Drive Motor for Forklift

Forklift Drive Motors - Motor Control Centers or likewise called MCC's, are an assembly of one or more enclosed sections, which have a common power bus mostly consisting of motor control units. They have been used since the 1950's by the automobile trade, since they made use of a large number of electric motors. Now, they are utilized in other commercial and industrial applications.

Inside factory assembly for motor starter; motor control centers are somewhat common technique. The MCC's 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 often 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 2300 volts to 15000 volts. These units utilize vacuum contractors for switching with separate compartments in order to attain power switching and control.

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

Each and every motor controller within a motor control center could be specified with several alternatives. 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 comprise different classes of kinds of power fuses and circuit breakers.

There are various alternatives concerning delivery of MCC's to the client. They could be delivered as an engineered assembly with interlocking wiring to a central control terminal panel board or programmable controller along with internal control. On the other hand, they could be provided prepared for the client to connect all field wiring.

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