

62MV1122S, 62MV1124S, 62MV2124S & 62MV2322S Sanitary Variable Speed VFD Controllers





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Warnings – General Safety

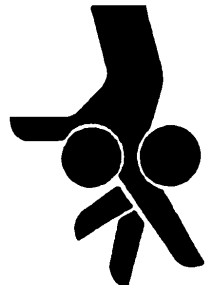

| | | |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------|
|  | WARNING |  |
| <p>The safety alert symbol, black triangle with white exclamation, is used to alert you to potential personal injury hazards.</p> | | |

| | | |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|
|  |  | DANGER |
| <p>Climbing, sitting, walking or riding on conveyor will cause severe injury. KEEP OFF CONVEYORS.</p> | | |

| | | |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|
|  |  | DANGER |
| <p>DO NOT OPERATE CONVEYORS IN AN EXPLOSIVE ENVIRONMENT.</p> | | |

| | | |
|-------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------|
|  | WARNING |  |
| <p>Controller must be properly grounded. Failure to properly ground controller may cause injury to personnel.</p> | | |

| | | |
|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|  |  | WARNING |
| <p>Exposed moving parts can cause severe injury. DO NOT ATTEMPT ADJUSTMENTS WITH CONVEYOR RUNNING.</p> | | |

| | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|  |  | WARNING |
| <p>Dorner cannot control the physical installation and application of conveyors. Taking protective measures is the responsibility of the user. When conveyors are used in conjunction with other equipment or as part of a multiple conveyor system, CHECK FOR POTENTIAL PINCH POINTS and other mechanical hazards before system start-up.</p> | | |

Introduction

IMPORTANT: Some illustrations may show guards removed. Do NOT operate equipment without guards.

Upon receipt of shipment:

- Compare shipment with packing slip. Contact factory regarding discrepancies.
- Inspect packages for shipping damage. Contact carrier regarding damage.

- Accessories may be shipped loose. See accessory instructions for installation.

Dorner conveyors are covered by the following patent numbers: 5131529, 5156260, 5156261, 5174435, 5203447, 5265714, 5875883, and corresponding patents and patent applications in other countries.

Dorner's Limited Warranty applies.

Dorner reserves the right to make changes at any time without notice or obligation.

Product Description

Dorner 62MV1122S, 62MV1124S, 62MV2124S and 62MV2322S Sanitary Variable Speed VFD Controllers (Figure 1) are AC motor speed controllers for Standard and Heavy Load Sanitary VFD gearmotors.

NOTE: For additional information, refer to the AC Tech MC1000 Series Installation and Operating Manual shipped with your controller. See Specifications table for models.

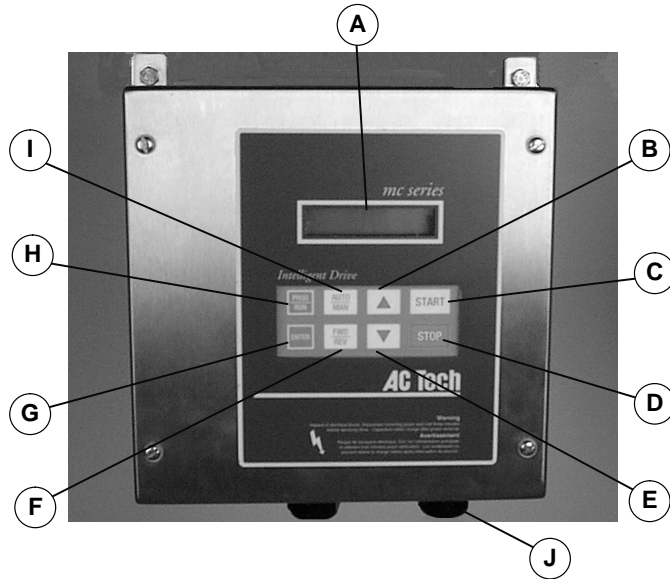


Illustration References

- A Display
- B Increase Speed Button
- C Start Button
- D Stop Button
- E Decrease Speed Button
- F FWD/REV (Forward/Reverse) Button
- G Enter Button
- H PROG/RUN (Program/Run) Button
- I AUTO/MAN (Automatic/Manual) Button
- J Line Connection Cord Grip
- K M6 x 16 mm Stainless Steel Hex Head Cap Screws (2x)
- L Stainless Steel Mounting Clips (2x)

