Variable Speed Drives and Soft Starters	**HVAC Specialized Drive**	**Altivar 212**	**Dedicated HVAC drives for 0.75 to 75 kW motors** **It is specifically intended for the most commonly encountered fluid management applications in tertiary sector buildings (HVAC): heating, ventilation, air conditioning and pumping.** **Features** The Altivar 212 is a **variable speed drive** for **3-phase asynchronous motors** from 0.75 kW to 75 kW. It is specifically intended for the most commonly encountered fluid management applications in tertiary sector **buildings (HVAC): heating, ventilation, air conditioning and pumping.** Due to its eco-energy based design, energy savings of up to 70% can be achieved compared to a traditional control system. **Characteristics:** • Altivar 212 covers motor powers between 0.75 kW and 75 kW on the following supplies: •200…240V 3-phase, from 0.75 kW to 30 kW, IP 21 •380…480V 3-phase, from 0.75 kW to 75 kW, IP 21 •380…480V 3-phase, from 0.75 kW to 75 kW, UL Type 12/IP 55 • Speed range: 1:50 • Transient overtorque: 110% - 60 s. • Integrated EMC filters, categories C1 to C3 depending on model • **Communication bus most commonly used on the market integrated: Modbus, METASYS N2®, APOGEE FLN P1® and BACnet®.** Optional: LonWorks • Complies to international standards and certifications: UL, CSA, C-Tick and NOM • Antiharmonic technology enables a THDI < 30% to be achieved **Benefits** **Centred on Centralised Technical Management** • Instant viewing of the energy consumption. • Detection of failures for quick intervention: belt breakage, pump running dry, phase failure, supply fault, etc. • Preventative maintenance for reducing costs and optimising the equipment: fault alert, operating time, etc. • Connection to building supervision network using embedded protocols. **Centred on user-friendliness** • Tools for installing, parametering and viewing the

			installation (remote graphic terminal in 6 languages, Multi-Loader, Bluetooth and SoMove Mobile). • Compact size. • Simple maintenance. **Centred on protection** • Continuity of service assured. • Dedicated "Building" series functions (fire mode, register monitoring, mechanical protection function, etc. • Integrated EMC filter, antiharmonic technology (THDI ˜ 30%). **Applications** **Ventilation:** • Less noise pollution (airdraulic noise, motor noise, etc.). • Detection of transmission component breakage. • Smoke extraction: forced start with fault inhibition. • Automatic restart. • Allows register management. **Heating and Air conditioning:** • Optimise control in fluid processing. • Use of PID controller (temperature, flow rate, pressure, etc.). • Adjustable flow rates for better energy management. • Suppression of mechanical resonance. **Pumping:** • Detection of underload/overload, pump running dry. • Multi-motor configuration. • Limitation of operating time at low speed. • Sleep/Wake function. • Pressure surge suppression for prolonging the life of the installation.