MOTOR DRIVE WITH INHERENT POWER ISOLATION

ABSTRACT

A motor drive comprises a power sub-assembly and a control sub-assembly. The control sub-assembly includes components that may be accessed within the sub-assembly housing during installation and maintenance of the drive. A main circuit board is configured to define a high voltage region and a low voltage region. The high voltage region is isolated by an interior barrier of the housing so that the components can be conveniently accessed. An operator interface is provided in the control sub-assembly. An interface circuit board is also isolated by the barrier. Desired spacing between the interface circuit board and a surface of the interface is provided by integrally molded spring structures and plungers that interface with underlying switches.

Fig. 1