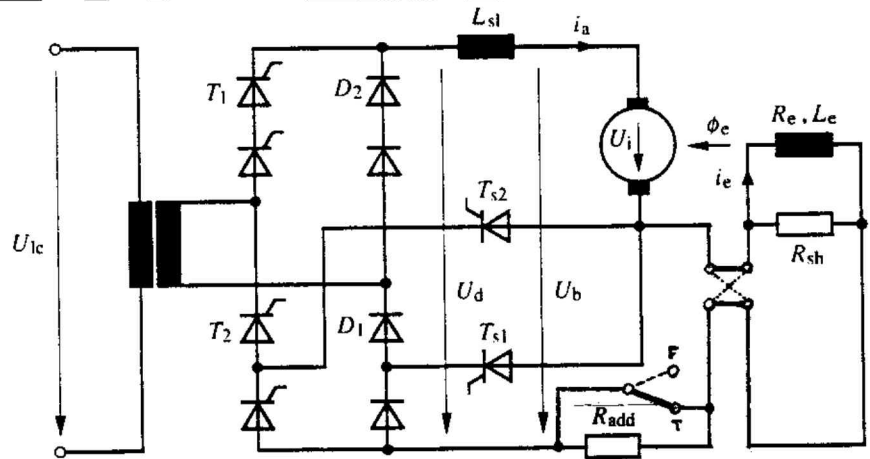


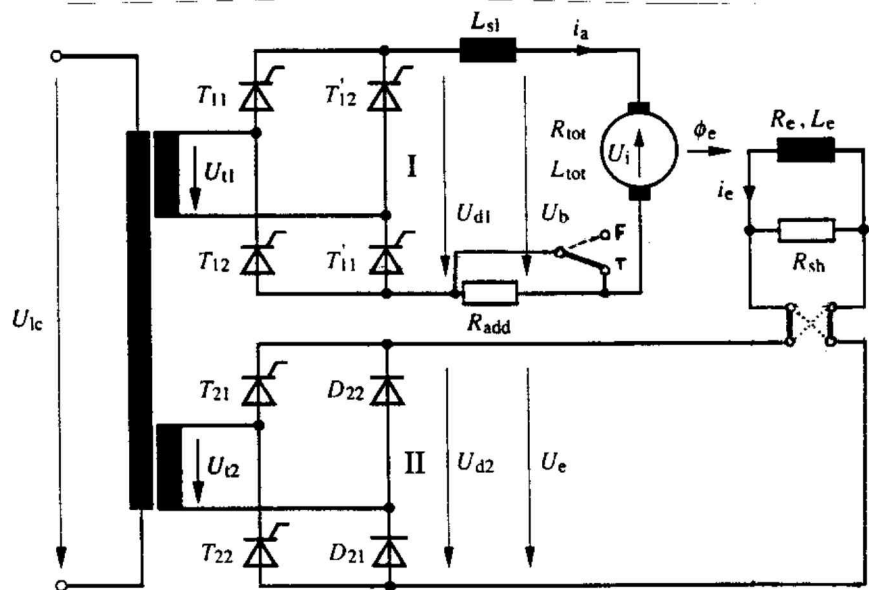
1

Moteur à excitation série



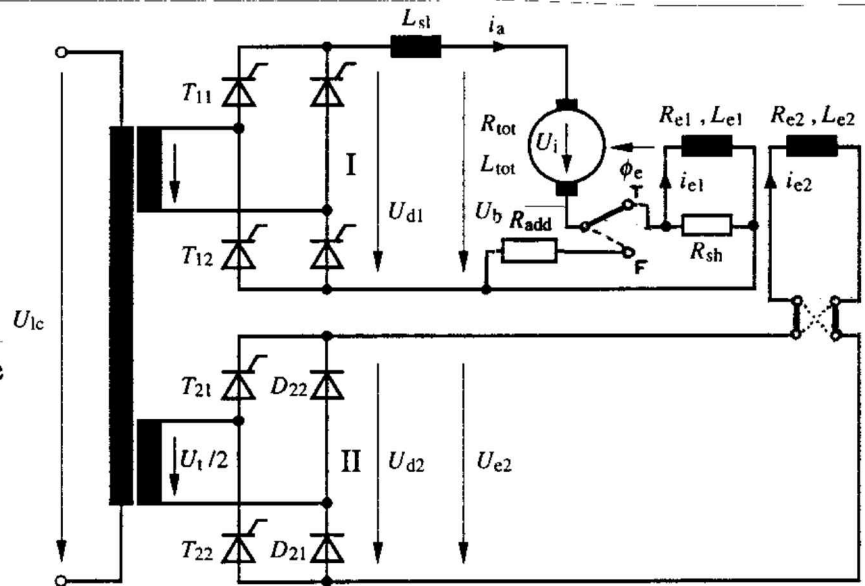
2

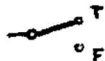
Moteur à excitation séparée




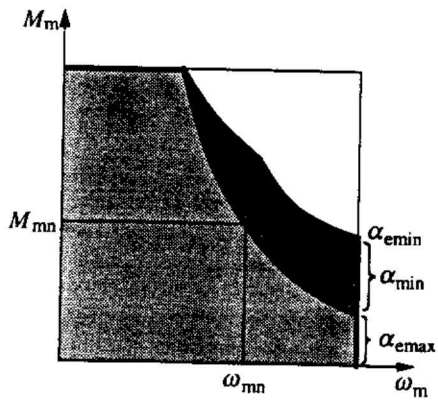
3

Moteur à excitation composite

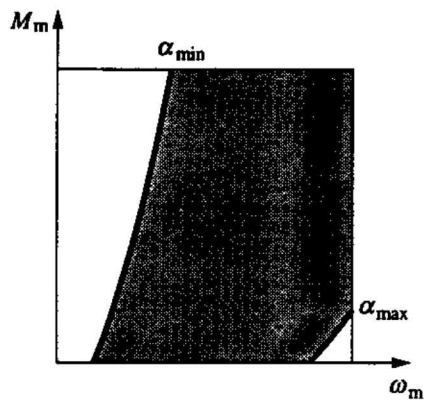


Commutateur traction-freinage 

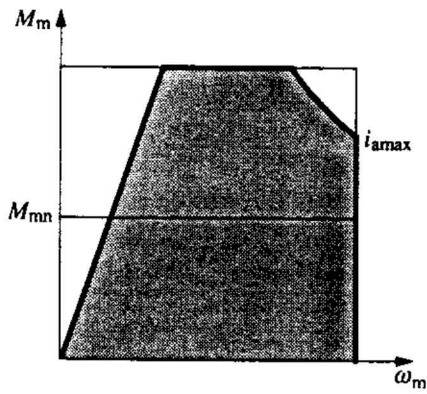
Commutateur de sens de marche 



Traction (1 à 3)



Freinage (1)



Freinage (2 et 3)