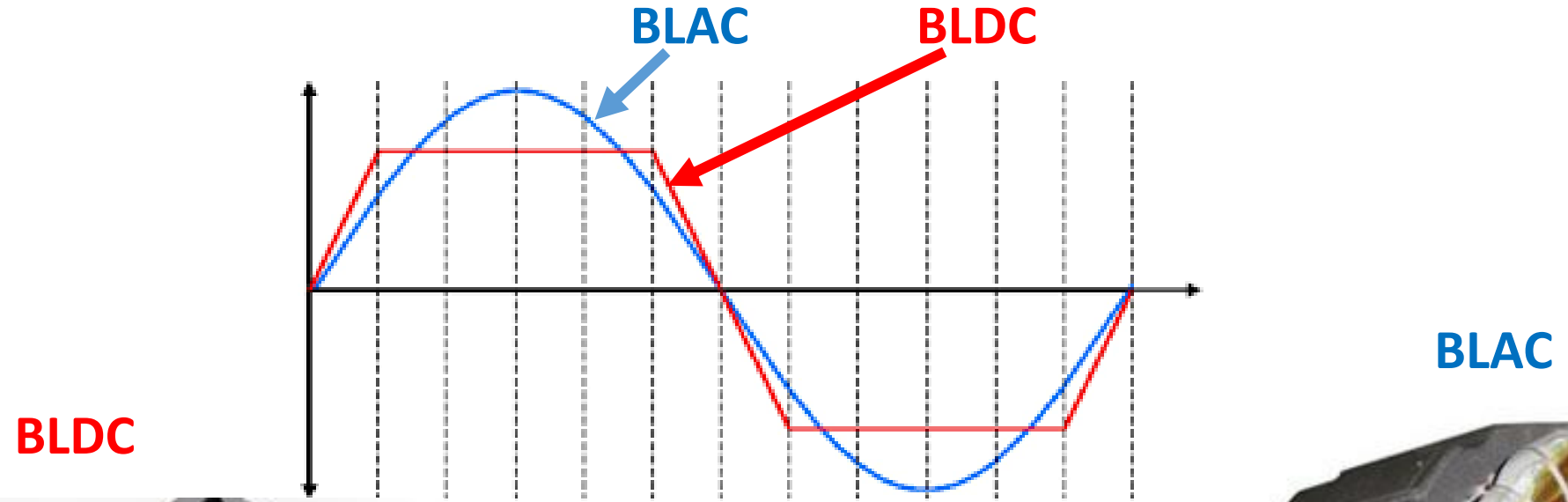




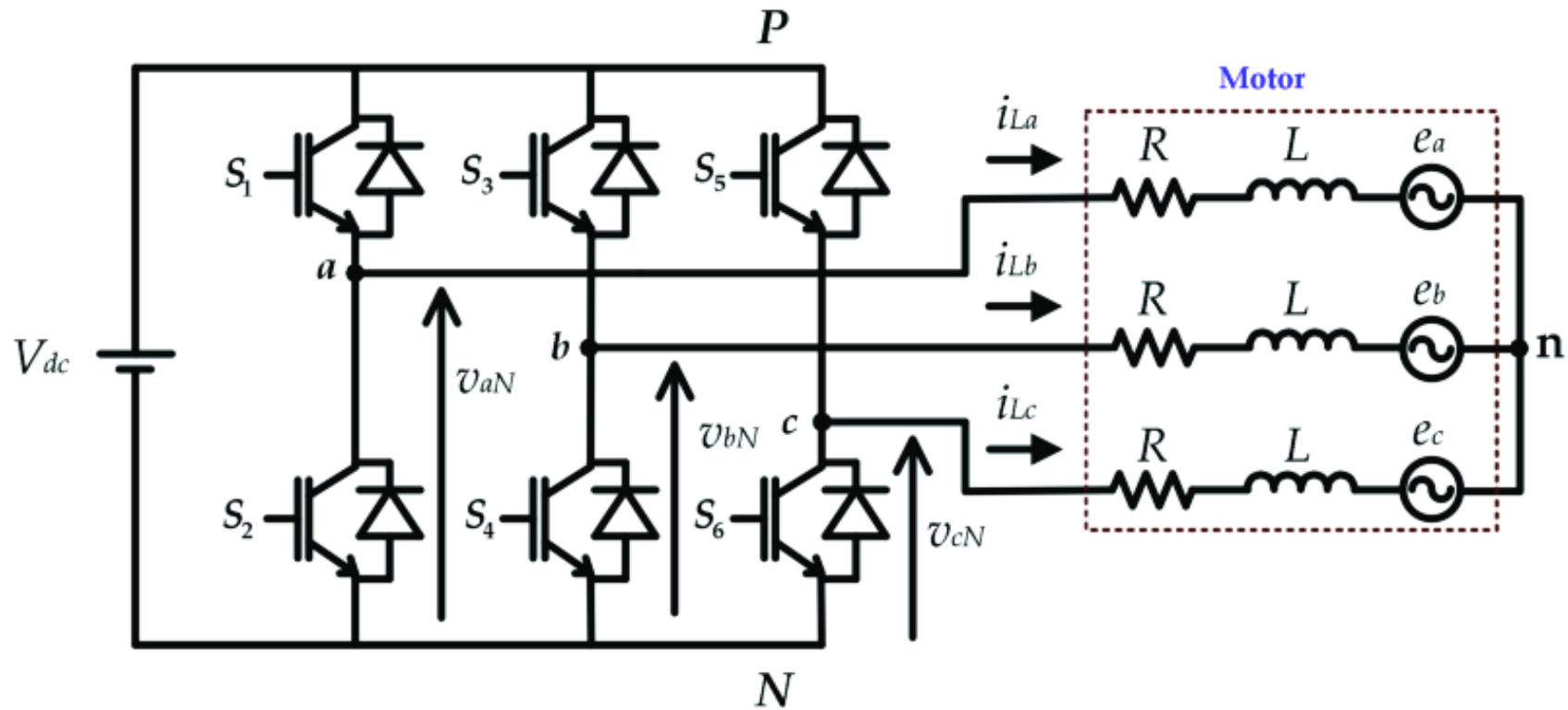
Elektronsko komutirani motorji

Prof. dr. Damijan Miljavec

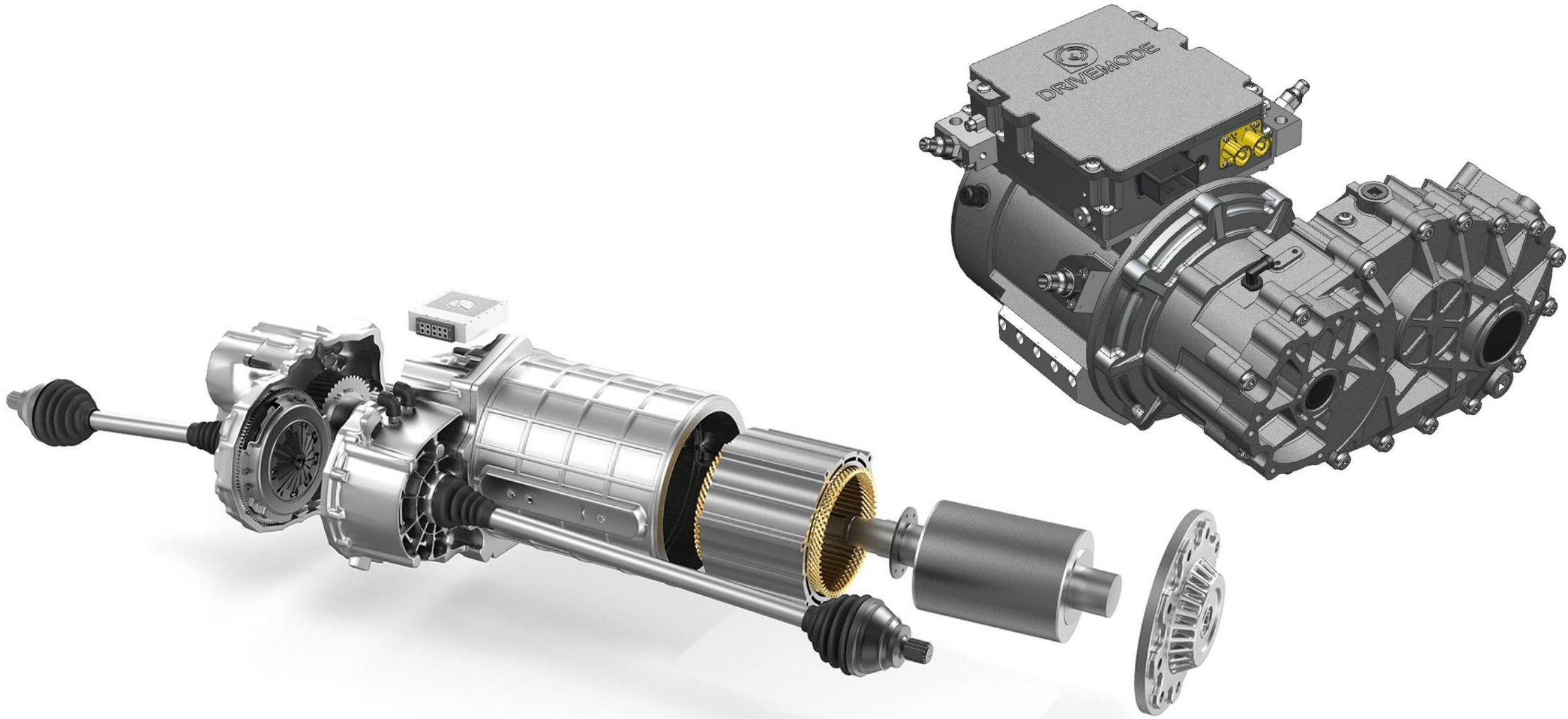
Inducirana napetost



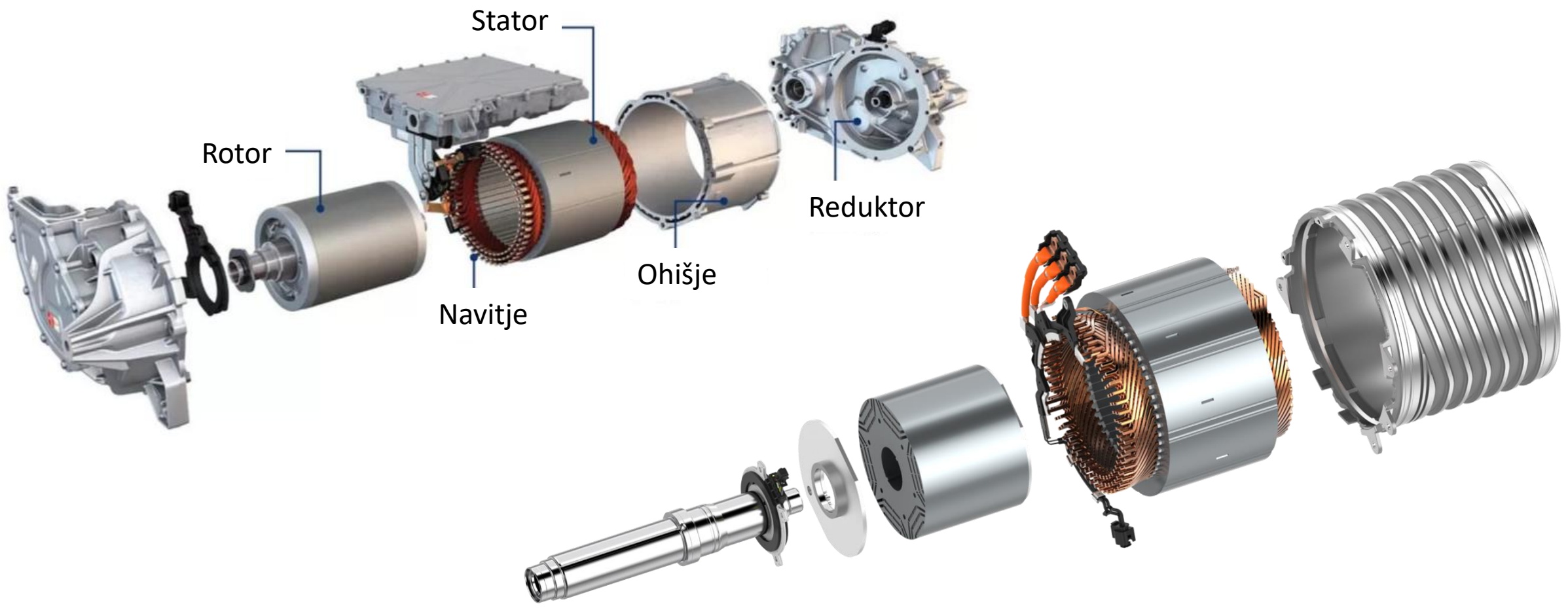
Vodenje BLDC in BLAC



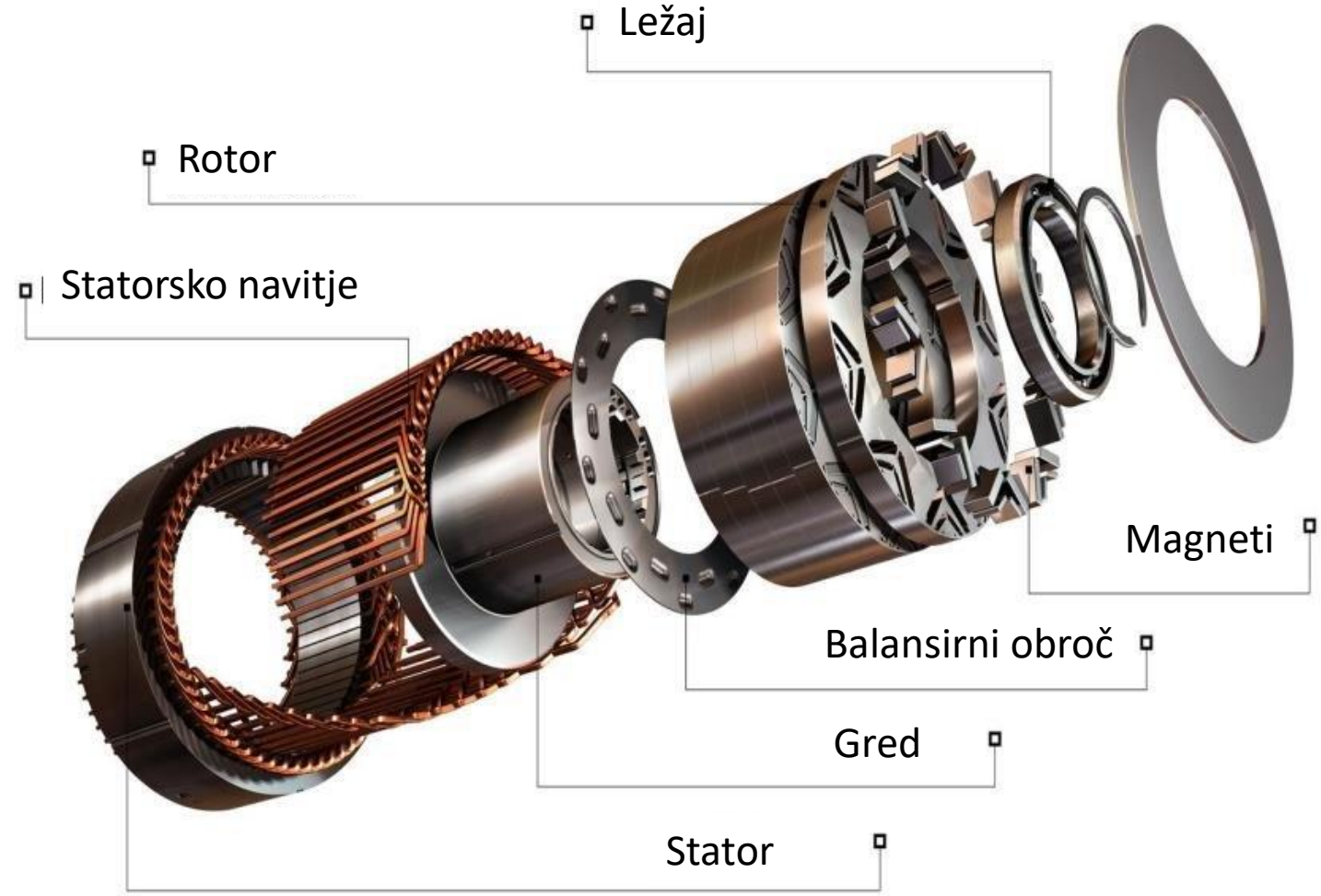
Avtomobilski pogon



Pogled na motor



Stator in rotor