Figure 1

Specifications

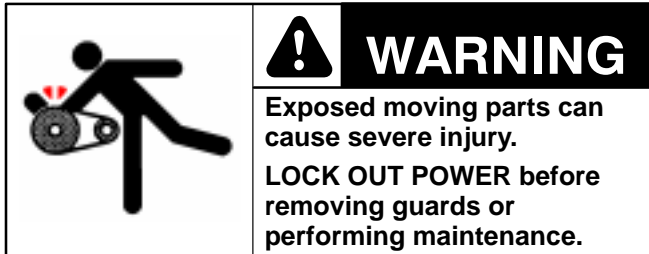
| Dorner Model Number | Input Voltage & Phase | Output Voltage & Phase | Output Frequency | Maximum Hp (kW) | Maximum Output in Amperes | Enclosures | Manufacturer's Model Number |
|---------------------|-----------------------|------------------------|------------------|-----------------|---------------------------|----------------|-----------------------------|
| 62MV1122S | 120/240 Single Phase | 230 Volts Three Phase | 10 to 60 Hz | 0.5 (0.37) | 2.2 | NEMA 4x (IP65) | M1105SE |
| 62MV1124S | 120 Single Phase | | | 0.25 (0.19) | 1.4 | | M1103SE |
| 62MV2124S | 240 Single Phase | | | 0.5 (0.37) | 2.2 | | M1205E |
| 62MV2322S | 240 Three Phase | | | | | | |

Installation

Required Tools

- 10 mm wrench
- Flat-blade screwdriver
- Torque wrench

Mounting



1. Position clips (K of Figure 2) on conveyor.

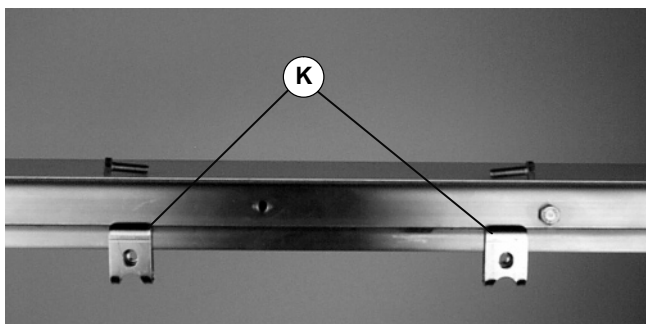
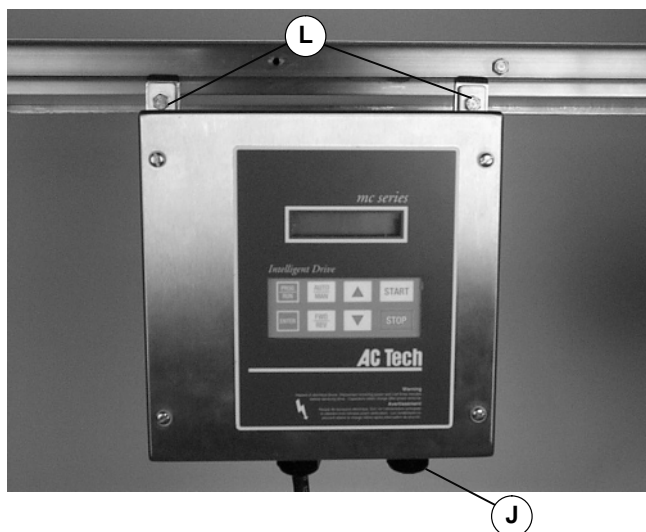
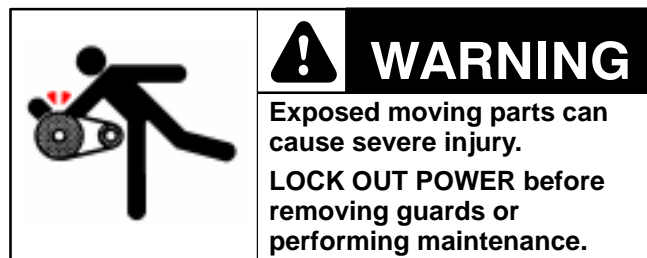


