Drive Motor for Forklift

Forklift Drive Motor - Motor Control Centers or MCC's, are an assembly of one or more enclosed sections, which have a common power bus mostly containing motor control units. They have been utilized since the 1950's by the automobile business, for the reason that they used a lot of electric motors. Now, they are utilized in different commercial and industrial applications.

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

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

Every motor controller inside a motor control center can be specified with various choices. These options consist of: pilot lamps, separate control transformers, extra control terminal blocks, control switches, as well as many types of bi-metal and solid-state overload protection relays. They likewise have different classes of types of circuit breakers and power fuses.

There are lots of alternatives 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. On the other hand, they could be provided set for the customer to connect all field wiring.

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