



**TRANSMISSION
AUSTRALIA**

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Incorporating



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SpeedMaster™ Integral Motor-Drive

CMG's new patented design represents the world's first truly integrated Motor-Variable Frequency Drive unit.

- factory programmed for your application
- internal integrated VVVF drive unit
- IP55 enclosure rating



Combining the reliability of a standard 3 phase motor with a 240V AC single phase VVVF drive.



Simple Speed Control



Conventional Motor Size

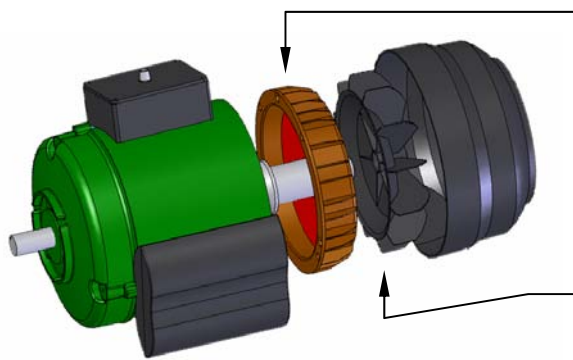


Electrical compliance



Single Phase Connection

Electronic Enclosure System



Aluminium shield with PCB Drive in resin Pot

- mechanical protection against vibration/shock
- heat sink function for electronics
- protection against moisture

Cooling Fan

- cools both electronics and motor

Features

Cost Competitive

- component level saving
- installation saving

Easy to Use

- no additional wiring
- no knowledge of programming required
- single phase input power
- simply controlled with a knob
- no external drive

Compact Design

- no bigger than an average motor
- no extra cooling fan
- electronic control integrated into motor body

Standard Enhancements

- speed controller knob
- soft start/stop

Optional Extras

- forward / stop / reverse switch
- fault reset switch
- remote speed controller knob

Customization

- frequency(speed) range : 1-100 Hz
- input voltage : 110/220/240 V
- input frequency : 50/60 Hz
- customised to VF curve requirements
- programmable start / stop ramp time
- fault level response for over voltage, under voltage, over temperature, repetitive faults
- independent cooling fan (for low speed applications)
- non-fan/cowl version for fan applications
- foot/flange motor mount

Standardization

- standard CMG components
- stator assembly
- rotor assembly
- terminal/capacitor box/cowl
- replaceable drive component

Applications

Practical

- fan applications
- pump applications
- conveyor systems
- geared motors
- other

Technical

- constant torque
- variable torque
- constant power

Technical Specs

Output kW & constant torque speed range

- 0.37kW, 20-60Hz, 600-1800 rpm
- 0.75kW, 20-60Hz, 600-1800 rpm
- 1.5kW, 30-60Hz, 900-1800 rpm

Thermal

- winding T.O. trip temp : 150°C
- power module T.O. trip temp : 100°C
- electronics T.O. trip temp : 80°C
- winding insulation class F

Compliance

- C-Tick EMC compliance

CE Warranty

- 1 year

Electrical/Electronic

- microcontroller based system
- Open Loop system
- supply power variance
 - voltage variance $\pm 15\%$,
 - frequency variance $\pm 15\%$
- protection - over voltage, under voltage, over current, repetitive fault
- transient/flicker resistant
- no drift and offset in performance
- repeatable programmed performance

Enclosure

- IP55