

Fact Sheet

# The FC 101 advantage for variable speed in HVAC

## EMC compliance according to AS 61800-3:2005, category C1



- No need for professionally qualified EMC personnel to install the VSDs to achieve EMC compliance
- Built-in with RFI filters compliant with AS 61800-3:2005
  - Category C1 with cable length of 10 m
  - Category C2 with cable length of 25 m
- Only VSD in its category to provide Category C1 compliance

## Suitable for 50 °C ambient temperature operation



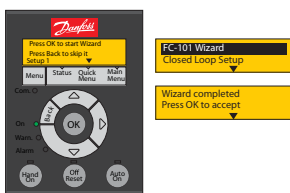
- Designed to operate up to a high ambient temperature of 50 °C
- Higher switching frequency of 4 kHz and 5 kHz offers quieter operation and smoother output current waveforms

## Best in class harmonic performance



- Dual DC-chokes over the entire range of kW ratings
- Provides lowest overall harmonic distortion values in its category.
- Maintain operation within the limits of AS 61000-3-12
- Robust against short supply voltage drops

## Quick and easy programming with HVAC wizards



- The programming wizard automatically takes you through the required programming parameters
- Wizard for motor set-up, open loop & closed loop applications
- Upload and download parameters using the removable display
- Full English alpha-numeric display

## BTL certified BACnet communication built-in



- Built-in BACnet MSTP communication
- Tested with most BMS companies controllers
- Modbus and Metasys N2 communication also built-in

## Essential HVAC functions built-in



- Fire mode – open and closed loop
- Sleep mode
- Flying start for fans
- Broken Belt protection for fans
- Bypass frequencies to overcome resonance
- Auto restart
- PI controller
- Square root function
- Thermistor input
- Pulse input
- Sequence controller
- Fast and easy motor tuning for induction and permanent magnet motors (SPM)