

3相ACモーターのスパイスモデル作成に必要な情報

事例

Motenergy, Inc (ME0913)

Motor Electrical Parameters

- Operating Voltage Range.....0 – 72 V_{MAX}
- Rated Continuous Current.....140 Arms
- Peak Stalled Current.....400 Arms
- Voltage Constant.....50 RPM/V
- Phase Resistance (L-L).....0.0125 Ω
- Phase Inductance.....105uH at 120Hz, 110uH at 1kHz
- Maximum Continuous Power Rating.....17KW at 102V_{DC} Battery Voltage
14.3KW at 84V_{DC} Battery Voltage
12KW at 72V_{DC} Battery Voltage

Motor Mechanical Parameters

- Rated Speed.....3000 RPM
- Maximum Speed.....5000 RPM
- Rated Torque.....288 Lb-in
- Torque Constant.....1.6 Lb-in/A