Forklift Drive Motors

Forklift Drive Motors - MCC's or Motor Control Centersare an assembly of one section or more that include a common power bus. These have been used in the automobile business ever since the 1950's, in view of the fact that they were made use of many electric motors. Today, they are used in different commercial and industrial applications.

Motor control centers are a modern practice in factory assembly for some motor starters. This particular machinery could comprise metering, variable frequency drives and programmable controllers. The MCC's are commonly used in the electrical service entrance for a building. Motor control centers frequently are utilized for low voltage, 3-phase alternating current motors which vary from 230 volts to 600 volts. 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 to be able to attain power control and switching.

In places where really corrosive or dusty processes are occurring, the motor control center could be established in a separate air-conditioned room. Normally the MCC would be located on the factory floor adjacent to the machinery it is controlling.

A MCC has one or more vertical metallic 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, whereas very big controllers could be bolted in place. Each motor controller has a contractor or a solid state motor controller, overload relays to protect the motor, circuit breaker or fuses in order to supply short-circuit protection and a disconnecting switch in order to isolate the motor circuit. Separate connectors enable 3-phase power in order to enter the controller. The motor is wired to terminals situated in the controller. Motor control centers offer wire ways for field control and power cables.

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

Concerning the delivery of motor control centers, there are numerous alternatives for the customer. These could be delivered as an engineered assembly with a programmable controller along with internal control or with interlocking wiring to a central control terminal panel board. On the other hand, they could be supplied prepared for the client 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 penetrate fire-rated walls and floors.