Forklift Drive Motors

Drive Motor for Forklifts - MCC's or otherwise known as Motor Control Centersare an assembly of one or more sections that include a common power bus. These have been used in the vehicle business since the 1950's, because they were made use of lots of electric motors. Now, they are used in different industrial and commercial applications.

Inside factory assembly for motor starter; motor control centers are quite common method. The MCC's include programmable controllers, metering and variable frequency drives. The MCC's are normally used in the electrical service entrance for a building. Motor control centers often are utilized for low voltage, 3-phase alternating current motors that range from 230 volts to 600 volts. Medium voltage motor control centers are intended for big motors which range from 2300V to 15000 V. These units use vacuum contractors for switching with separate compartments so as to attain power switching and control.

In areas where really dusty or corrosive processes are taking place, the motor control center can be installed in a separate air-conditioned room. Normally the MCC would be positioned on the factory floor next to the machinery 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. To complete testing or maintenance, really large controllers could be bolted into place, whereas smaller controllers can be unplugged from the cabinet. Every motor controller consists of a contractor or a solid state motor controller, overload relays to protect the motor, circuit breaker or fuses to provide short-circuit protection as well as a disconnecting switch in order to isolate the motor circuit. Separate connectors allow 3-phase power to be able to enter the controller. The motor is wired to terminals positioned in the controller. Motor control centers supply wire ways for power cables and field control.

Every motor controller inside a motor control center can be specified with different choices. These choices include: control switches, pilot lamps, separate control transformers, extra control terminal blocks, as well as many kinds of bi-metal and solid-state overload protection relays. They even comprise different classes of kinds of power fuses and circuit breakers.

There are a lot of options regarding delivery of MCC's to the client. 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. On the other hand, they can be supplied set for the customer to connect all field wiring.

Motor control centers normally sit on the floor and must have a fire-resistance rating. Fire stops could be required for cables that go through fire-rated floors and walls.