



MSC-3

AC Motor Speed Controller

IP66 Stainless Steel

- Up to 109 Amps (55 kW)
- Plain English Display
- Sensorless Flux Vector
- Flux Plus Motor Torque Maximiser
- Quiet Motor Operation
- High Ambient Operation
- PID Controller
- Communications
- Low Leakage EMC Filter Available



ZENER ELECTRIC

Australian Manufacturers of Variable Speed Drives and Soft Starters



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GENERAL SPECIFICATIONS

MSC-3R series

Supply: 380Vac (-15%) to 480V (+10%)
Output: 0 to 480Vac, 3 Phase, 0-200Hz

MSC-3L series

Supply: 208Vac (-15%) to 246V (+10%)
Output: 0 to 240Vac, 3 Phase, 0-200Hz

MSC-3J series

Supply: 440Vac (-15%) to 600V (+10%)
Output: 0 to 600Vac, 3 Phase, 0-200Hz

*Single Phase Supply

The MSC-3 has been engineered to also operate from a single phase supply. Consult your Zener distributor for further details and selection.
Ideal for 240V, 480V single Phase supplies

Enclosure:

Stainless Steel: IP66 (NEMA 4)

Control Specification

Control System: Sensor-less Flux Vector, sine coded PWM
Audible Frequency: 2 to 16KHz
(Maximum is load, speed & temp. dependant)
Frequency resolution: 0.10%
Frequency Linearity: 0.20% of maximum frequency

Standard Compliances

- C-Tick:  Integral EMC Filter for compliance with the Australian EMC Framework
- UL508C, AS3100
- AS61800.3, IEC61800.3

Options Available:

- DC Bus Choke
- Dynamic Braking
- Option Board - Extended Features incl. PID control and 24Vdc (20mA) Power Supply
- Option Board - Communications (Modbus) with trip/run log
- Option Board - Communications (Metasys) with trip/run log
- Low leakage EMC Filter (select models only)
- Remote display/control station

Note: The above features may require 1 or 2 option boards to be fitted. Consult your distributor for further details on options required
All products are designed in Australia. Manufacturing is based in Australia and selected overseas locations to deliver Australian expertise in a competitive environment



User Interface:

Display: Plain English LCD display
User defined variable and display units using alphanumeric character set.
Up, Down, Enter, Escape, Stop/Reset.

Local Controls

Speed Reference

Local: Up/Down push buttons
Analogue Inputs: 2 Analogue Input
0-5V, 0-10V, 0-20mA, 4-20mA
Differential, common mode range +/-25Vdc
7 programmable Speeds
Remote Up/Down speed control
+5V reference provided for remote speed
Essential Service Over-ride,
User selectable reference

Inputs

Thermistor input: Thermistor, micro-therm, thermal switch or thermal overload
Digital Inputs: 5 Digital Inputs with programmable control functionality.
3 digital inputs for speed ref. selection
Selection: ESO, FWD, REV, FWD latch, REV latch, JOGFWD, JOGREV, Remote, Up, Down Stop/Reset

Outputs

Digital Outputs: 2 Relays with programmable functionality, Additional relays available with option board
Selection: Run, Trip, ESO, Proof, Zero speed, At speed, Under speed, Over speed, On, Off, Auto restart Fail, FWD, REV, Enabled, I²T Trip, Over temperature, PV Over, PV Under.
Analogue Outputs: Up to 2 Analogue Outputs with programmable functionality.
0-5V, 0-10V, 0-20mA, 4-20mA
Selection: Hz, rpm, %load, Amps, Volts DC, kW, Volts AC, °C/°F, I²T used.

Distributed by

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