Drive Motor for Forklifts

Forklift Drive Motor - MCC's or also known as Motor Control Centersare an assembly of one or more sections which contain a common power bus. These have been utilized in the vehicle industry since the 1950's, because they were used lots of electric motors. Today, they are utilized in various commercial and industrial applications.

Motor control centers are a modern method in factory assembly for several motor starters. This particular machinery can consist of programmable controllers, metering and variable frequency drives. The MCC's are commonly seen 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 intended for big motors that range from 2300V to 15000 V. These units use vacuum contractors for switching with separate compartments so as to attain power control and switching.

In places where really corrosive or dusty processes are taking place, the motor control center can be established in a separate air-conditioned room. Normally the MCC will be located on the factory floor close to 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, really large controllers could be bolted into place, whereas smaller controllers could be unplugged from the cabinet. Each motor controller has a contractor or a solid state motor controller, overload relays to protect the motor, circuit breaker or fuses so as to provide short-circuit protection and a disconnecting switch so as to isolate the motor circuit. Separate connectors allow 3-phase power to be able 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.

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

There are numerous alternatives regarding 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 together with internal control. On the other hand, they can be provided prepared for the client to connect all field wiring.

MCC's generally sit on floors which must have a fire-resistance rating. Fire stops could be required for cables that go through fire-rated floors and walls.