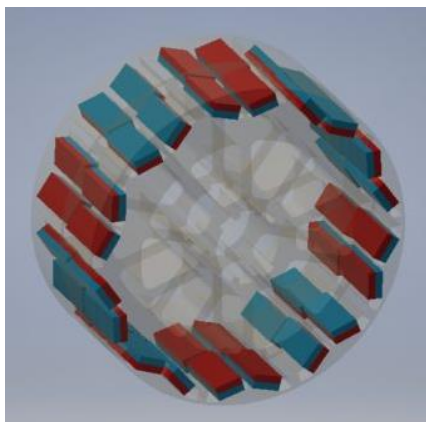
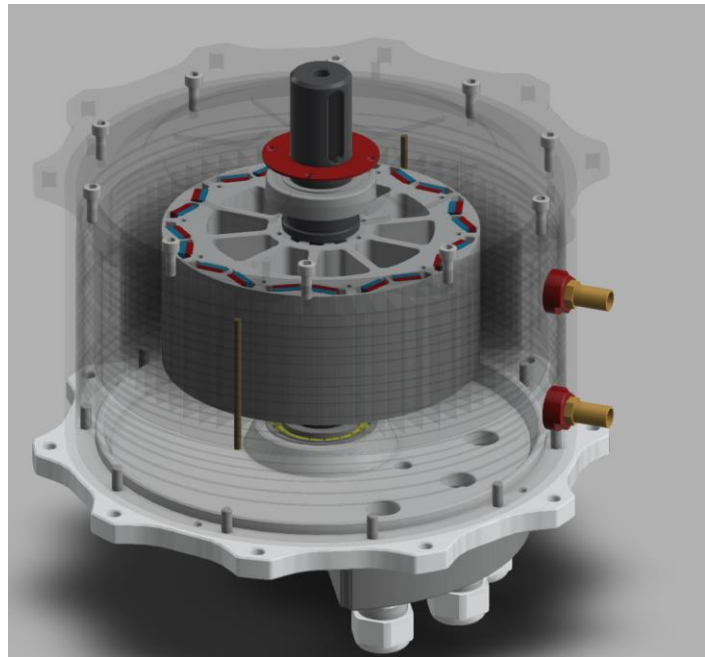




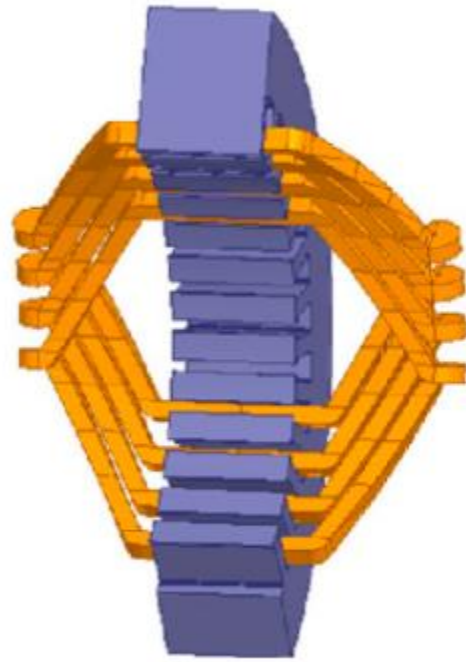
Tirni pogon



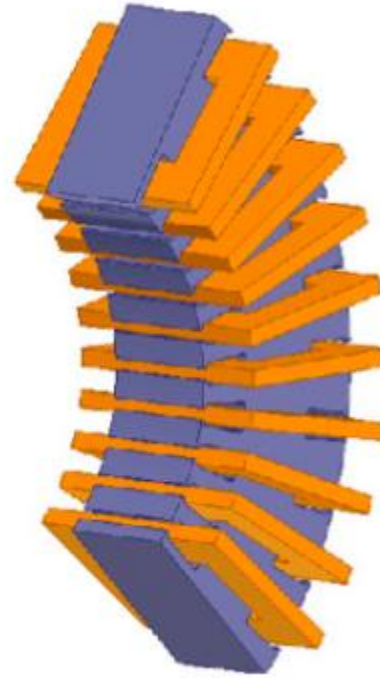
Rotor in stator



Navitja



(a)

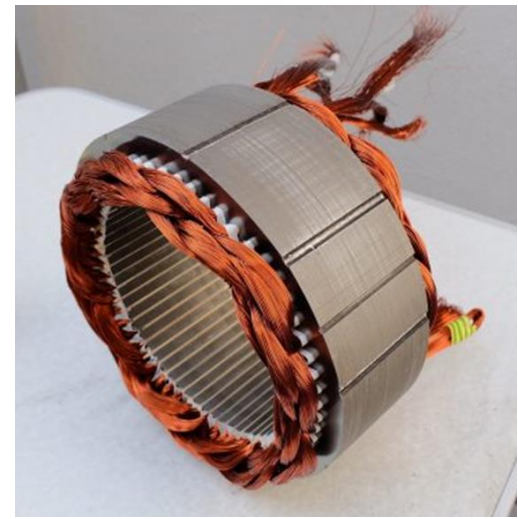
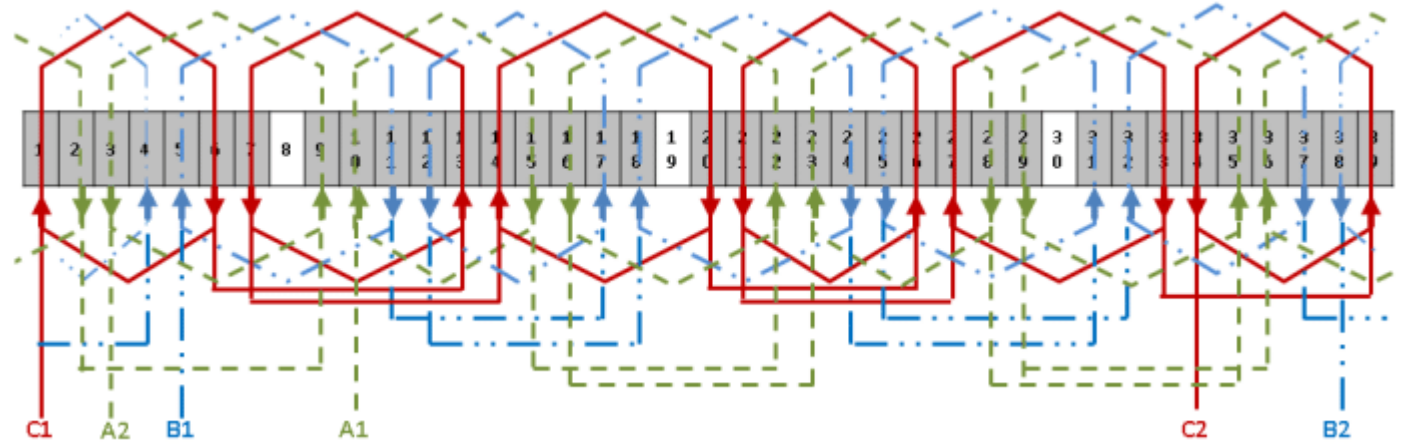
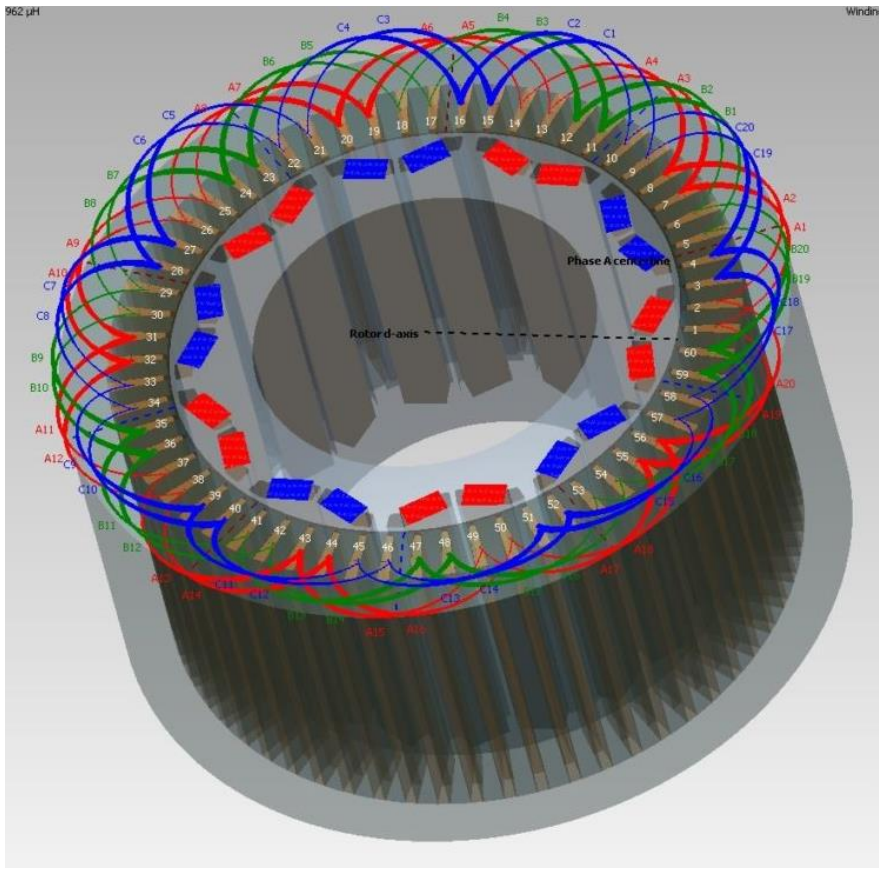


(b)

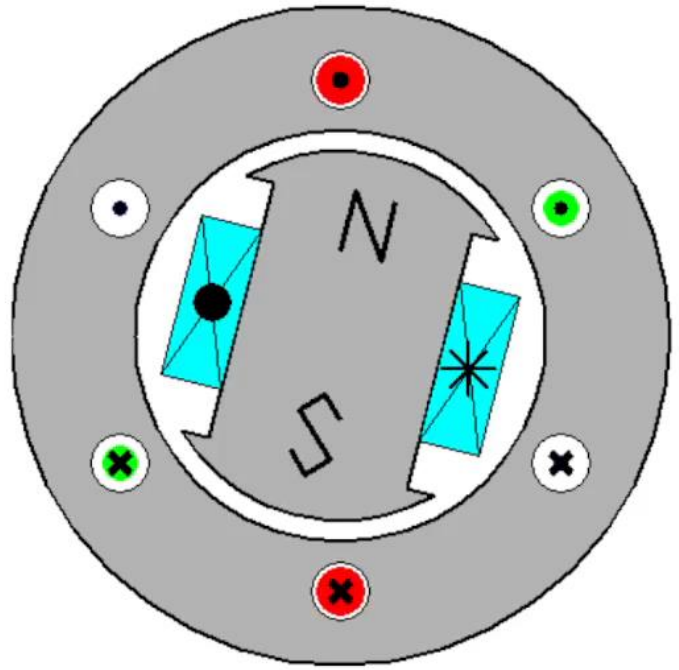


(c)

