Drive Motor for Forklifts

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

Inside factory assembly for motor starter; motor control centers are quite common method. The MCC's comprise metering, variable frequency drives and programmable controllers. The MCC's are usually used in the electrical service entrance for a building. Motor control centers often are utilized for low voltage, 3-phase alternating current motors that vary from 230 V to 600V. Medium voltage motor control centers are intended for large motors which vary from 2300V to 15000 V. These units make use of vacuum contractors for switching with separate compartments in order to attain power switching and control.

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 situated on the factory floor near the equipment it is controlling.

For plug-in mounting of individual motor controls, A motor control center has one or more vertical metal cabinet sections with power bus. So as to complete maintenance or testing, very large controllers could be bolted into place, whereas smaller controllers can be unplugged from the cabinet. Each and every motor controller has a solid state motor controller or a contractor, overload relays to protect the motor, fuses or circuit breakers to supply short-circuit protection and a disconnecting switch in order to isolate the motor circuit. Separate connectors enable 3-phase power so as to enter the controller. The motor is wired to terminals situated in the controller. Motor control centers supply wire ways for power cables and field control.

In a motor control center, each motor controller can be specified with several different choices. Some of the alternatives comprise: pilot lamps, separate control transformers, extra control terminal blocks, control switches, and many types of bi-metal and solid-state overload protection relays. They also comprise different classes of types of circuit breakers and power fuses.

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

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