Forklift Drive Motor

Forklift Drive Motor - MCC's or otherwise known as Motor Control Centersare an assembly of one or more sections which have a common power bus. These have been utilized in the vehicle trade ever since the 1950's, because they were used many electric motors. These days, they are utilized in other industrial and commercial applications.

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

In places where really corrosive or dusty processes are taking place, the motor control center can be installed in a separate air-conditioned room. Typically the MCC will be positioned on the factory floor close to the machines 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 so as to complete maintenance or testing, while extremely big controllers can be bolted in place. Every motor controller has a solid state motor controller or a contractor, overload relays to protect the motor, circuit breaker or fuses to provide short-circuit protection as well as a disconnecting switch so as to isolate the motor circuit. Separate connectors allow 3-phase power to be able to enter the controller. The motor is wired to terminals located within the controller. Motor control centers provide wire ways for field control and power cables.

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

There are lots of options 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 together with internal control. Conversely, they could be provided prepared for the customer to connect all field wiring.

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