

# MSC-3 24Volt OPTION BOARD

## ZENER TECHNOLOGY AND QUALITY ASSURANCE

Since 1978 Zener Electric has supplied many thousands of AC drives to industry. These drives have been installed into numerous applications resulting in a wealth of in house experience. The Zener MSC-3 AC variable speed controller is the culmination of this experience, modern technology and industrial application requirements. The Zener Quality Assurance program ensures that every MSC-3 manufactured has proven to operate correctly in the production test bay before dispatch.

## MSC-3 PRODUCT WARRANTY

Zener Electric warrants the MSC-3 against defective workmanship and materials for a period of 24 months from the date of dispatch. Such defects will be rectified free of charge for both labour and material, at Zener Electric's premises subject to:

1. Zener Electric' s customer raising an order upon Zener for service and/or repairs, subject to a warranty claim. The order is to state particulars of the model and serial number, the date of original purchase and invoice/delivery docket number.
2. All damage resulting from incorrect installation or use other than in accordance with the instruction manuals issued by Zener Electric is excluded from this warranty.
3. The Warranty being rendered invalid if the product is misused or if any unauthorised alteration, modification or substitution of any part of the product be made or the serial number of the product is defaced or altered.
4. The cost of transportation (both ways) is to be met by the owner if it' s necessary to return the product, or any part of it, to Zener Electric's premises.
5. A charge being accepted by the owner for travelling time and expenses incurred in connection with warranty service at the user' s site as requested by the owner.
6. If the product was not purchased from Zener Electric directly, then a warranty claim must be lodged with the original supplier in the first instance. Repairs will not be effected by Zener Electric unless approved by the original supplier. Goods not of our own manufacture incorporated in our supply or sold by us, carry their maker' s warranty only.
7. Goods returned for claim under warranty will be accepted on the condition that should the claim be rejected then all costs, including inspection, will be charged to the customer' s account.
8. Zener Electric is not liable for any consequential loss.

## SAFETY

Your MSC-3 must be applied, installed and operated in a safe manner. It is the responsibility of the user to ensure compliance with all regulations and practices covering the installation and wiring of your MSC-3. The instruction manual should be completely read and understood before attempting to connect or operate the MSC-3. Only skilled personnel should install this equipment.

**THE CONTENTS OF THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE**

## Introduction

This guide describes the installation, and operations of the **MSC-3 24Volt** option.

### Specifications:

- Galvanic isolation to +/- 42volts with respect to chassis earth.
- 24 Volts +/- 10% at 20 mA
- Short circuit protected

## Installation

**WARNING!** The MSC3 under operation has hazardous internal voltages. Ensure all power sources are removed for the duration of the Option Board installation. Allow at least 2 minutes for hazardous voltage levels to discharge.

### IP30 Chassis A Installation

1. Ensure all power sources have been removed for at least 2 minutes and that they remain that way for the rest of the installation.
2. Remove the bottom section of the MSC3 blue plastic moulding to reveal the power terminals.
3. Remove the screw holding the control board/display assembly and pull it off the drive.
4. Turn the control board/display assembly over and plug the Option Board into one of the available option connectors.
5. Lay the mylar insulation sheet on top off the exposed metal work and replace the control board/display/option assembly.
6. Replace the original mounting screw and install the Option Board mounting screw. The Option Board is ready for wiring as indicated at the option board terminal block.
7. Once wiring is complete replace the bottom moulding.

### IP 66 Chassis A Installation and all other chassis

1. Ensure all power sources have been removed for at least 2 minutes and that they remain that way for the rest of the installation.
2. Open the front door and remove the screws securing the control board to the chassis and lift of the control board.
3. Turn the control board over and plug the Option Board into one of the available option connectors.
4. Lay the Mylar insulation sheet on top off the exposed metal work and replace the control board/option assembly.
5. Replace the mounting screws. The Option Board is ready for wiring as indicated at the option board terminal block.
6. Once wiring is complete close the front door.

### **Australian Manufacturers**

DELIVERY ADDRESS  
366 Horsley Road  
MILPERRA  
NSW 2214  
AUSTRALIA

POSTAL ADDRESS  
P.O. Box 4462  
MILPERRA DC  
NSW 1891  
AUSTRALIA

### **ZENER ELECTRIC PTY LIMITED**

ACN 001 595 428

Tel: +61-2 – 9795 3600

Fax: +61-2 – 9795 3611

Email: zener@zener.net

