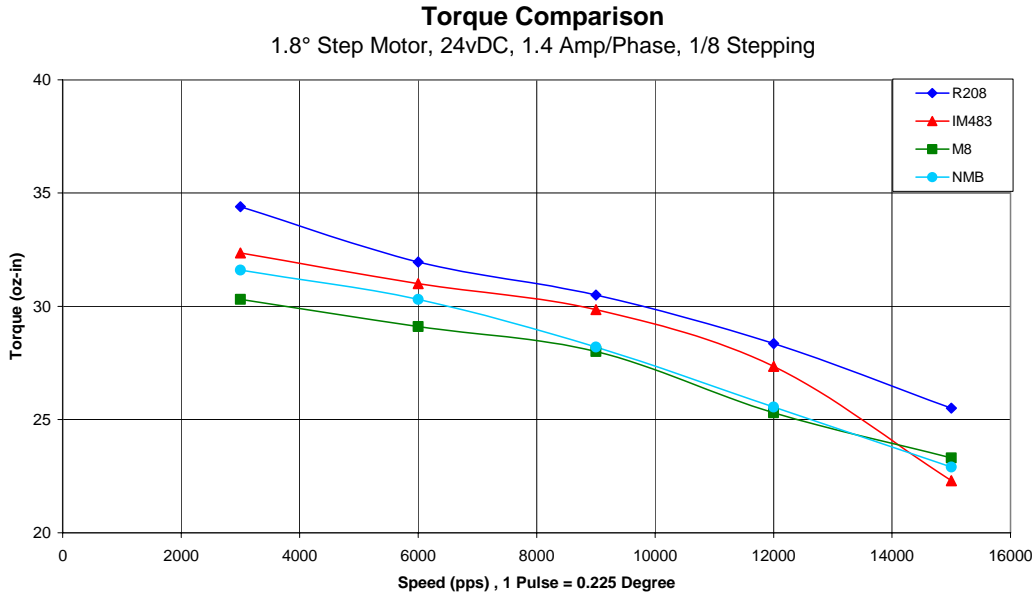


R208 Driver Performance Comparison

Torque Comparison

As a simple 2 Amp driver, the R208 outperforms all of its competitors in its class in maximizing the torque output of a step motor. In the test below you can see that it even outperforms the IMS IM483, a driver that costs over twice as much. Using a standard 1.8° step motor at 8x microstepping, you can see how the R208 outperforms the competition on the torque/speed curve below. The R208 gets over 10% more torque out of the motor at the various speeds compared to the lowest performer.



Temperature Comparison

The R208 directly competes with the IMS IB462. They are both 2 Amp peak drivers. Both feature full and half step, while the R208 is also capable of 4x and 8x microstepping. Using a standard 1.8° Step motor, 24 VDC, 2 Amps/phase, half-stepping, and 20 revolutions per second, you can see that the R208 runs much cooler than the IB462. After running both for 120 minutes the R208 is at 129° F (53.8° C), while the IB462 is at 138° F (58.8° C). If overall system temperature is important in your application, the R208 has a clear advantage running 9° F (5° C) cooler.

