

GV2P Manual Motor Protectors Meeting UL 508 Type E and Type F Requirements

GV2P PROTECTORS NOW CARRY UL508 TYPE E AND TYPE F RATINGS

Application Differences: UL508 Type E and UL508 Type F

Underwriter's Laboratories has approved GV2P manual motor protectors:

- As UL508 Type E self-protected combination motor controllers when used with line side spacer GV2GH7
- As UL508 Type F combination motor controllers when used with specified magnetic contactors and line side spacer GV2GH7

The GV2P protector can now serve as an alternative to the INTEGRAL starter in UL508 self-protected starter applications. Changes in the standard effective July 2001 meant that the INTEGRAL starter no longer complied with the new requirements.

A UL508 Type E rating means that the unit clears a fault and does not experience any welding of the power poles. This is a stand-alone application for the GV2P manual motor protector with **no** contactor. The line side spacer (GV2GH7) **must** be used in these applications.

A UL508 Type F rating applies when a GV2P manual motor protector is used **with** a contactor. In such applications, welding of the contactor power poles is permissible. The line side spacer (GV2GH7) **must** be used for these applications.

For the combination of a contactor and manual motor to be listed as a UL 508 Type E assembly, the complete assembly must be tested and certified. Typically, to prevent the welding of contacts as required for Type E, the contactor must be oversized for the application. UL508 Type F allows for a closer match of the contactor size to the application and still provides proper protection.

The NEC regulations regarding group motor installations still apply to the GV2P manual motor protector. Although you can use comb bus assemblies, you do not need to use the line side spacer in group motor applications.

Group motor applications **do not** require a UL508 Type E device. NEC Section 430.53 makes no reference to this requirement.

Group Motor Installations

Figure 1: UL508 Type F Application: GV2P Protector and Contactor



Figure 2: UL508 Type E Application: GV2P Manual Motor Protector with Line Side Spacer



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