

Fans and Pumps

Open-Loop Variable-Torque Standard Drive New VP3000

High Efficiency, Stability, and Lower Harmonics
Next-Generation Standard Drive for the Fluid Industry

- Controls various high-efficiency motors: IM, PM, and SynRM
- Effective harmonic suppression to extend system life: The lowest harmonics can reach THDi Min. 35%, better than EN 61000-3-12 standard
- The volume of the slim type appearance design is 23% smaller, compared to the previous generation
- Predictive Maintenance (PdM): Monitors key components service life for stable equipment operation
- Built-in EMC filter C2, C3
- Enhances the corrosion resistance capacity: The PCB coating complies with IEC 60721-3-3 class 3C3
- Built-in PLC 20k steps, with drive and controller integrated
- Built-in multi-pump function: Alternate operation, constant pressure mode, and pump redundancy



Effective Harmonic Suppression

- Adopts lower harmonic technology to effectively suppress harmonics without an extra reactor*
- The lowest harmonics can reach THDi min. 35%, much better than EN 61000-3-12 standard (THDi < 48%)



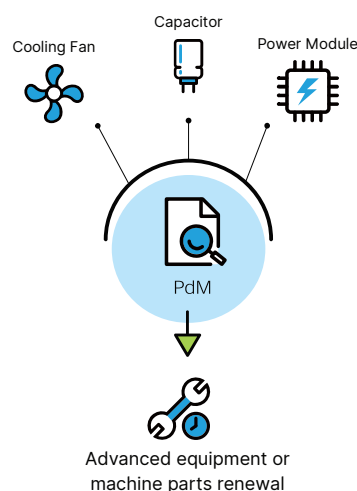
Motor drive without DC choke
THDi 107%



VP3000 with low harmonic technology
THDi 35%

Predictive Maintenance (PdM)

- Early maintenance notification for power module, capacitor, and cooling fan to allow replacement before end of service life and prevent sudden downtime



*Available in lower harmonic models. For details, please refer to Model Name Explanation.



Power Range	0.75 ~ 3.7 kW 1 ~ 5 HP	5.5 ~ 18.5 kW 7.5 ~ 25 HP	22 ~ 37 kW 30 ~ 50 HP	45 ~ 90 kW 60 ~ 125 HP	110 ~ 185 kW 150 ~ 250 HP	220 ~ 450 kW 300 ~ 600 HP	560 ~ 630 kW 715 ~ 850 HP
VP3000	460V/3-phase						

Applications

HVAC, Chiller, Air compressors, Tunnel ventilation, Water supply and treatment