Drive Motor for Forklifts

Drive Motor for Forklift - Motor Control Centers or otherwise called MCC's, are an assembly of one enclosed section or more, which have a common power bus mainly containing motor control units. They have been used ever since the 1950's by the vehicle trade, as they made use of many electric motors. Now, they are used in a variety of commercial and industrial applications.

Motor control centers are a modern practice in factory assembly for several motor starters. This machinery can comprise programmable controllers, metering and variable frequency drives. The MCC's are commonly seen 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 made for big motors that vary from 2300 volts to 15000 volts. These units make use of vacuum contractors for switching with separate compartments to be able to achieve power switching and control.

In areas where really dusty or corrosive processes are taking place, the motor control center may be installed in a separate air-conditioned room. Typically the MCC would 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 to complete maintenance or testing, whereas very big controllers can be bolted in place. Each motor controller has a solid state motor controller or a contractor, overload relays to be able to protect the motor, fuses or circuit breakers in order to provide short-circuit protection as well as a disconnecting switch to be able to isolate the motor circuit. Separate connectors enable 3-phase power to be able to enter the controller. The motor is wired to terminals positioned inside the controller. Motor control centers provide wire ways for power cables and field control.

Each and every motor controller in a motor control center can be specified with several choices. These options comprise: pilot lamps, separate control transformers, extra control terminal blocks, control switches, and many types of bi-metal and solid-state overload protection relays. They even have different classes of types of power fuses and circuit breakers.

There are a lot of options regarding delivery of MCC's to the customer. 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 can be provided set for the client to connect all field wiring.

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