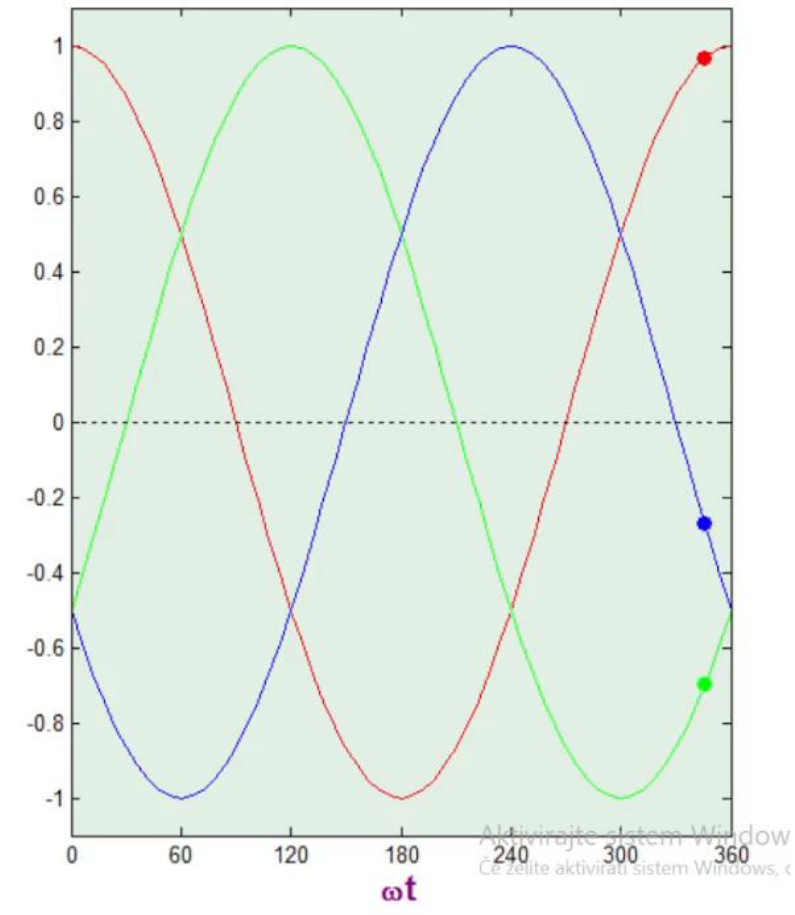
Navitja



Trifazna inducirana napetost

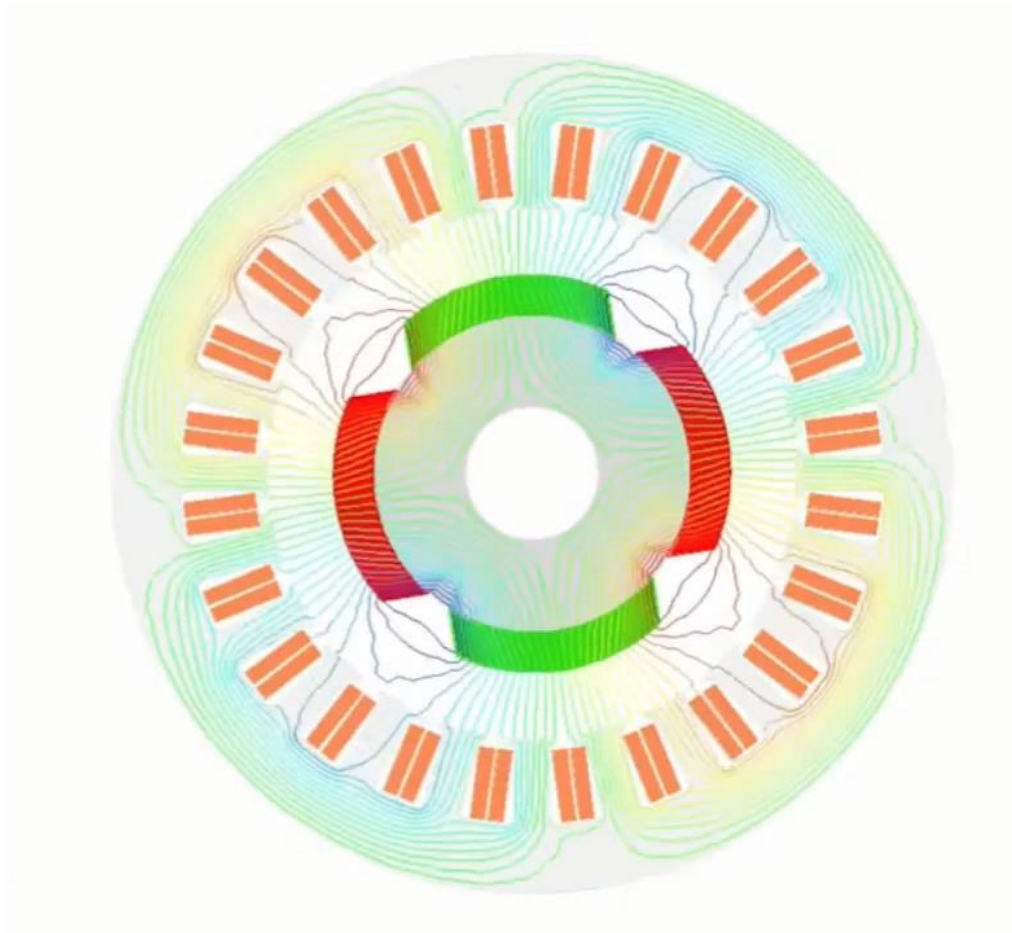


Phase A Phase B Phase C

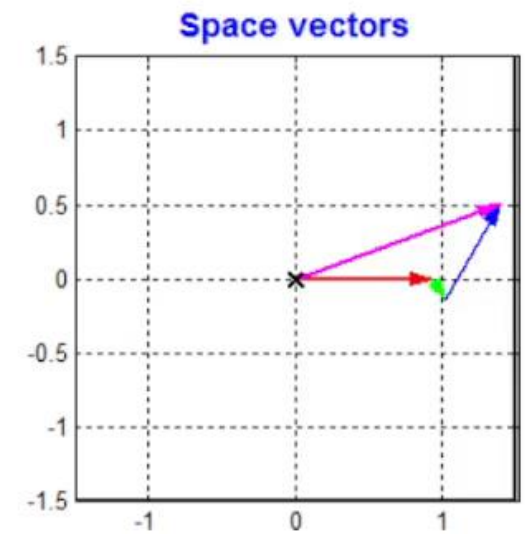
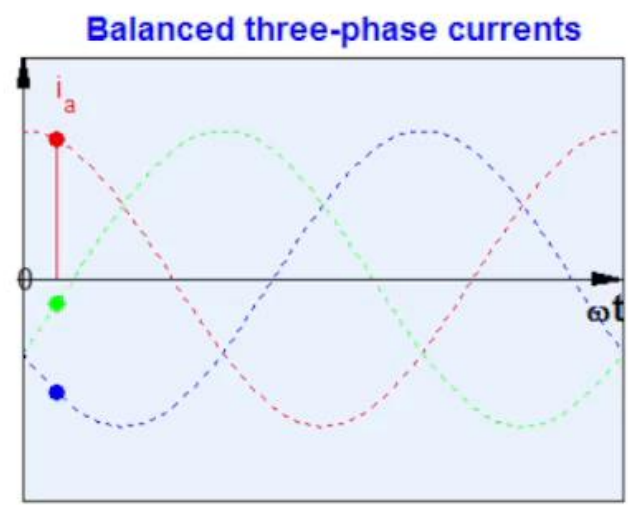
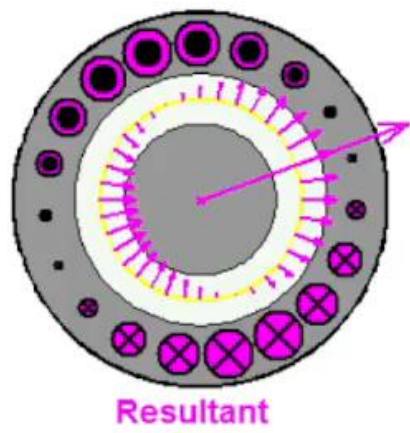
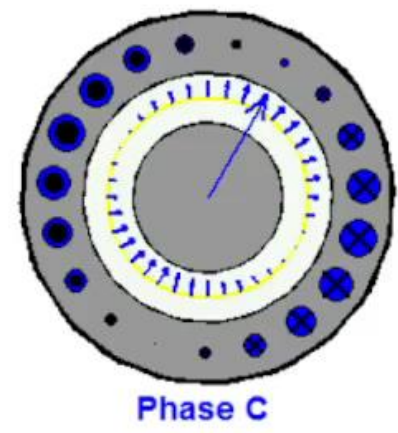
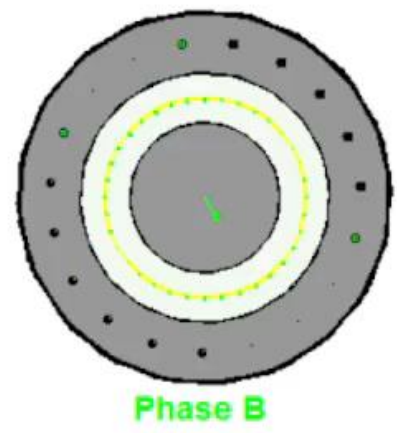
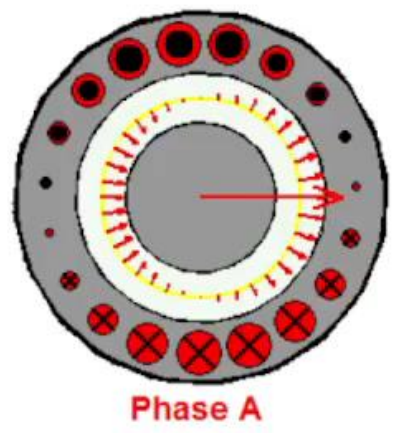


Aktivirajte sistem Windows
Če želite aktivirati sistem Windows, c

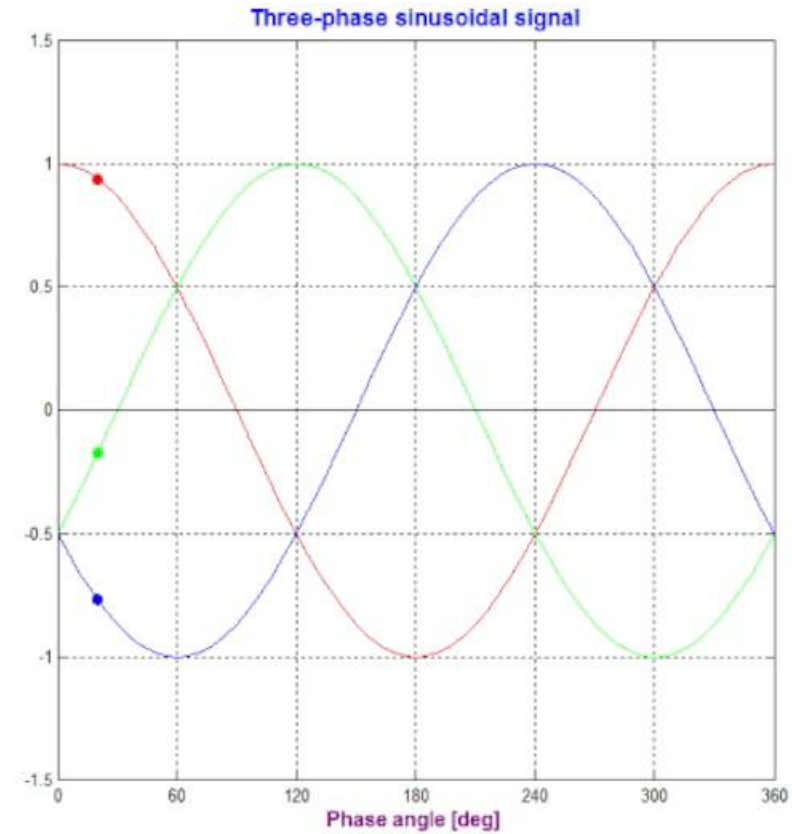
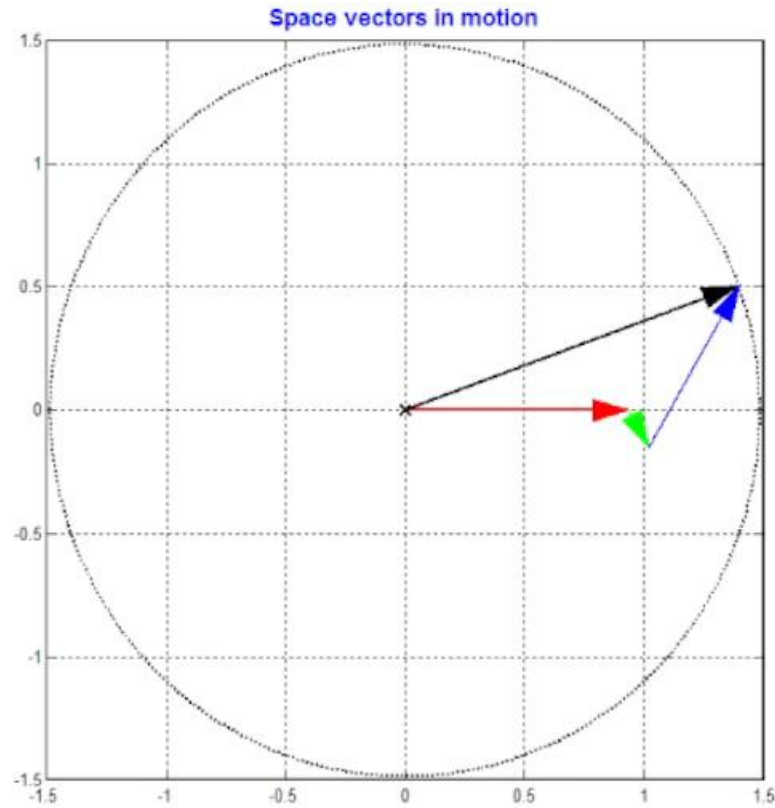
Rotor s trajnimi magneti



