Figures 5-1 to 5-6 show the overall and mounting dimensions of the basic unit types, details of which are as follows.

6.1 9500 -8302, -03 9500 -8602, -03 — FIGURE 5-1

This unit type covers the following ratings at 480 VAC:

9500-8302, -03 (5, 7.5, 10, 20 & 30 HP)
9500-8602, -03 (5, 7.5, 10, 20 & 30 HP)

The above units are cooled by natural convection and have an isolated heat sink which should be grounded for safety.

The drive may be mounted by either of the following methods:

a) By means of the two mounting brackets supplied, as shown in Figure 5-3.

b) Through a panel cutout, the heat sink projecting into a separate cooling duct.

The naturally-ventilated drives may be mounted by the means described in 6.1a and b above.

6.2 9500-8305, -06 9500-8605, -06 — FIGS. 5-2 THROUGH 5-3

The 9500-8X05 through 06 type covers the following ratings at 480 VAC:

9500-8305, -06 (40, 50, 60, 75 & 100 HP)
9500-8605, -06 (40, 50, 60, 75 & 100 HP)

The fan-cooled drives are surface mounted by means of the fan housing. Mounting dimensions are shown in Figure 5-3.

6.3 9500-8307 THROUGH -8311 9500-8607 THROUGH -8611 — FIGURE 5-4

The 9500-8X07 through -11 type covers the following ratings at 480 VAC:

9500-8307, 08, 09, 10, 11
(150, 200, 250, 300 & 400 HP)
9500-8607, 08, 09, 10, 11
(150, 200, 250, 300 & 400 HP)

These two models are fan cooled. The heatsinks on these models are not isolated and are Hot to the power line.

6.4 9500-8315 THROUGH -8320 9500-8615 THROUGH -8620

This unit type covers the following ratings at 480 VAC:

9500-8X15 (500 HP)
9500-8X16 (600 HP)
9500-8X17 (700 HP)
9500-8X18 (800 HP)
9500-8X19 (900 HP)
9500-8X20 (1000 HP)

These fan ventilated drives are mounted on a panel and are suitable for surface mounting only. See Figures 5-5 and 5-6. The heatsinks on these models are not isolated and are Hot to the power line.

6.5 DETERMINING THE CONTROL LOCATION

The control is suitable for most well-ventilated factory areas where industrial equipment is installed. Locations subject to steam vapors, excessive moisture, oil vapors, flammable or combustible vapors, chemical fumes, corrosive gases or liquids, excessive dirt, dust or lint should be avoided unless an appropriate enclosure has been supplied or a clean air supply is provided to the enclosure. The location should be dry and the ambient temperature should not exceed 55°C for free-standing chassis mount controls, or 40°C for enclosed controls mounted inside an enclosure. If the mounting location is subject to vibration, the unit should be shock mounted.

If the enclosure is force ventilated, avoid, wherever possible, an environment having a high foreign matter content as this requires frequent filter changes or the installation of micron-filters. Should the control enclosure require cleaning on the inside, a low pressure vacuum cleaner is recommended. Do not use an air hose because of the possibility of oil vapor contaminating the control. Compressed high air pressure may damage the control.

6.6 INSTALLING CHASSIS MOUNT CONTROLS

The Quantum control is suitable for mounting in a user's enclosure where the internal temperature will not exceed 55°C. When mounting the control, insure that the ventilation areas at each end of the control are clear.

Mount the control vertically against the mounting surface. Minimum clearances must be maintained within the cabinet to allow adequate air circulation around and through the drive.

Install the control in the cabinet, using Figures 5-1 through 5-7 for dimensional reference.

CAUTION

Never operate the control for an extended time on its back. The drive is designed for vertical operation and convection cooling.

WARNING

EQUIPMENT DAMAGE AND/OR PERSONAL INJURY MAY RESULT IF ANY JUMPER PROGRAMMING IS ATTEMPTED WHILE THE CONTROL IS OPERATIONAL. ALWAYS LOCK OUT POWER AT THE REMOTE DISCONNECT BEFORE CHANGING ANY JUMPER POSITIONS.