Drive Motor for Forklifts

Forklift Drive Motor - Motor Control Centers or otherwise called MCC's, are an assembly of one enclosed section or more, which have a common power bus mostly consisting of motor control units. They have been used since the 1950's by the automobile business, because they utilized lots of electric motors. Now, they are used in various commercial and industrial applications.

Within factory assembly for motor starter; motor control centers are fairly common technique. The MCC's comprise variable frequency drives, programmable controllers and metering. The MCC's are usually found in the electrical service entrance for a building. Motor control centers commonly are used for low voltage, 3-phase alternating current motors that vary from 230 volts to 600 volts. Medium voltage motor control centers are designed for big motors that range from 2300V to 15000 V. These units make use of vacuum contractors for switching with separate compartments to be able to accomplish power control and switching.

Inside factory area and locations which have dusty or corrosive processing, the MCC could be installed in climate controlled separated locations. Usually the MCC would be located on the factory floor adjacent 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 can be unplugged from the cabinet to be able to complete maintenance or testing, while extremely big controllers could be bolted in place. Each and every motor controller consists of a solid state motor controller or a contractor, overload relays to be able to protect the motor, fuses or circuit breakers to provide short-circuit protection as well as a disconnecting switch to be able 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 provide wire ways for field control and power cables.

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

Regarding the delivery of motor control centers, there are many choices for the customer. 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 prepared for the client to connect all field wiring.

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