

**How is the P1000 rated and what are its limitations?**

The P1000 provides variable torque capability to align itself with centrifugal load applications such as fans and pumps. Continuous full torque is provided at full speed with an overload capability of 120% for 60 seconds. Continuous torque at lower speeds is restricted to variable torque levels (square of percent speed). This variable torque capability is different and more restrictive than the “normal duty” rating associated with other products such as A1000, therefore the P1000 is not appropriate for any constant torque applications.

**Where does the P1000 fit into Yaskawa's family of drives, and what does it offer beyond the P7?**

The P1000 is Yaskawa's industrial fan and pump drive. Over time, it will take the place of the P7. For detailed features and specifications of the P1000, visit [www.yaskawa.com](http://www.yaskawa.com).

**Is the P1000 ready for shipment?**

Yes, the P1000 is in stock and ready to ship.

**What are the ratings of the P1000?**

200-240V      3/4 to 175HP (3.2 to 415A)

380-480V      3/4 to 500HP (1.8 to 675A)

500-600V      1 to 250HP (1.7 to 242A)

Additionally, the P1000 will expand later in 2012 to 1000HP (1200A) @ 480V.

**What are the details regarding P1000 12 Pulse?**

P1000 12 Pulse capability is available only in 480V ratings from 58 to 1200 amps. For 58 through 675 amps, specific 12 pulse models provide this capability, and are only meant to be used for 12 pulse applications (different from previous generations). The 930 amp and 1200 amp models (to be released later in 2012) are field configurable for either 6 or 12 pulse applications.

**When will single phase input capacities be available for P1000 and what kind of derating is expected?**

Single phase input capacities are provided in A1000 / P1000 supplement TOEPYEASUP03 (available online), and will be included in a future revision of the P1000 technical manual.

**What training is available for P1000?**

P1000 Installation / Startup and Application Programming classes are available. Visit [www.yaskawa.com](http://www.yaskawa.com) to see the most up-to-date training schedule.

**When should we begin converting existing P7 business to P1000?**

This can take place any time on or after the official launch date of June 29<sup>th</sup>, 2012.

**Are A1000 accessories compatible with P1000?**

Yes, many A1000 Accessories are compatible with P1000, but P1000 has limitations (e.g. option cards). All compatible accessories are listed in the P1000 price book and catalog.

**What will happen to the P7?**

It will continue to be fully supported for at least one year after the P1000 launch date.

**What tools are available to help customers convert from P7 to P1000?**

A transition guide (PL.P1000.01) has been developed for this purpose. It is available on-line.

**Where is the P1000 manufactured?**

In Yaskawa's Buffalo Grove, IL and Oak Creek, WI facilities, depending on frame size.

**What P1000 enclosure types are available?**

NEMA 1 is the standard offering up to 200-240V 75HP, 380-480V 150HP, and 500-600V 100HP; IP00 protected chassis versions are available above those ratings. The standard product can be mounted conventionally, or with its heatsink external (with addition of NEMA 1 external heatsink kit for small drives); however, for installations requiring both NEMA 12 and heatsink external, the P1000 is offered in a special "Flange" model that provides NEMA 12 integrity on its backside.

**Are end caps (NEMA 1 kits) available for the protected chassis versions?**

Remember that NEMA 1 is now standard through ratings of 75HP @ 240V, 125HP @ 480V, and 100HP @ 600V. For drives larger than this, separate NEMA 1 kits are available. These kits are the same ones that are used for A1000

**Are adapter plates available for mechanical mount retrofitting of P7?**

Yes, these are the same adapter kits that are used for A1000 and are shown in both the P1000 and A1000 price books.

**Is the P1000 the same physical size as P7?**

On average, P1000 is 30% smaller than P7 with minimal difference on small ratings and significant differences on larger ratings. Your specific ratings of interest must be compared. P1000 can also be mounted side-by-side, further reducing panel space.

**Will the P1000 drive be part of the configured drive program?**

Yes, P1000C industrial UL Type 12 configured packages are scheduled to launch near the end of July, 2012. NEMA 3R is scheduled for availability in Fall, 2012.

**Does the P1000 have a functional safety (safe torque off) input?**

No, this is generally not required for fan and pump applications. In the rare cases when it is required, please use A1000.

**Can the 600V models be used with a 690VAC input voltage?**

No, the 600V models have an input voltage range of 500-600VAC, +10% / -15%. We do not plan to offer a 690V lower horsepower drive. The A1000 HHP drive, which is planned as the replacement for the G5 HHP, will have 480VAC and 690VAC modules.

**How can the design life of the P1000 be twice that of the P7?**

The P7 has demonstrated exceptional quality and longevity. The P1000 takes reliability to the next level with longer life power modules, cooling fans, improved thermal design, and reduced interconnects.

**What is RoHS?**

RoHS stands for Reduction of Hazardous Substances, and specifies maximum levels of materials such as lead, mercury, and cadmium. The P1000 is made of materials that comply with RoHS.

**What control methods does the P1000 offer?**

Only V/Hz control for induction motors is supported in P1000.

**Will there be a remote keypad option?**

Yes, the P1000 comes standard with a real time clock LCD version (JVOP-180C). There is also a real time clock version with a reflective back (JVOP-180CR) that is more readable in the sunlight.

**Will DriveWizard<sup>®</sup> Industrial be backward compatible?**

The new DriveWizard<sup>®</sup> Industrial will support all 1000 series drives as well as P7, P7, G7, and G5 drives. It will not support the 7 series of microdrives (they are obsolete), and it will not support the commercial drive products.

**Does the P1000 have a USB cable interface (instead of serial) for direct connection to a computer, and do I need anything else?**

Yes, like the A1000, P1000 also has a USB port on the front of the drive.

**What documentation ships with the product?**

The P1000 carton includes a paper copy of the Quick Start Guide (Manual No. TOEPYAIP1U01) which has everything required for installation through maintenance. The carton also includes a CD-ROM which contains the P1000 Quick Start Guide, P1000 Technical Manual (SIEPYAIP1U01), and documentation for most 1000 Series products and options.