Remote Keypad Control of Minarik
AC300/AC400 Series Drives

INSTALLATION AND OPERATION INSTRUCTIONS
Document Number: 250-0306

Introduction

This option is used to remotely mount the drive keypad and display when installing a chassis or NEMA 1 drive into another enclosure. The bezel is constructed of heavy-gauge steel, painted with textured gray enamel, and includes a gasket for NEMA 4 integrity.

Description

This assembly includes the remote keypad, remote interface board and interface cable. Refer to table 1 (page 2) for part numbers.

Tools Required

Phillips screwdriver
Standard (flat-blade) screwdriver
Needle-nose pliers
Anti-static wrist strap
11-32" socket nut driver or socket wrench
Jig saw
Drill with # 13 drill bit

Removal and Replacement Instructions

Note
AC300 / AC400 Series drives operate with single keypad and display only. Since the remote keypad kit includes the keypad and display, the removed keypad and display should be discarded.

Disassembly

1. Disconnect power from the drive and wait three minutes.
2. Remove the drive cover (if installed).
3. Put on an antistatic wrist strap. Clip to the ground connection (green nut) on the bottom of the drive.

Remove the keypad and display

1. Place a standard (flat-blade) screwdriver in the slot at either end of the keypad support bracket. Apply light upward pressure until the keyboard support bracket is free.
2. Unplug the keypad ribbon cable from the microprocessor control board.
3. Squeeze the tip of each nylon board support with the needle nose pliers. Carefully pull up on the display while squeezing the supports. Repeat this step for each support until the board is free.
4. Remove the four remaining display board supports, by applying pressure at the tip of the nylon support and pushing downward towards the microprocessor control board. Discard the board supports.

Remote keypad interface board

1. Install the remote keypad interface board in the same location as the inverter's display. Carefully align the pins of the remote keypad interface board with socket P5.
2. Align the four nylon board supports with the inverter's microprocessor control board. Apply light downward pressure to the nylon board support to lock the keypad remote interface board into position.

Panel Installation

1. Cut a rectangular hole in the panel 2.13 inches (54 mm) high, and 3.38 inches (86 mm) wide, as shown in Figure 1.
2. Drill four 0.188-in. diameter holes in the mounting panel as shown in Figure 1.

Installing the keypad

1. Carefully install the remote keypad through the cutout, aligning the keypad mounting studs with the mounting holes drilled in the previous step.
2. Install the four 0.25-in. self-locking hex nuts onto the keypad studs. Be careful not to overtighen the nuts. This may result in damage to the panel.

Connecting the interface cable

1. Insert the cable connector labeled DRIVE into the remote keypad interface board socket. The connector is keyed to prevent improper insertion. Align the die cable connector with the socket. Use care not to bend the connector pins. Squeeze the socket locking tabs to insure the cable is locked into position.
2. Insert the cable connector labeled REMOTE into the remote keypad socket located in the enclosure door. The connector is keyed to prevent improper insertion. Align the cable connector with the socket. Use care not to bend the connector pins. Squeeze the socket locking tabs to insure the cable is locked into position.

Routing the Interface cable

Observe the following guidelines when routing the interface cable:

1. Route the remote keypad interface cable away from all high voltage power and 120 VAC control wires.
2. Do not run the interface cable in parallel with high voltage power lines.
3. Secure the interface cable using self-adhesive wire tie pads and cable ties.

Table 1 Remote Keypad Option Kit Part Numbers

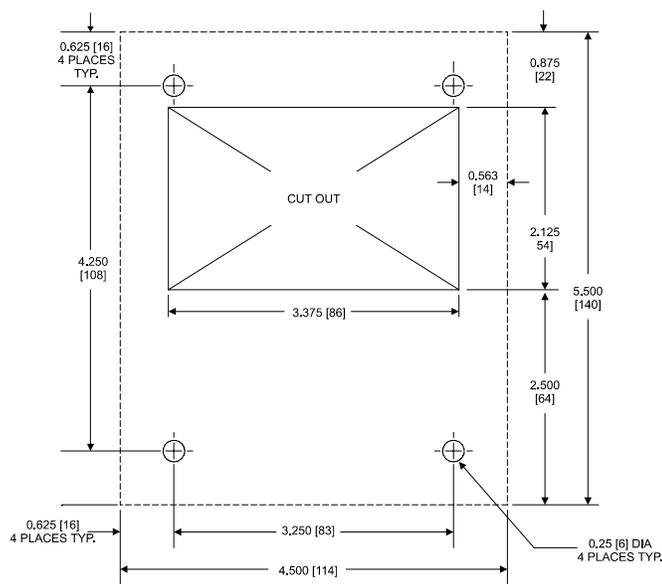| Item	Part Number
Remote keypad kit - 2.5 ft	841-004
Remote keypad kit - 5 ft	841-005
Remote keypad kit - 10 ft	841-006
2.5 ft (0.75m) interface cable	841-001
5 ft (1.5m) interface cable	841-002
10 ft (3m) interface cable	841-003

FIGURE 1. PANEL CUTOUT DIMENSIONS