Drive Motor for Forklift

Forklift Drive Motor - MCC's or likewise known as Motor Control Centersare an assembly of one or more sections that have a common power bus. These have been used in the auto industry since the 1950's, because they were utilized many electric motors. Nowadays, they are used in different commercial and industrial applications.

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

In factory area and locations that have corrosive or dusty processing, the MCC could be installed in climate controlled separated locations. Usually the MCC will be positioned on the factory floor adjacent to the machines it is controlling.

A MCC has one or more vertical metal cabinet sections with power bus and provisions for plug-in mounting of individual motor controllers. Smaller controllers can be unplugged from the cabinet so as to complete testing or maintenance, while extremely large controllers could be bolted in place. Each and every motor controller has a contractor or a solid state motor controller, overload relays to protect the motor, fuses or circuit breakers to supply short-circuit protection as well as a disconnecting switch so as 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 provide wire ways for power cables and field control.

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

There are various options 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. Conversely, they could be provided set for the client to connect all field wiring.

MCC's commonly sit on floors which should have a fire-resistance rating. Fire stops may be necessary for cables which go through fire-rated walls and floors.