Vrtilno magnetno polje



Prostorski kazalci



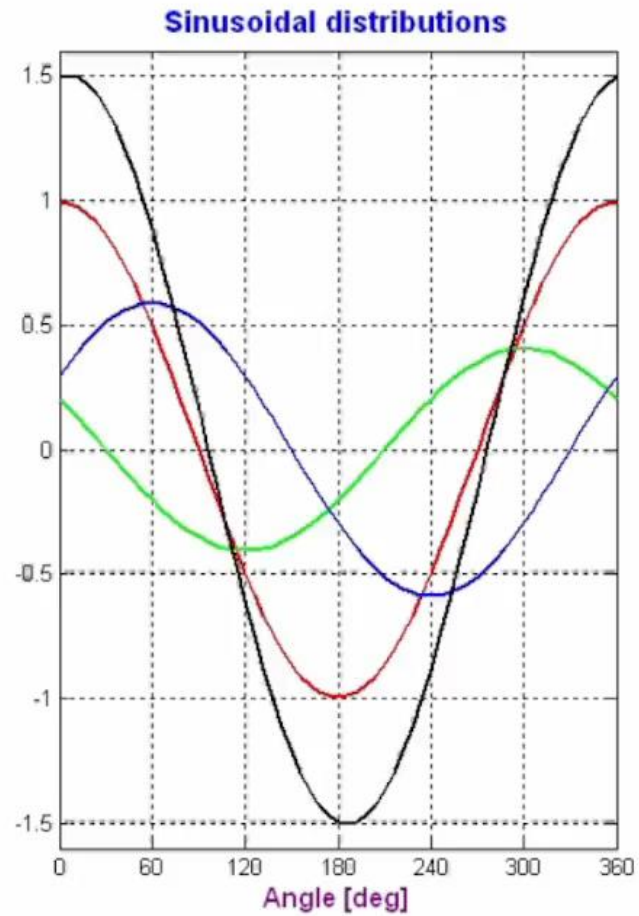
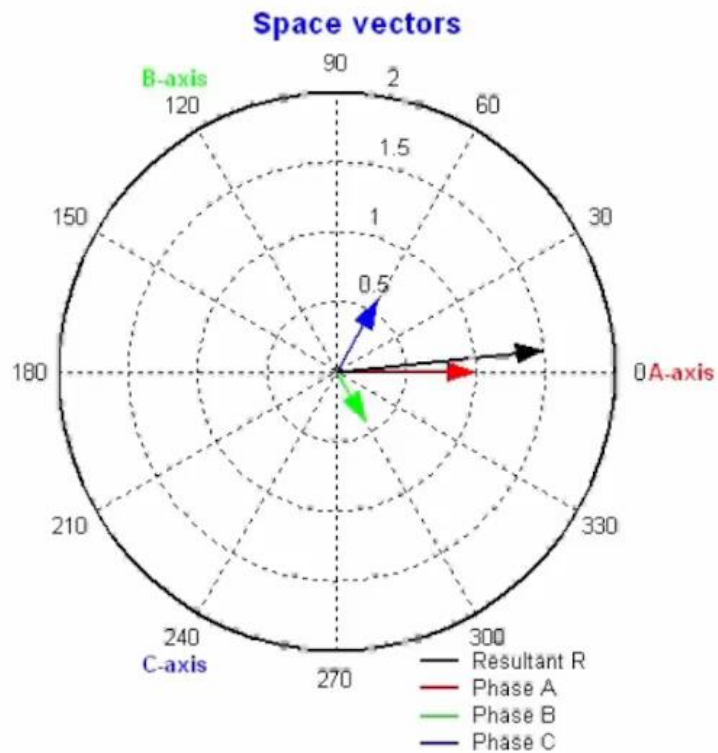
Phase A

