Drive Motor for Forklift

Forklift Drive Motor - MCC's or Motor Control Centersare an assembly of one or more sections which include a common power bus. These have been used in the auto industry ever since the 1950's, as they were utilized a large number of electric motors. These days, they are utilized in a variety of commercial and industrial applications.

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

In factory locations and area that have corrosive or dusty processing, the MCC can be installed in climate controlled separated locations. Usually the MCC will be situated on the factory floor close 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 may be unplugged from the cabinet so as to complete maintenance or testing, while really big controllers could be bolted in place. Each motor controller has a solid state motor controller or a contractor, overload relays to protect the motor, fuses or circuit breakers to provide short-circuit protection as well as a disconnecting switch in order to isolate the motor circuit. Separate connectors enable 3-phase power to enter the controller. The motor is wired to terminals situated in the controller. Motor control centers supply wire ways for field control and power cables.

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

Concerning the delivery of motor control centers, there are many alternatives for the client. These can 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 prepared 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 may be needed for cables that penetrate fire-rated floors and walls.