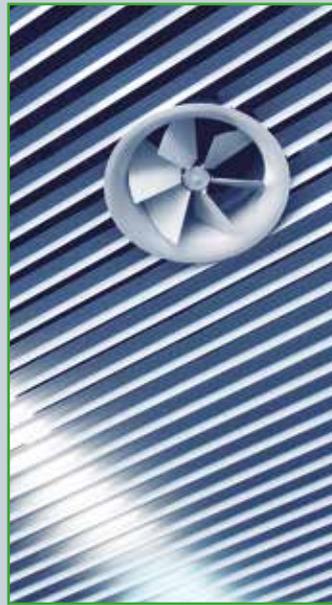


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Saving energy in HVAC and water pumping applications



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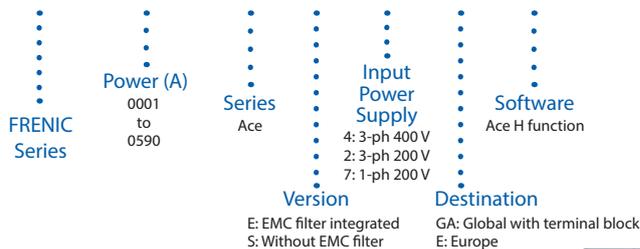
Power conservation and cost reductions through energy saving in HVAC and water pumping applications

- **NEW: Quadruple Rating**
- **System Protection Functions**
 - Slow flow rate
 - Check valve protection
 - Initial acceleration time
 - Over pressure
 - PID alarms
 - Wire break detection
- **Water supply and drainage system function**
 - Dynamic torque vector control
 - Cascade control (up to 4)
 - PID control (2 PID)
 - Mutual operation (up to 4)
 - Floating method
 - Fire mode
 - Starting mode (Auto search)
 - Auto energy saving
 - Customizable logic, Mini PLC (200 steps)
 - Automatic deceleration
 - Password function
- **STO functional safety function as standard**
 - STO SIL 3, Cat 3, PL e
- **Built-in EMC filter**
 - Built-in category C2/C3 EMC filter
- **PM synchronous motor drive**
 - PM motor drive is now possible with PM sensorless vector control.
- **Comprehensive communication support**

Equipped with BACnet communication protocol as standard to facilitate the productization of a variety of control and communication options. Construction of system support is made easily with these functions.

 - Standard support:
 - RS485
 - Modbus RTU
 - BACnet MS/TP
 - Metasys N2
 - Option cards:
 - Profibus DP
 - DeviceNet
 - Lonworks
 - BACnet/IP
 - Ethernet/IP
 - Profinet I/O
 - CAN Open
 - CC-Link
 - Relay output
 - Analog I/O expansion
 - Digital I/O expansion
 - Thermistor PT100 input card
- **Keypad built-in**
- **Multi-function keypad (option)**
 - Support for 19 languages + 1 customizable language
- **Pursuit of cost competitiveness**
 - Competitiveness realized with optimum design.

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