Phase B

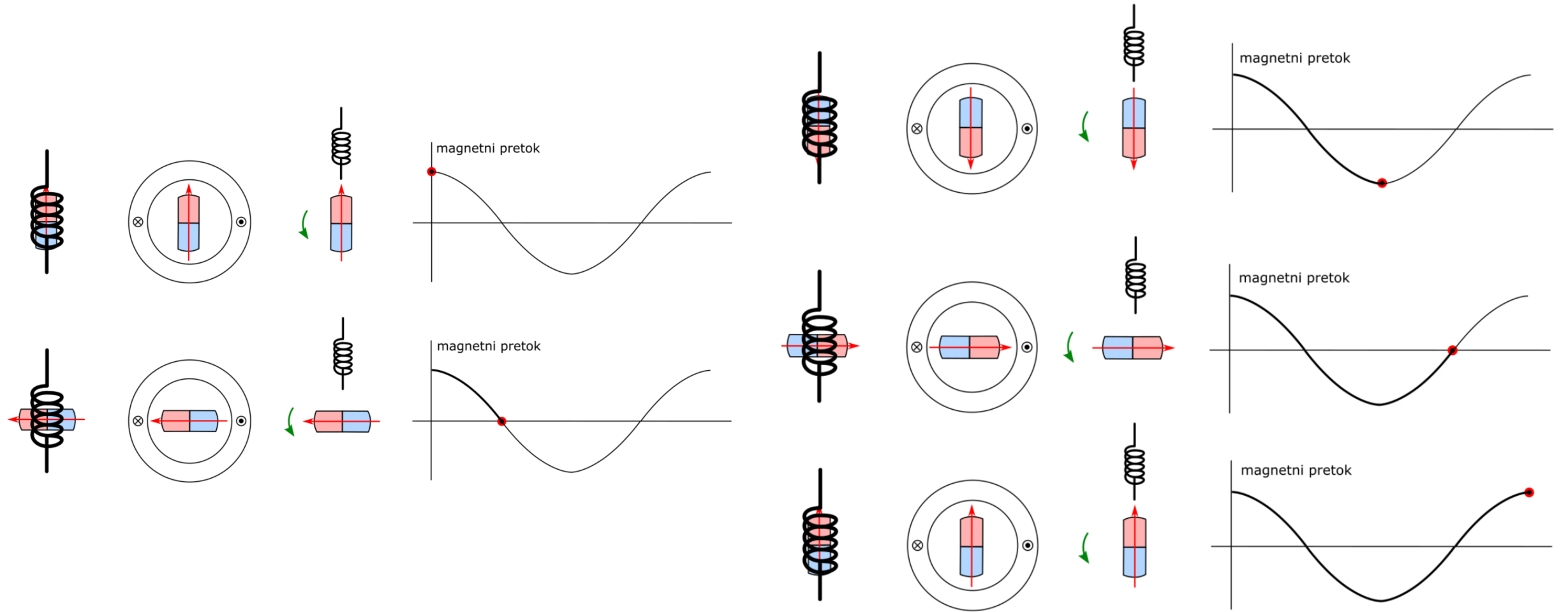
Phase C

Resultant rotating space vector

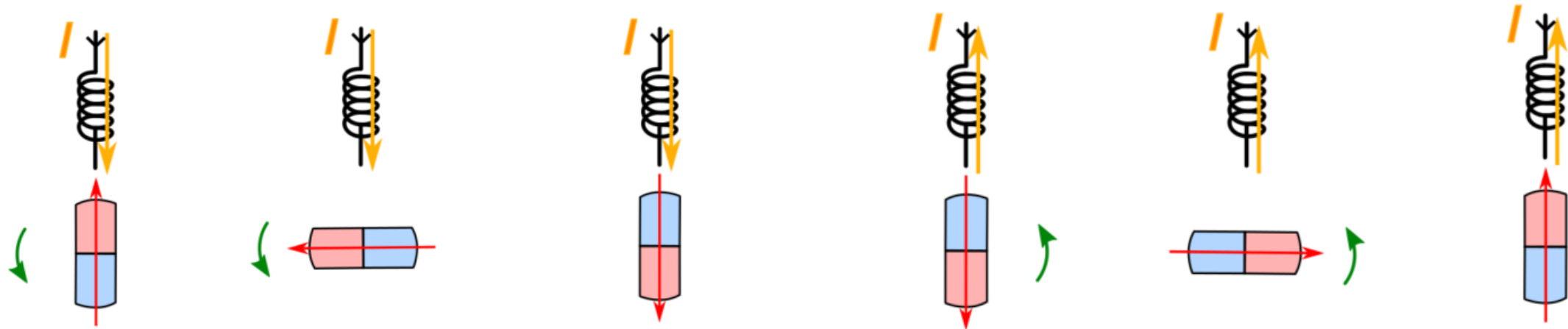
Prostorski kazalci in magnetna polja



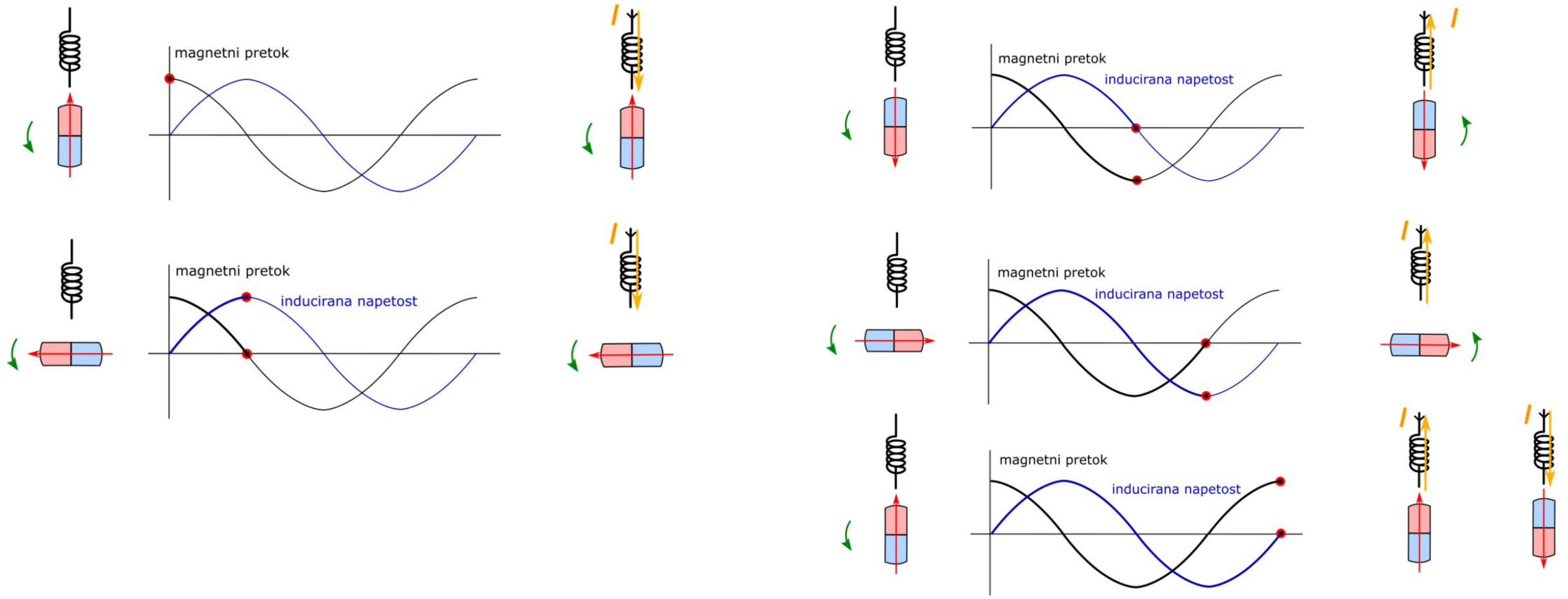
Vrtenje in magnetni pretok



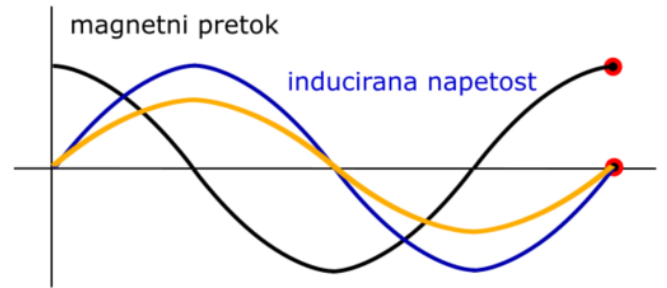
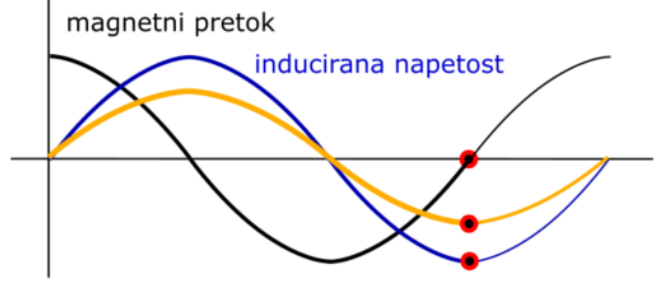
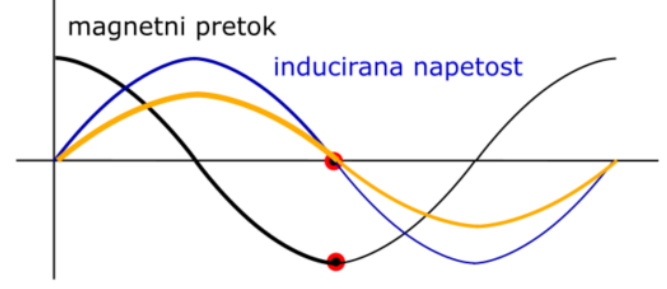
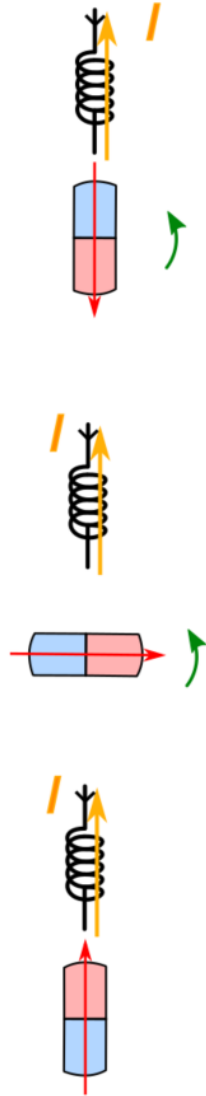
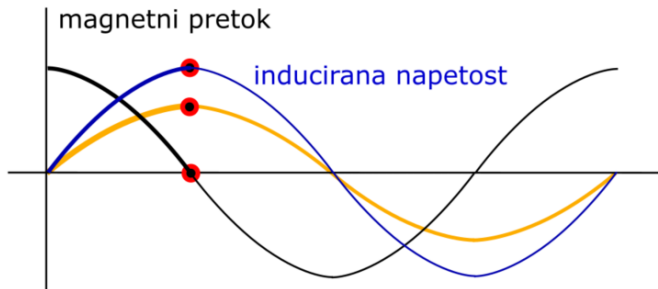
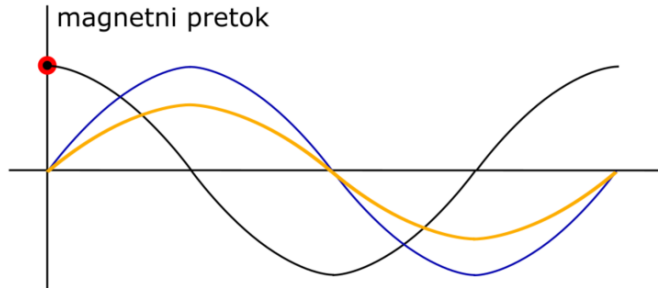
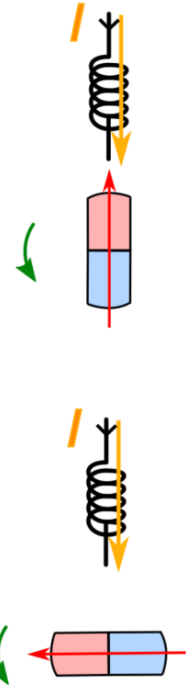
Magnetno poje električnega toka in delovanje sil



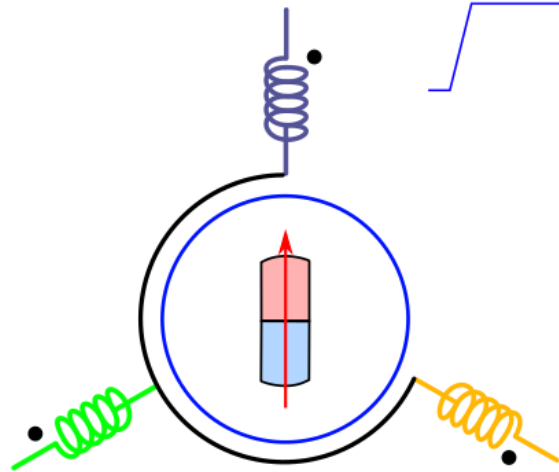
Vrtenje, magnetni pretok in inducirana napetost



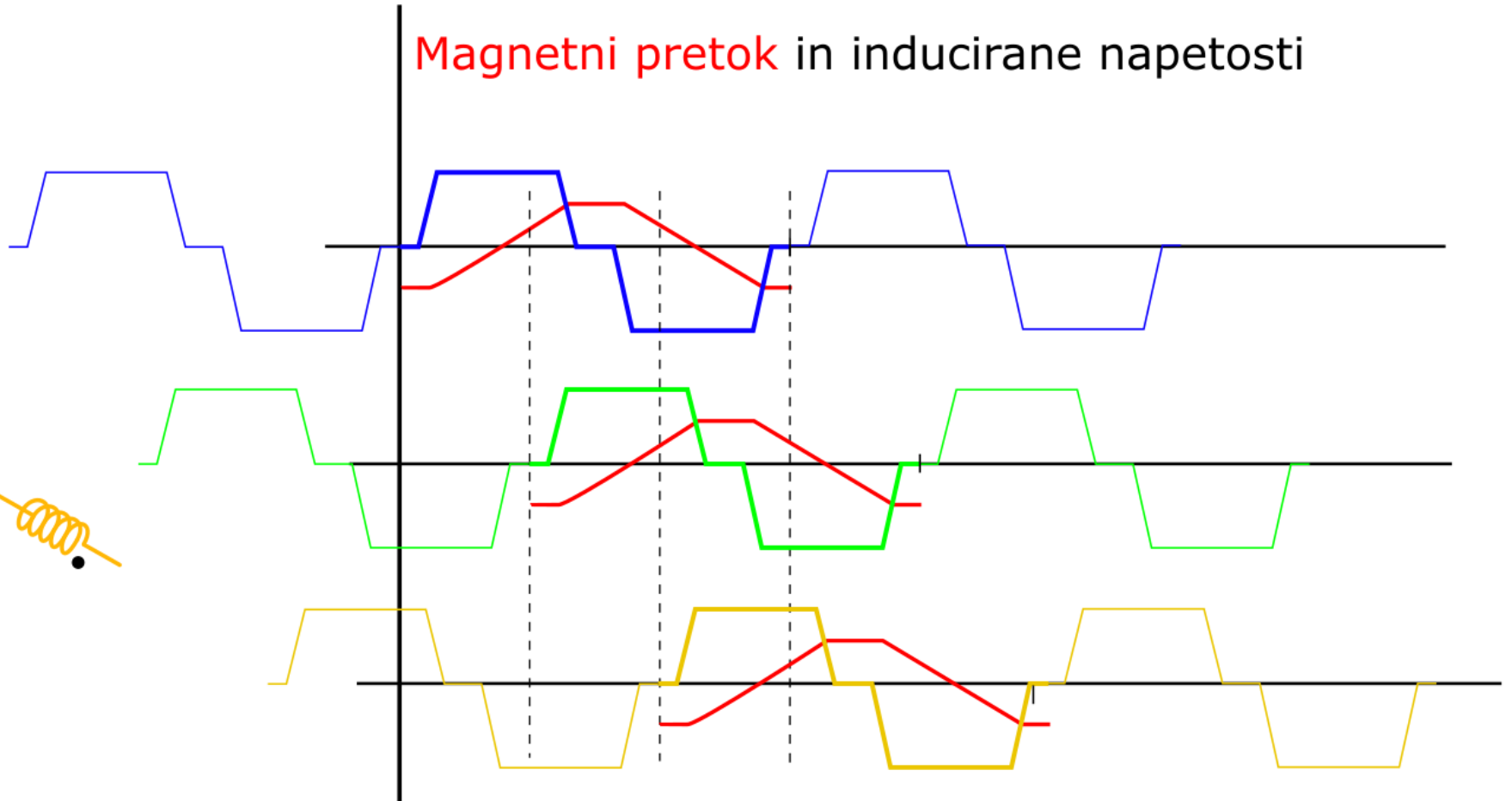
Inducirana napetost, električni tok in magnetna sila



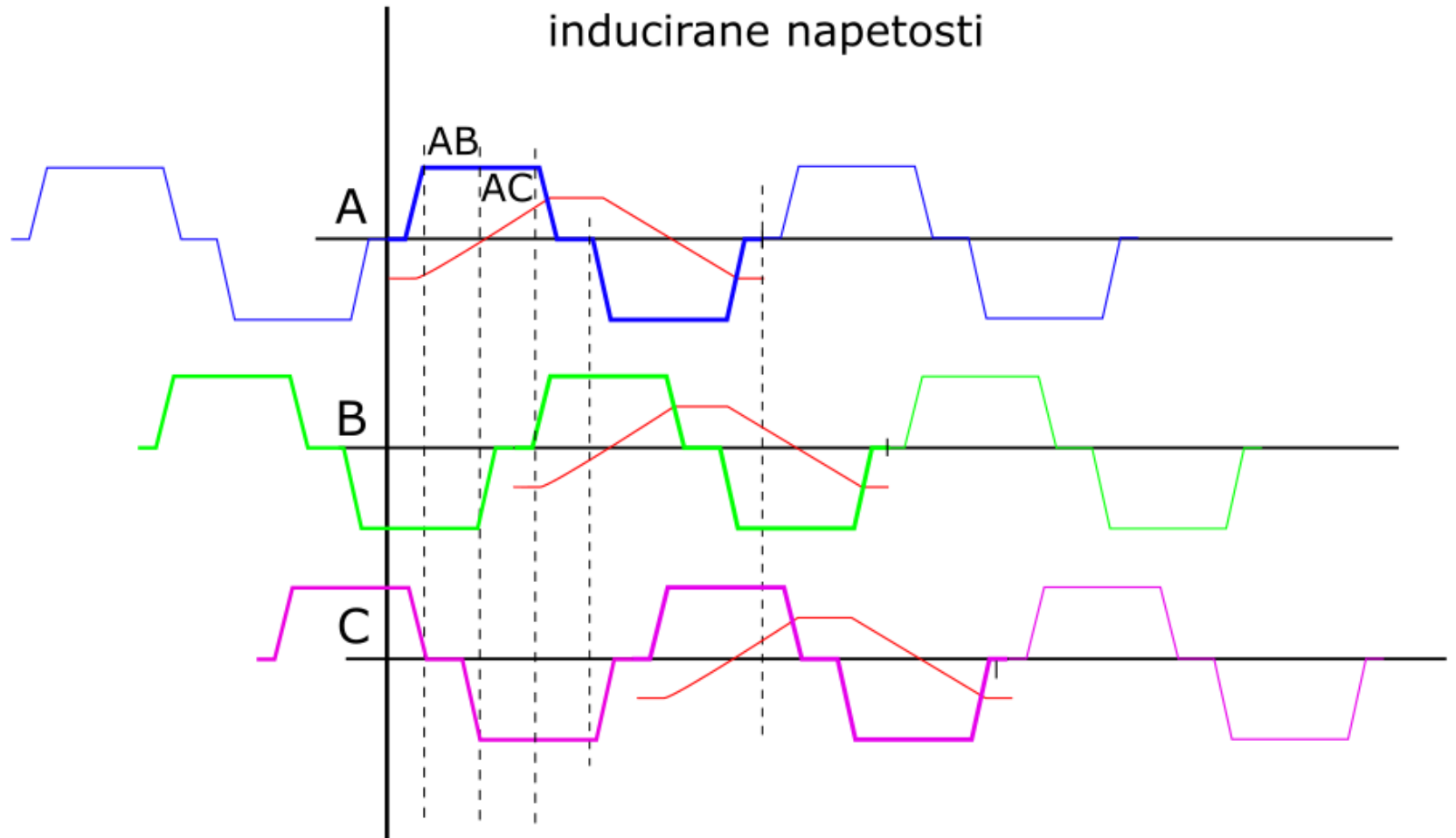
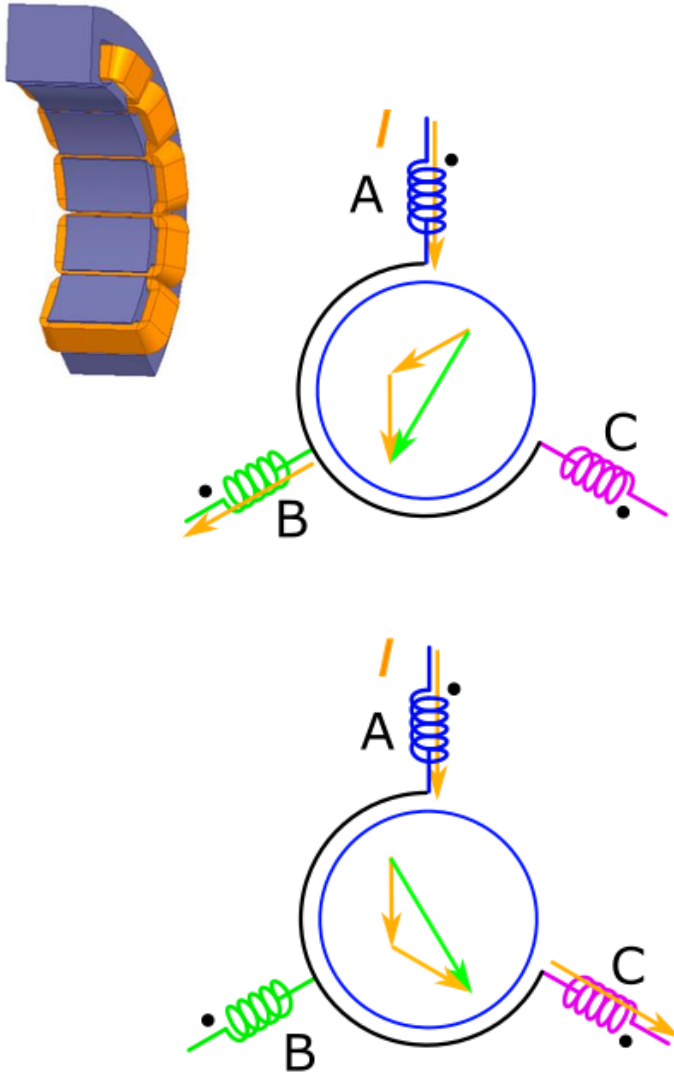
Trifazno statorsko navitje



