

Drive Motor for Forklift

Forklift Drive Motors - MCC's or likewise known as Motor Control Centers are an assembly of one section or more that have a common power bus. These have been utilized in the automobile business since the 1950's, in view of the fact that they were utilized many electric motors. These days, they are utilized in other commercial and industrial applications.

Motor control centers are a modern practice in factory assembly for several motor starters. This machinery could include variable frequency drives, programmable controllers and metering. The MCC's are usually used in the electrical service entrance for a building. Motor control centers commonly are utilized for low voltage, 3-phase alternating current motors that vary from 230 V to 600V. Medium voltage motor control centers are designed for large motors that vary from 2300 volts to 15000 volts. These units make use of vacuum contractors for switching with separate compartments so as to attain power control and switching.

In locations where really dusty or corrosive methods are happening, the motor control center can be established in a separate air-conditioned room. Typically the MCC would be located on the factory floor near the machinery it is controlling.

A MCC has one or more vertical metal cabinet sections with power bus and provisions for plug-in mounting of individual motor controllers. Smaller controllers may be unplugged from the cabinet to complete maintenance or testing, while extremely large controllers could be bolted in place. Every motor controller consists of a solid state motor controller or a contractor, overload relays so as to protect the motor, fuses or circuit breakers in order to supply short-circuit protection as well as a disconnecting switch in order to isolate the motor circuit. Separate connectors allow 3-phase power in order to enter the controller. The motor is wired to terminals situated inside the controller. Motor control centers provide wire ways for field control and power cables.

Each motor controller within a motor control center could be specified with various alternatives. These options include: separate control transformers, extra control terminal blocks, control switches, pilot lamps, as well as numerous types of bi-metal and solid-state overload protection relays. They even have various classes of kinds of circuit breakers and power fuses.

There are a lot of alternatives regarding delivery of MCC's to the client. They can be delivered as an engineered assembly with interlocking wiring to a central control terminal panel board or programmable controller together with internal control. Conversely, they can be supplied prepared for the customer to connect all field wiring.

MCC's commonly sit on floors that are required to have a fire-resistance rating. Fire stops may be needed for cables that go through fire-rated walls and floors.