



The Motor Control Warehouse

Use of slip compensation with Inverters

MCW Hints & Tips MCW0002

A standard 50Hz, 4 pole AC induction motor which will run at approximately 1500rpm when unloaded. As load is applied to the motor, it will slow down to its rated speed at rated output current. This could be 1450rpm for example at rated output current.

In some applications, it maybe desirable to maintain a constant speed and prevent a drop in motor speed as the motor is loaded.

With an AC inverter, it is usually possible to enter the slip speed within the drive parameters. This parameter usually has the name 'Motor rated speed' and the data can be found on the motor nameplate.

This slip speed is used to calculate the speed adjustment required, under load, to maintain a constant output speed.