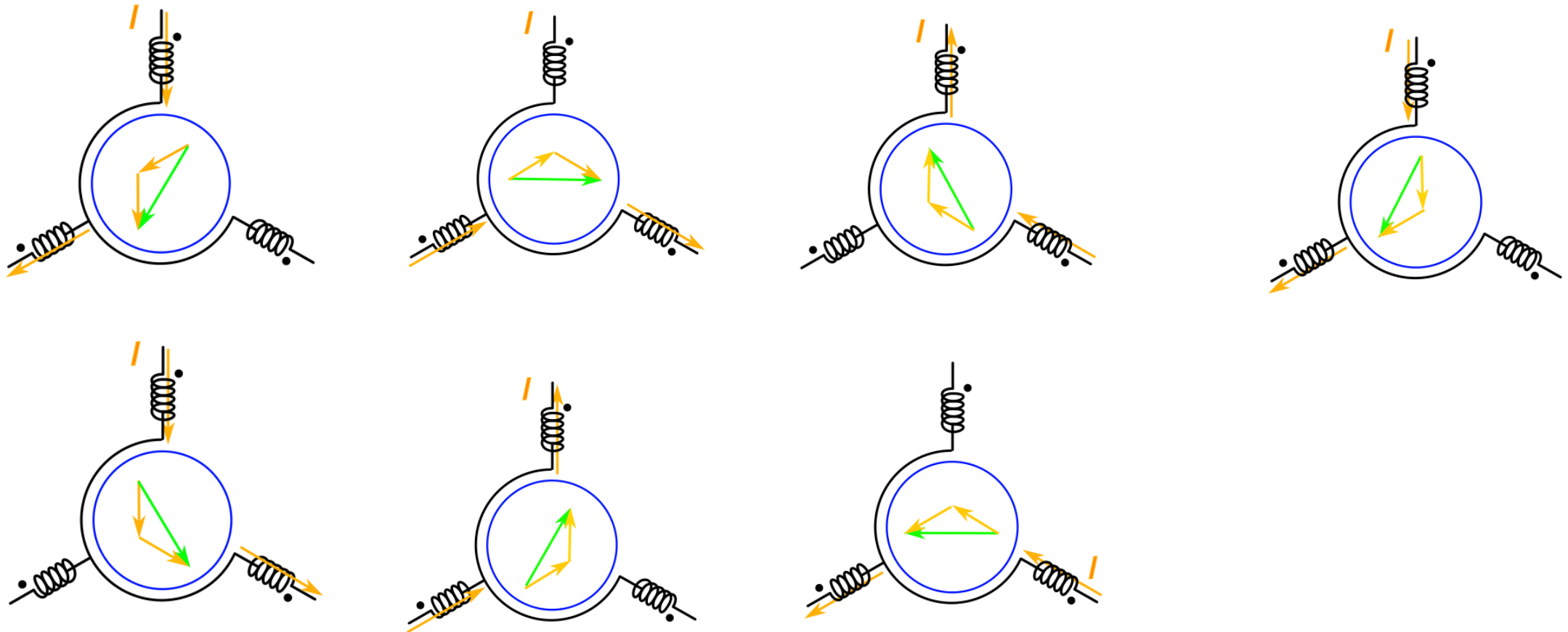
Magnetni pretok in inducirane napetosti



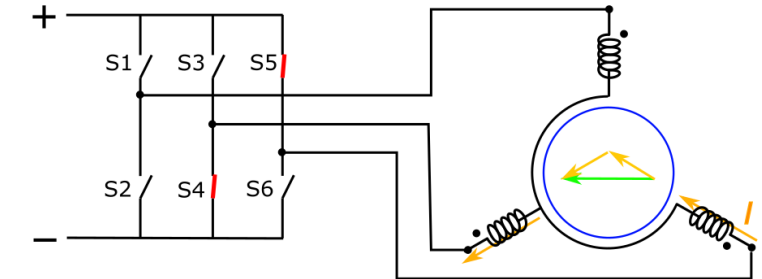
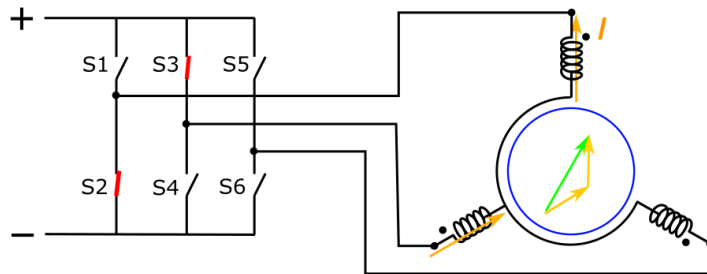
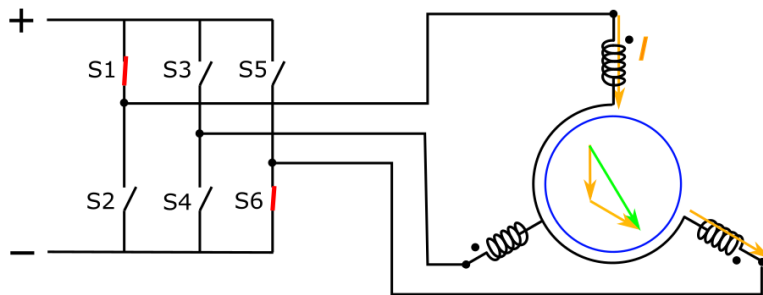
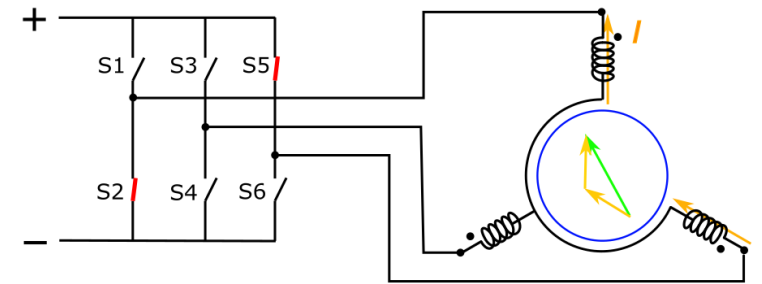
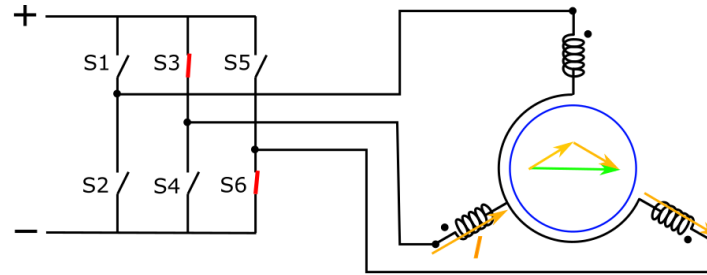
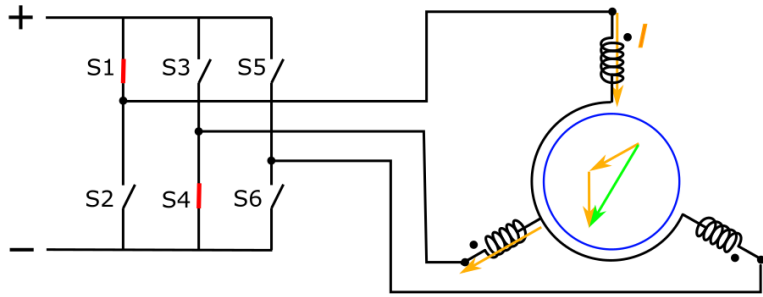
Trifazno statorsko navitje



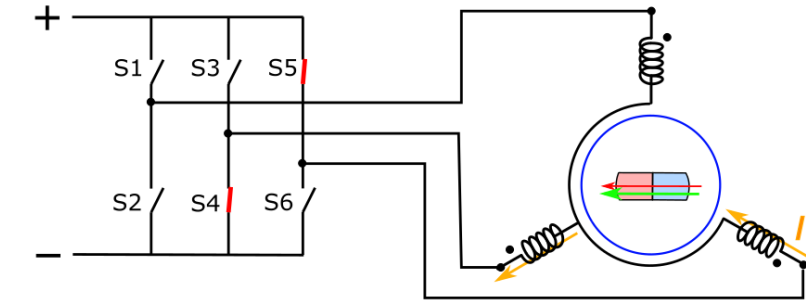
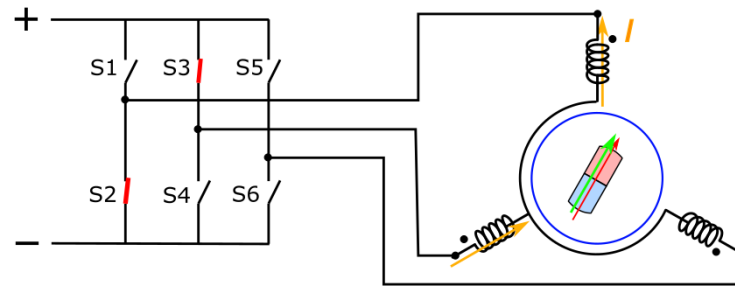
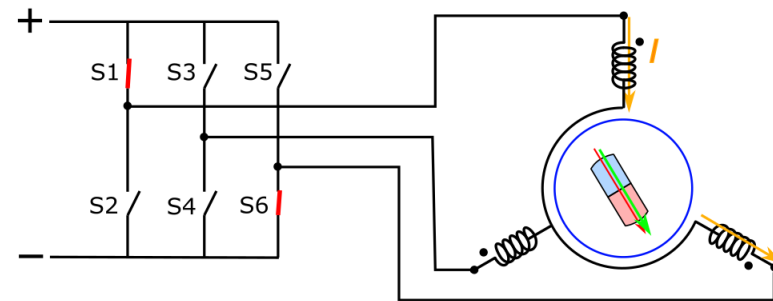
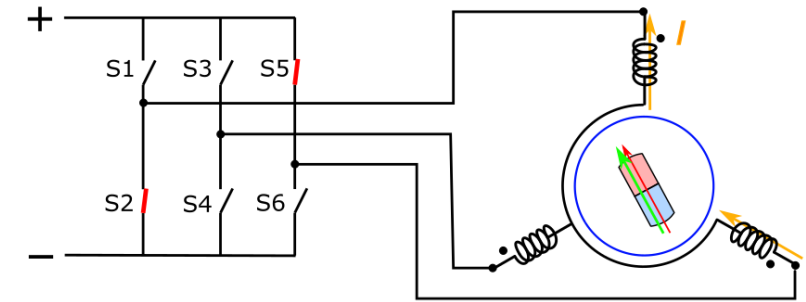
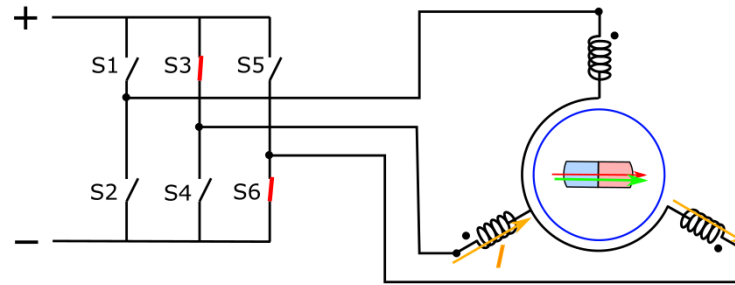
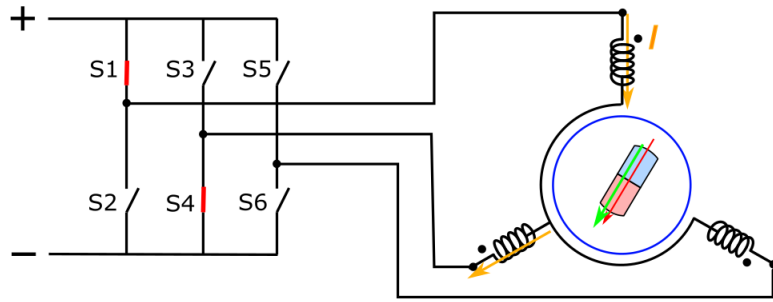
Trifazno statorsko navitje, tok in rezultirajoče magnetno polje v rotorski izvrtini



