Re: Why not 400 Hz AC?

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- *From*: "Michael A. Terrell" <mike.terrell@xxxxxxxxxxxx>
- *Date*: Mon, 30 Apr 2007 18:06:51 GMT

Eric R Snow wrote:

> Reading the post about square wave AC I see that higher frequency AC
> makes for noisy motors and transformers. Is this the only reason not
> to use higher frequency power? It's obvious that smaller motors and
> etc. could save tons of money so it seems that there must be a good
> reason why everybody isn't switching to higher frequency devices.
> Speaking of higher frquency, would it be economical to use inverters
> to raise the frequency at the user's location so that smaller motors
> could be used? I use VFDs on my machine tools but they still drive
> physically large 60 Hz rated motors. I have them mounted in enclosures
> so I don't hear the VFDs singing and the motors don't seem that noisy.
> It is a machine shop though.
> Thanks,
> ERS

For the same reason 25 Hz was used in mines. Motor speed. Lets see
you use a VFD on a 400 HZ motor and get any usable torque out of it at
60 HZ or below.

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Service to my country? Been there, Done that, and I've got my DD214 to
prove it.
Member of DAV #85.

Michael A. Terrell
Central Florida
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