Forklift Drive Motor

Forklift Drive Motors - MCC's or otherwise known as Motor Control Centersare an assembly of one section or more that include a common power bus. These have been used in the vehicle business since the 1950's, in view of the fact that they were utilized a lot of 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 equipment could comprise metering, variable frequency drives and programmable controllers. The MCC's are commonly utilized in the electrical service entrance for a building. Motor control centers often are utilized for low voltage, 3-phase alternating current motors which range from 230 volts to 600 volts. Medium voltage motor control centers are designed for large motors that vary from 2300V to 15000 V. These units use vacuum contractors for switching with separate compartments to be able to attain power switching and control.

Within factory area and locations which have corrosive or dusty processing, the MCC could be installed in climate controlled separated locations. Normally the MCC would be positioned on the factory floor next to 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 very big controllers can be bolted in place. Each and every motor controller consists of a contractor or a solid state motor controller, overload relays to protect the motor, circuit breaker or fuses so as to provide short-circuit protection and a disconnecting switch so as to isolate the motor circuit. Separate connectors allow 3-phase power in order to enter the controller. The motor is wired to terminals positioned inside the controller. Motor control centers provide wire ways for field control and power cables.

Within a motor control center, each motor controller could be specified with numerous various options. Some of the options include: extra control terminal blocks, control switches, pilot lamps, separate control transformers, and various types of solid-state and bi-metal overload protection relays. They even comprise various classes of kinds of circuit breakers and power fuses.

There are several options regarding delivery of MCC's to the customer. They could 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 set for the customer to connect all field wiring.

Motor control centers normally sit on the floor and should have a fire-resistance rating. Fire stops could be needed for cables which penetrate fire-rated walls and floors.