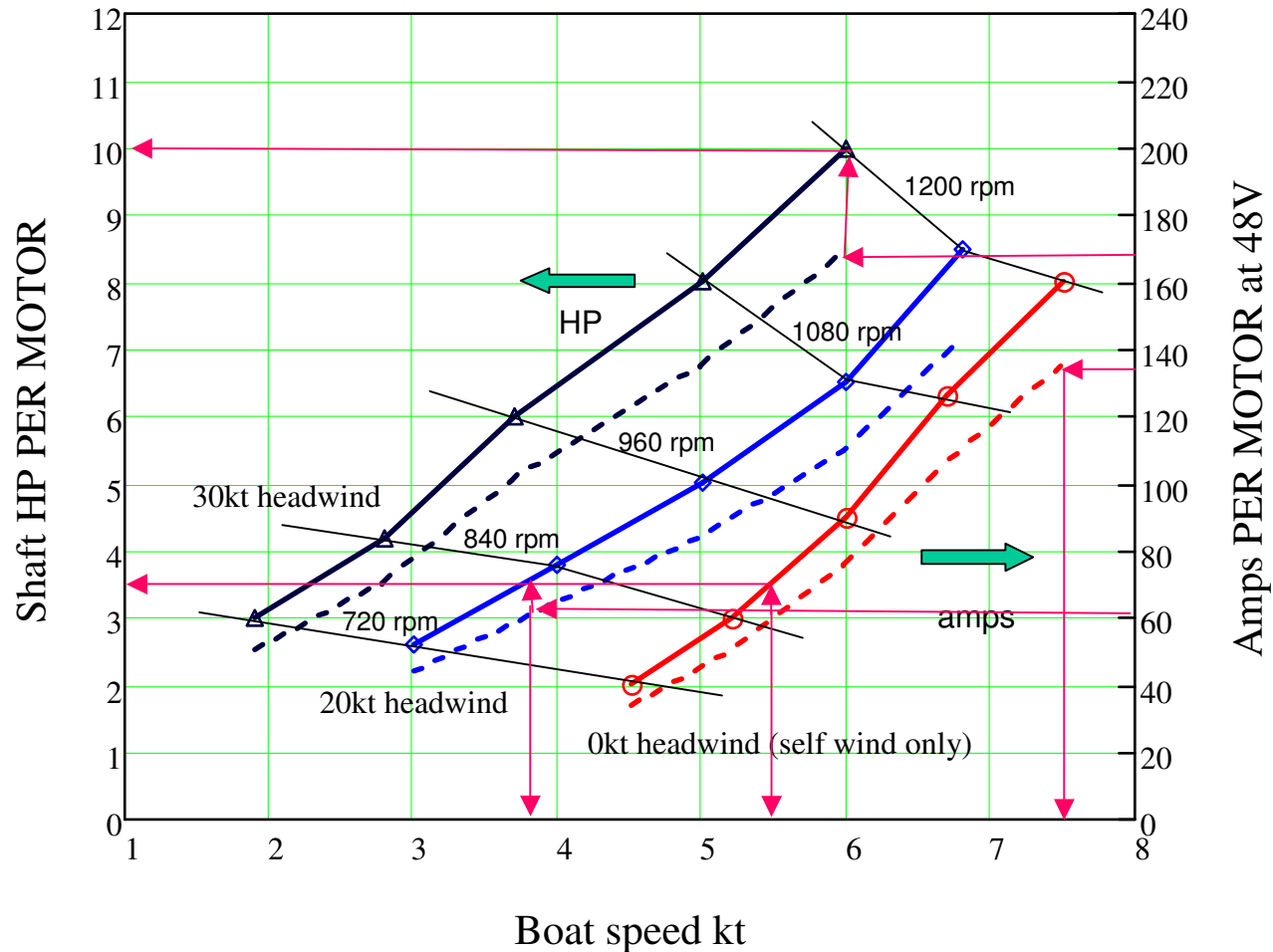


Application of two Epod 3000 electric propulsors to Gemini

Data are for EACH of the two motors so battery draw is twice amps shown

Solid lines – shaft HP per motor of two vs boat speed

Dashed lines – amps per motor of two vs boat speed



Calculations are based on Wageningen B curves 3 bladed 55% 14in dia, 11in pitch propeller at shaft speeds in the 1200 to 720 RPM speed range. As an example, at the suggested 60 Amp cruising level on each motor a Gemini can do 5.5 kt on a calm day, or 3.75kt into a 20kt headwind with a total of $2 \times 3.5\text{hp} = 7\text{ HP}$. The stated motor continuous rating of 170 Amps (340 Amps total for the two motors at 48V) will get you 20HP total to do 6kt into a 30kt headwind (less with a lot of wave action). $2 \times 135\text{ A}$ will give 7.5kt on a still day.