
Tốc độ (vòng /phút)	1464	1457	1445	1412	1375	1334

Đặc tính cơ:



Mô phỏng trên simulink



Thông số:

Block Parameters: Asynchronous Machine SI Units1

Asynchronous Machine (mask) (link)

Implements a three-phase asynchronous machine (wound rotor, squirrel cage or double squirrel cage) modeled in a selectable dq reference frame (rotor, stator, or synchronous). Stator and rotor windings are connected in wye to an internal neutral point.

Configuration Parameters Load Flow

Nominal power, voltage (line-line), and frequency [Pn(VA), Vn(Vrms), fn(Hz)]: [1000 380 50]

Stator resistance and inductance [Rs(ohm) Lls(H)]: [3.28 0.0039]

Rotor resistance and inductance [Rr'(ohm) Llr'(H)]: [1.167 0.0039]

Mutual inductance Lm (H): 0.1671

Inertia, friction factor, pole pairs [J(kg.m^2) F(N.m.s) p()]: [0.0058 0 2]

Initial conditions

[slip, th(deg), ia, ib, ic(pu), pha, phb, phc(deg), iar, ibr, icr(A), phar, phbr, phcr(deg)]:

[0 0 0 0 0 0 0]

☐ Simulate saturation Plot

[i(Arms) ; v(VLL rms)]: , 302.9841135, 428.7778367 ; 230, 322, 414, 460, 506, 552, 598, 644, 690]

OK Cancel Help Apply