Forklift Drive Motors

Forklift Drive Motor - Motor Control Centers or likewise called MCC's, are an assembly of one enclosed section or more, that have a common power bus principally consisting of motor control units. They have been used since the 1950's by the auto trade, in view of the fact that they made use of lots of electric motors. Today, they are utilized in different commercial and industrial applications.

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

Within factory locations and area which have dusty or corrosive processing, the MCC can be installed in climate controlled separated locations. Normally the MCC would be located on the factory floor close 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 could be unplugged from the cabinet so as to complete testing or maintenance, whereas extremely big controllers can be bolted in place. Every motor controller has a solid state motor controller or a contractor, overload relays In order to protect the motor, circuit breaker or fuses to supply short-circuit protection and a disconnecting switch so as to isolate the motor circuit. Separate connectors allow 3-phase power so as to enter the controller. The motor is wired to terminals situated inside the controller. Motor control centers offer wire ways for power cables and field control.

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

Regarding the delivery of motor control centers, there are numerous alternatives for the client. These could be delivered as an engineered assembly with a programmable controller together with internal control or with interlocking wiring to a central control terminal panel board. On the other hand, they could be supplied ready for the customer to connect all field wiring.

MCC's commonly sit on floors which must have a fire-resistance rating. Fire stops can be required for cables that go through fire-rated walls and floors.