Forklift Drive Motors

Forklift Drive Motor - MCC's or likewise known as Motor Control Centersare an assembly of one or more sections that contain a common power bus. These have been utilized in the auto business ever since the 1950's, in view of the fact that they were used a large number of electric motors. Today, they are used in a variety of industrial and commercial applications.

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

In areas where very corrosive or dusty processes are happening, the motor control center may be established in a separate air-conditioned room. Typically the MCC will be situated on the factory floor near the machines it is controlling.

For plug-in mounting of individual motor controls, A motor control center has one or more vertical metal cabinet sections with power bus. In order to complete testing or maintenance, extremely big controllers could be bolted into place, whereas smaller controllers may be unplugged from the cabinet. Every motor controller consists of a contractor or a solid state motor controller, overload relays to protect the motor, fuses or circuit breakers to supply short-circuit protection and a disconnecting switch in order to isolate the motor circuit. Separate connectors enable 3-phase power to enter the controller. The motor is wired to terminals positioned in the controller. Motor control centers offer wire ways for field control and power cables.

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

There are various alternatives concerning 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. Conversely, they could be supplied ready for the customer to connect all field wiring.

MCC's generally sit on floors that must have a fire-resistance rating. Fire stops may be necessary for cables that penetrate fire-rated walls and floors.