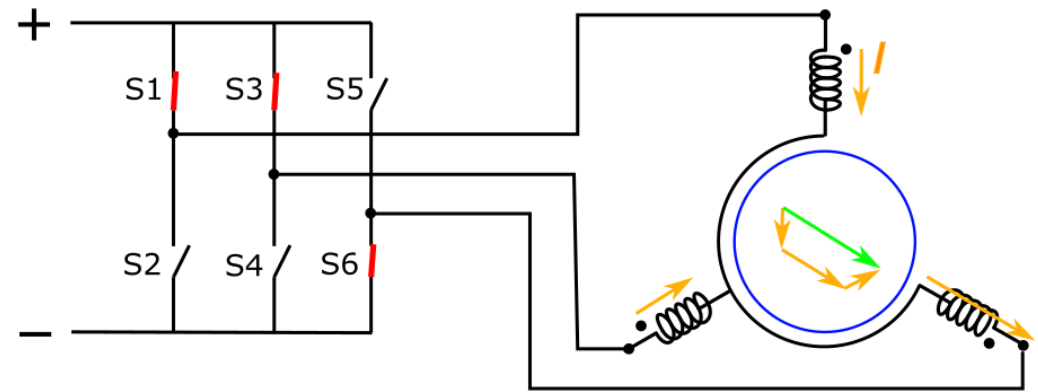
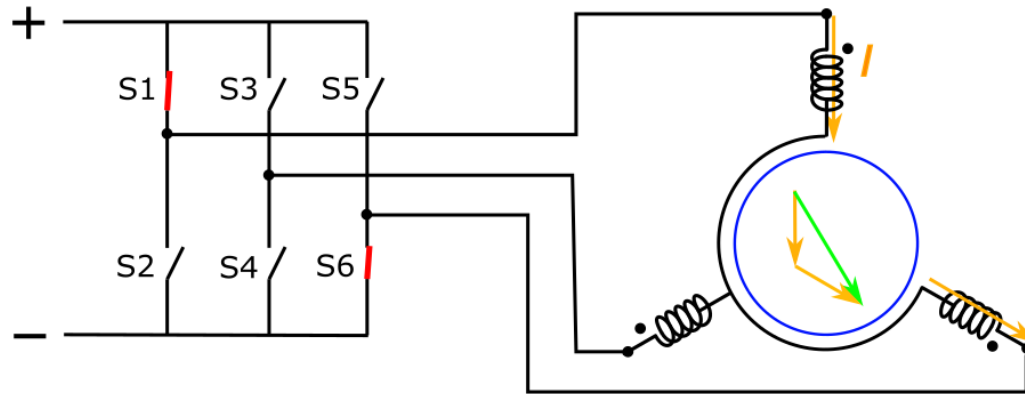
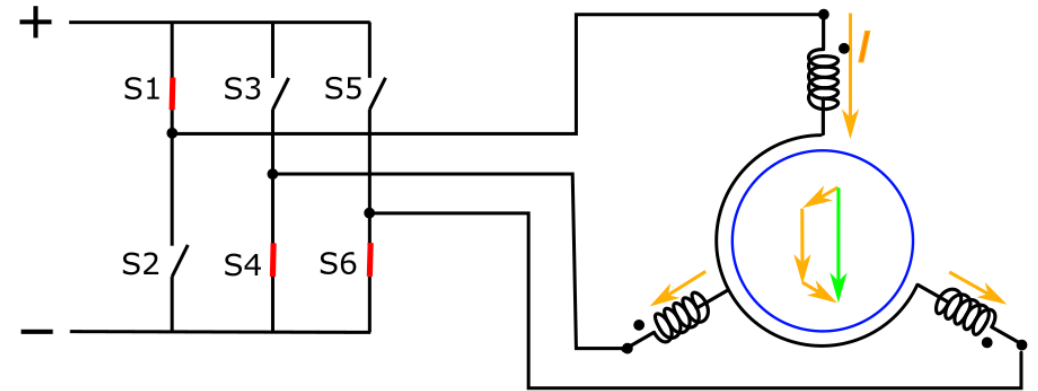
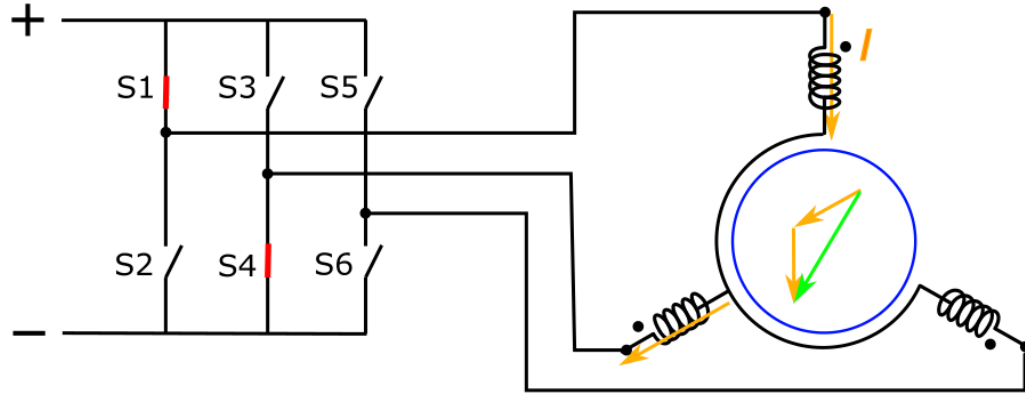
Preklapljanje stikal in vrtilno magnetno polje



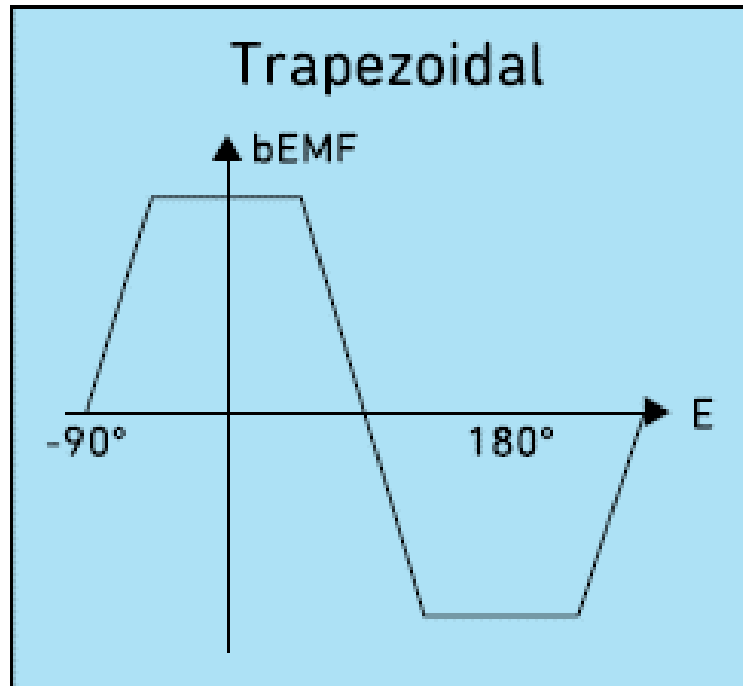
Preklapljanje stikal, vrtilno magnetno polje in delovanje sil na rotor s trajnim magnetom



Različne kombinacije stikal in rezultirajoče vrtilno magnetno polje v rotorski izvrtini

