ABSTRACT

Electric train (KRL) is one of people mover, this vehicle is kind of suburban transportation. This train is used for sort distance service and that is used only in city or inter citys who has short distance route. KRL use electric motors for move the train is called traction motor. The location of this motors in uder desk of electric train.

In motor mover selection metode for electric train exspecially in KRL-I type, the important thing is characteristic of load, user power capacity for train, and maintenance or repairement. Three phase Induction motor squirrel cage rotor and dc serie motor are alternative for traction motor as KRL mover.

We can get motor rating from calculation analysis and the other advisment for three phase motor induction motor squirrel cage and dc serie motor. Three phase motor induction squirrel cage better choice than dc series motor, we can comparation both of them that is about speed controll, breaking system, starting system and comparison maintenance and repairing motors.

Key word : electric train, load characteristic, induction motor, dc serie motor.