Forklift Drive Motors

Forklift Drive Motor - Motor Control Centers or also called MCC's, are an assembly of one enclosed section or more, which have a common power bus mainly consisting of motor control units. They have been utilized ever since the 1950's by the vehicle business, because they utilized lots of electric motors. These days, they are utilized in a variety of commercial and industrial applications.

Motor control centers are a modern technique in factory assembly for several motor starters. This equipment can consist of variable frequency drives, programmable controllers and metering. The MCC's are usually 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 volts to 600 volts. Medium voltage motor control centers are intended for large motors which range from 2300V to 15000 V. These units use vacuum contractors for switching with separate compartments to be able to accomplish power control and switching.

In locations where really dusty or corrosive methods are taking place, the motor control center can be installed in a separate air-conditioned room. Usually the MCC will be situated 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 could be unplugged from the cabinet to be able to complete maintenance or testing, while very large controllers could 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, circuit breaker or fuses to supply short-circuit protection and 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 inside the controller. Motor control centers offer wire ways for power cables and field control.

Each and every motor controller inside a motor control center can be specified with several choices. These alternatives include: 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 comprise different classes of types of power fuses and circuit breakers.

Regarding the delivery of motor control centers, there are a lot of options for the consumer. These could 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 supplied prepared for the client to connect all field wiring.

Motor control centers usually sit on the floor and must have a fire-resistance rating. Fire stops can be needed for cables which penetrate fire-rated floors and walls.