Forklift Drive Motors

Drive Motor Forklift - Motor Control Centers or likewise called MCC's, are an assembly of one enclosed section or more, which have a common power bus mostly comprising motor control units. They have been used since the 1950's by the automobile trade, as they utilized many electric motors. Now, they are utilized in a variety of commercial and industrial applications.

Motor control centers are a modern practice in factory assembly for several motor starters. This particular machine could include metering, variable frequency drives and programmable controllers. The MCC's are normally used in the electrical service entrance for a building. Motor control centers often are used for low voltage, 3-phase alternating current motors that vary from 230 volts to 600 volts. Medium voltage motor control centers are made for big motors that range from 2300 volts to 15000 volts. These units make use of vacuum contractors for switching with separate compartments to be able to attain power control and switching.

In locations where extremely dusty or corrosive methods are happening, the motor control center can be installed in a separate air-conditioned room. Usually the MCC would be located on the factory floor adjacent to the equipment 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 can be unplugged from the cabinet to be able to complete maintenance or testing, whereas very large controllers could be bolted in place. Each and every motor controller has a solid state motor controller or a contractor, overload relays to be able to protect the motor, fuses or circuit breakers to supply short-circuit protection and a disconnecting switch to be able to isolate the motor circuit. Separate connectors allow 3-phase power so as to enter the controller. The motor is wired to terminals situated in the controller. Motor control centers provide wire ways for field control and power cables.

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

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

Motor control centers usually sit on the floor and should have a fire-resistance rating. Fire stops can be necessary for cables that go through fire-rated floors and walls.