Drive Motor for Forklifts

Forklift Drive Motor - MCC's or also known as Motor Control Centersare an assembly of one section or more that contain a common power bus. These have been utilized in the automobile business ever since the 1950's, because they were used a lot of electric motors. These days, they are used in various commercial and industrial applications.

Within factory assembly for motor starter; motor control centers are quite common method. The MCC's comprise variable frequency drives, programmable controllers and metering. The MCC's are normally used in the electrical service entrance for a building. Motor control centers commonly are used for low voltage, 3-phase alternating current motors that range from 230 V to 600V. 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 in order to achieve power control and switching.

In factory locations and area that have corrosive or dusty processing, the MCC can be installed in climate controlled separated locations. Normally the MCC would be positioned on the factory floor close to the machines 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. To complete testing or maintenance, very large controllers can be bolted into place, while smaller controllers could be unplugged from the cabinet. Each motor controller has a contractor or a solid state motor controller, overload relays to be able 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 located inside the controller. Motor control centers offer wire ways for power cables and field control.

Each motor controller in a motor control center can be specified with various options. These choices comprise: separate control transformers, extra control terminal blocks, control switches, pilot lamps, and numerous types of bi-metal and solid-state overload protection relays. They likewise comprise different classes of types of circuit breakers and power fuses.

Regarding the delivery of motor control centers, there are several options 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 could be provided set for the client to connect all field wiring.

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