Figure 2

2. Attach controller (M) to clips with screws (L of Figure 3). Secure screws to 92 in-lb (10.4 Nm).



Wiring



NOTE: A circuit breaker or a disconnect switch with fuses must be provided in accordance with the National Electrical Code (NEC) and all local codes.

Refer to the AC Tech MC1000 Series Installation and Operating Manual shipped with your controller. See the sections from “AC Requirements” through “MC1000 Power Wiring Diagram”. See Table of Contents for page numbers.

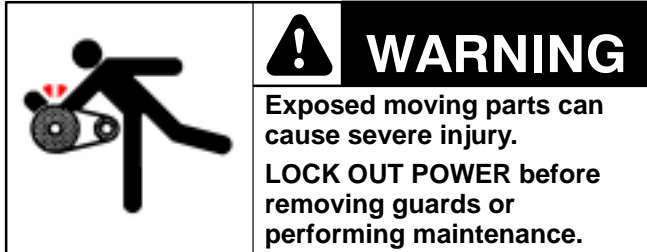
1. Make the input power connections through the line connection cord grip (J of Figure 3). Refer to the manufacturer’s manual for terminations inside the VFD controller.

Preventive Maintenance and Adjustment

Required Tools

- Flat-blade screwdriver

Controller Setup



NOTE: For additional information or desired settings other than listed, refer to the AC Tech MC1000 Series Installation and Operating Manual shipped with your controller. See Specifications table for model.

When purchased with a gearmotor, Dorner configures a Sanitary Variable Speed VFD Controller as follows:

- 1 second acceleration time
- 1 second deceleration time
- Minimum frequency @ 10 Hz
- Maximum frequency @ 60 Hz
- Overloads set to motor Full Load Amperes (FLA)

Service Parts

NOTE: For replacement parts, refer to the AC Tech MC1000 Series Installation and Operating Manual shipped with your controller.

Return Policy

No returns will be accepted without prior written factory authorization. When calling for authorization, please have the following information ready for the Dorner Factory representative or your local distributor:

1. Name and address of customer.
2. Item(s) being returned.
3. Reason for return.
4. Customer's original order number used when ordering the item(s).
5. Dorner or distributor invoice number.

A representative will discuss action to be taken on the Returned items and provide a Returned Goods Authorization Number to reference.

There will be a 15% restocking charge on all new items returned for credit where Dorner was not at fault. These will not be accepted after 60 days from original invoice date. The restocking charge covers inspection, cleaning, disassembly, and reissuing to inventory.

If a replacement is needed prior to evaluation of returned item, a purchase order must be issued. Credit (if any) is issued only after return and evaluation is complete.

Dorner has representatives throughout the world. Feel free to contact Dorner for the name of your local representative. Our technical sales and service staff will gladly help with your questions on Dorner products.

For a copy of Dorner's Limited Warranty, contact factory, distributor, service center or visit our website @ www.dorner.com

**For replacement parts, contact an authorized
Dorner Service Center or the factory.**

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DORNER MFG. CORP.

580 Industrial Drive, PO Box 20
Hartland, WI 53029-0020 USA
USA

TEL 1-800-397-8664 (USA)

FAX 1-800-369-2440 (USA)

Outside the USA:

TEL 1-262-367-7600, FAX 1-262-367-5827

DORNER

Arnold-Sommerfeld-Ring 2
D-52499 Baesweiler

Germany

TEL (02401) 80 52 90

FAX (02401) 80 52 93

Internet: www.dorner.com