Forklift Drive Motor

Drive Motor Forklift - MCC's or Motor Control Centersare an assembly of one or more sections which contain a common power bus. These have been utilized in the vehicle trade ever since the 1950's, in view of the fact that they were used a lot of electric motors. These days, they are utilized in different commercial and industrial applications.

Within factory assembly for motor starter; motor control centers are fairly common technique. The MCC's include programmable controllers, metering and variable frequency drives. The MCC's are normally found in the electrical service entrance for a building. Motor control centers often are used for low voltage, 3-phase alternating current motors which vary from 230 V to 600V. Medium voltage motor control centers are designed for large motors which range from 2300V to 15000 V. These units make use of vacuum contractors for switching with separate compartments so as to attain power switching and control.

In areas where very corrosive or dusty processes are occurring, the motor control center may be installed in a separate air-conditioned room. Normally the MCC would be located on the factory floor near 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 could be unplugged from the cabinet to complete maintenance or testing, while extremely large controllers could be bolted in place. Each motor controller consists of a solid state motor controller or a contractor, overload relays to be able to protect the motor, fuses or circuit breakers to provide short-circuit protection and a disconnecting switch to be able to isolate the motor circuit. Separate connectors enable 3-phase power to enter the controller. The motor is wired to terminals located inside the controller. Motor control centers supply wire ways for power cables and field control.

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

There are several options concerning delivery of MCC's to the customer. They can 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 prepared for the client to connect all field wiring.

MCC's generally sit on floors which should have a fire-resistance rating. Fire stops can be necessary for cables that penetrate fire-rated floors and walls.