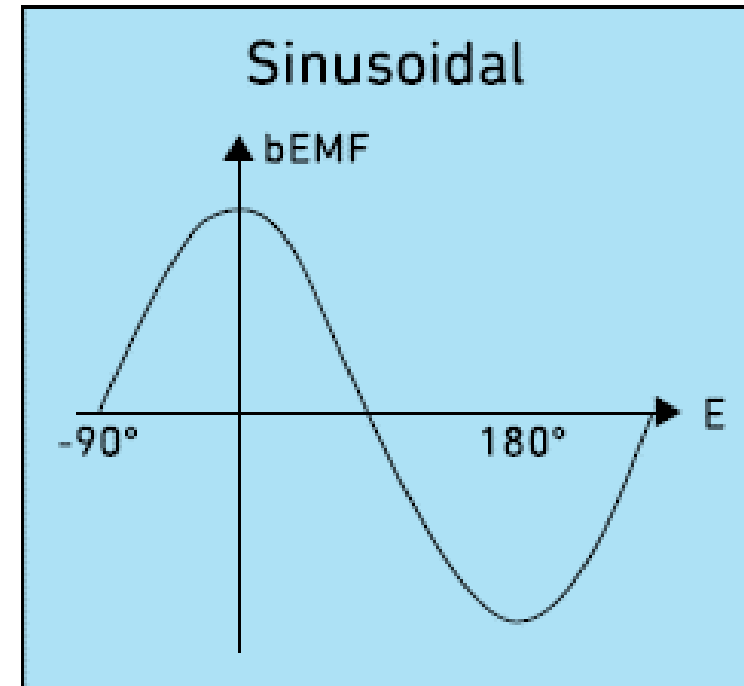


BLDC



Controlled by Trapezoidal Control

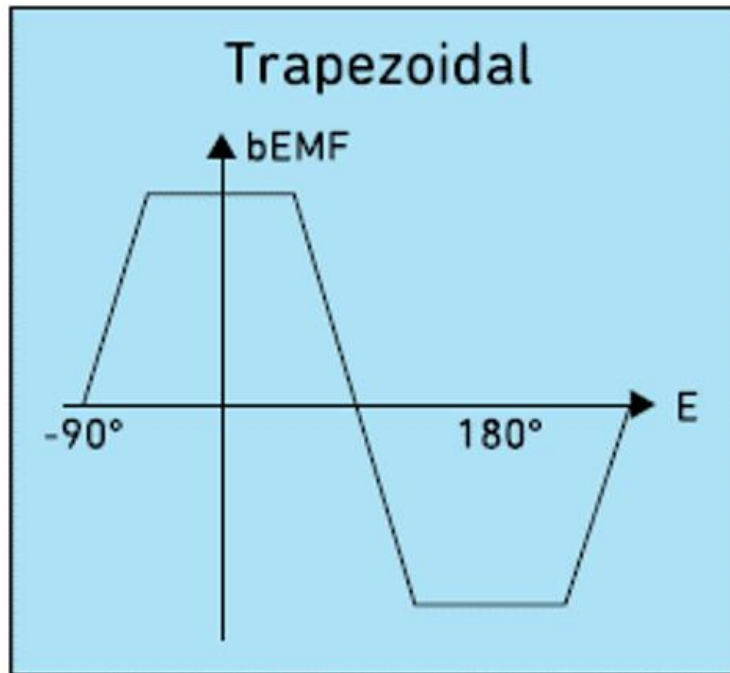
PMSM



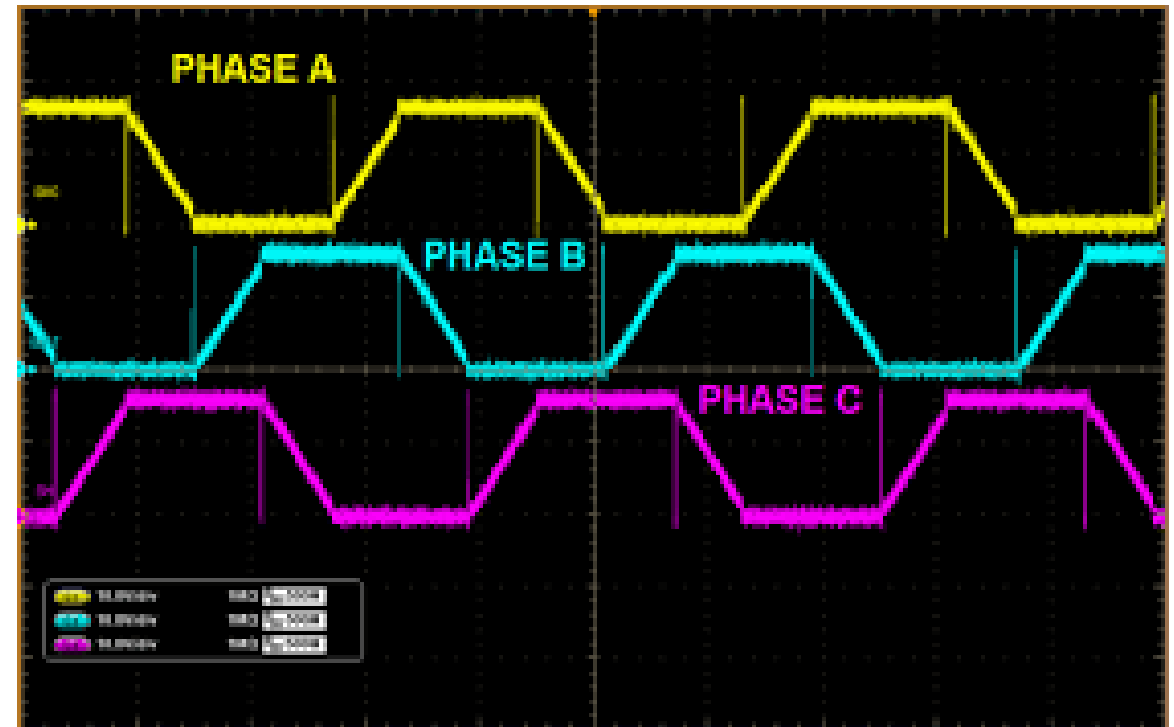
Controlled by Field-Oriented Control

Trifazni toki trapezne oblike

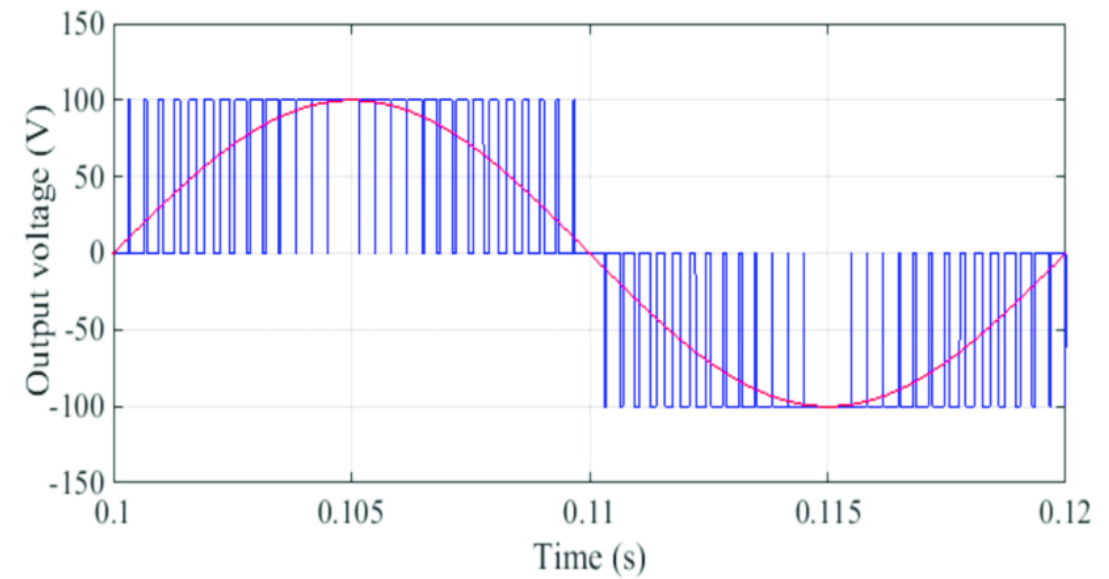
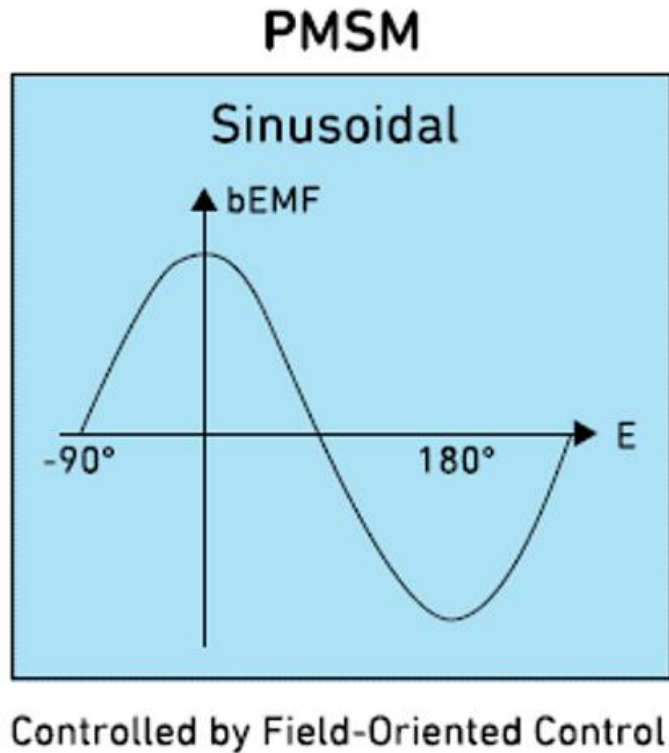
BLDC



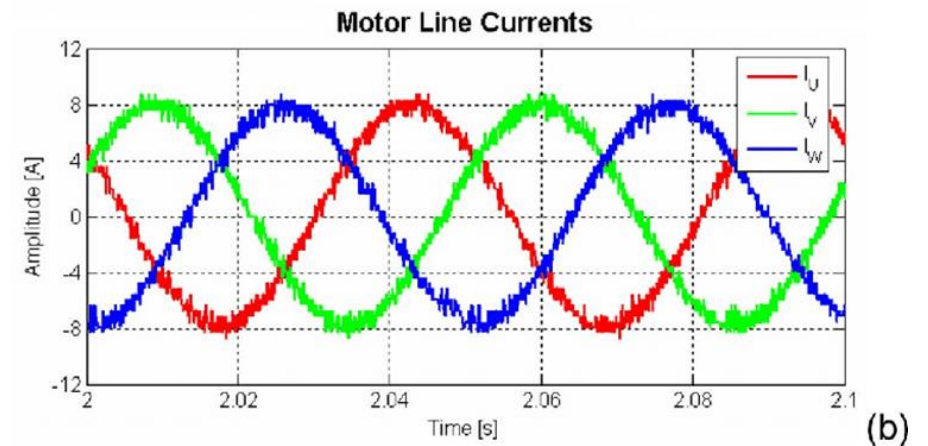
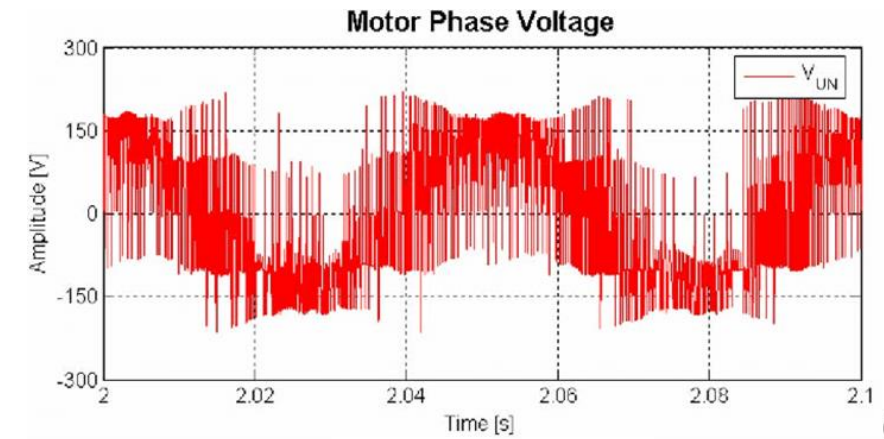
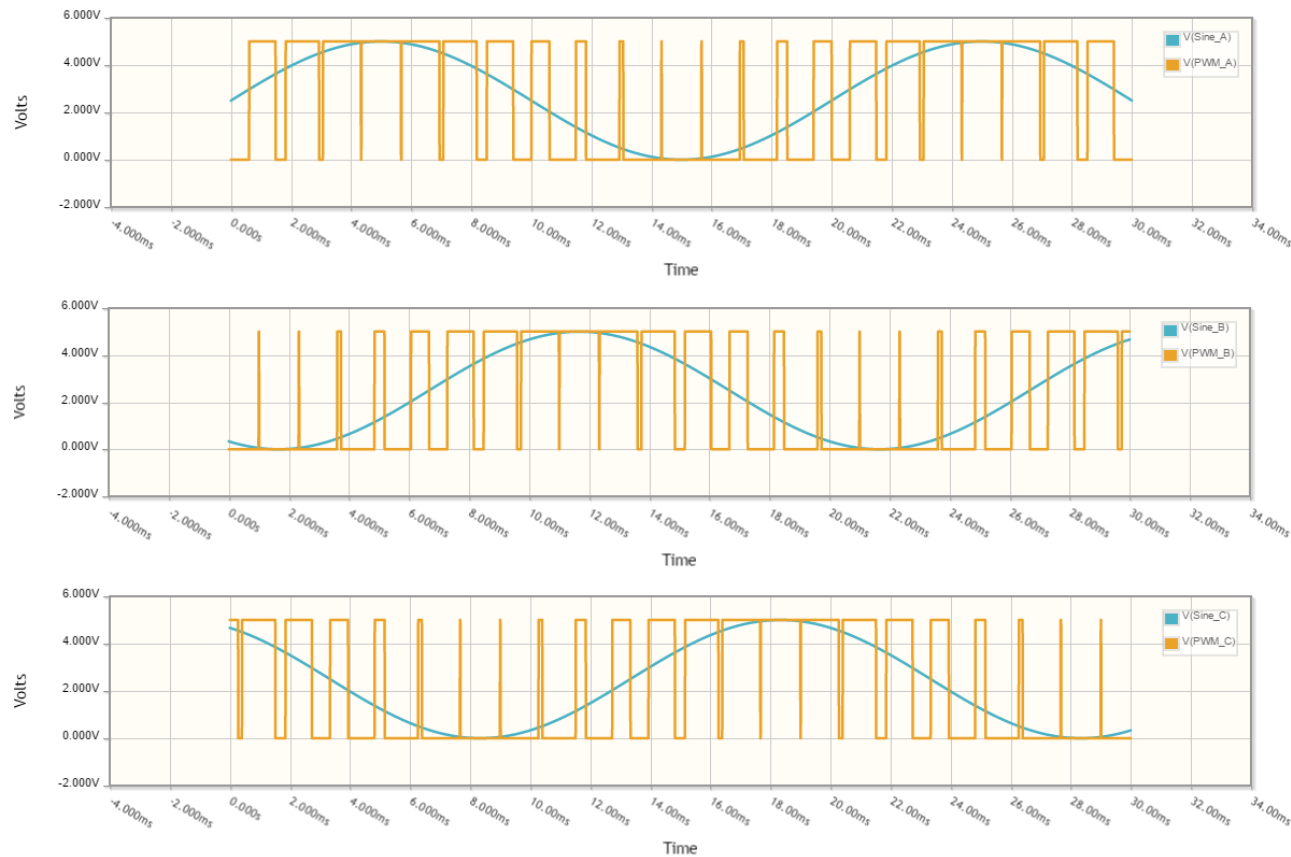
Controlled by Trapezoidal Control



Sinusna oblika toka



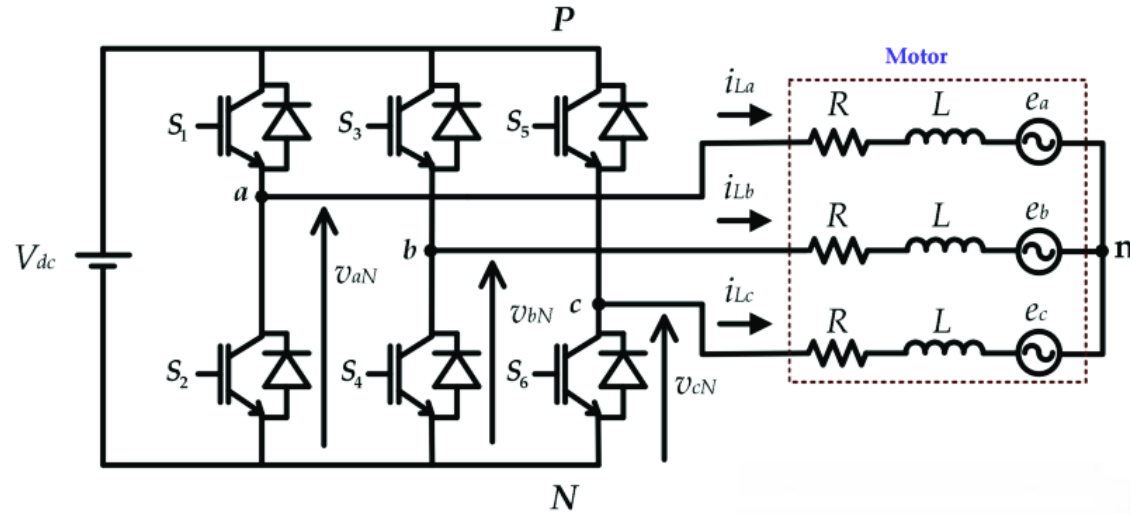
Trifazni sinusni toki



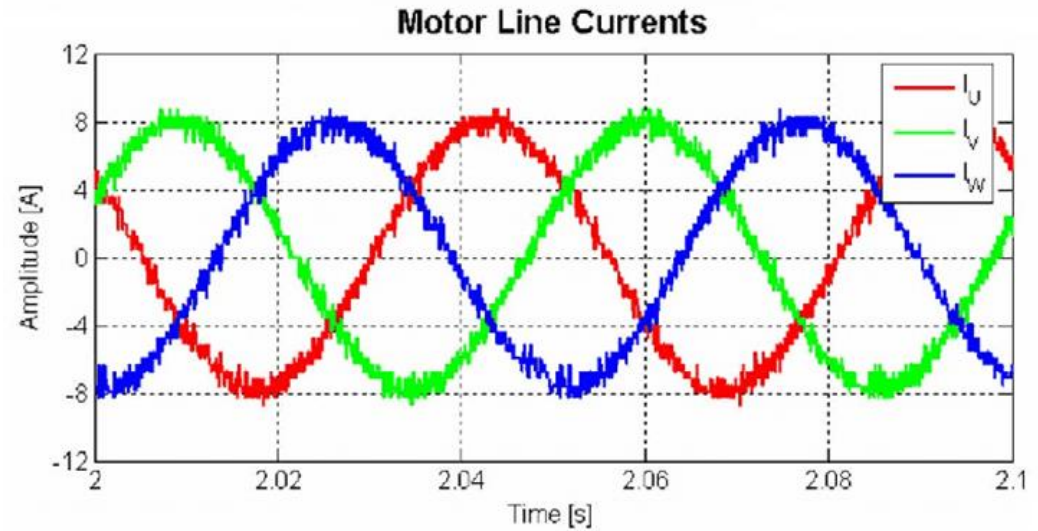
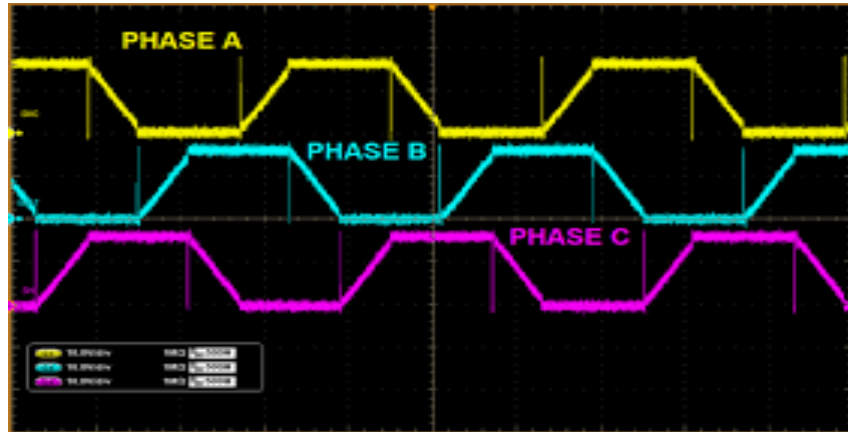
Elektronsko komutirani motorji



BLDC



BLAC



(b)



... in še mnogo ...