Forklift Drive Motors

Forklift Drive Motor - MCC's or Motor Control Centersare an assembly of one section or more that have a common power bus. These have been used in the vehicle trade ever since the 1950's, for the reason that they were made use of many electric motors. Today, they are used in other commercial and industrial applications.

In factory assembly for motor starter; motor control centers are somewhat common practice. The MCC's comprise metering, variable frequency drives and programmable controllers. The MCC's are normally used 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 that range from 2300V to 15000 V. These units make use of vacuum contractors for switching with separate compartments to be able to accomplish power control and switching.

In areas where very corrosive or dusty methods are happening, the motor control center could be established in a separate air-conditioned room. Usually the MCC would be located on the factory floor adjacent 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 testing or maintenance, while extremely large controllers could be bolted in place. Each and every motor controller has a solid state motor controller or a contractor, overload relays In order to protect the motor, fuses or circuit breakers 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 enter the controller. The motor is wired to terminals positioned inside the controller. Motor control centers supply wire ways for power cables and field control.

Within a motor control center, each motor controller could be specified with lots of different options. Some of the alternatives include: pilot lamps, separate control transformers, extra control terminal blocks, control switches, and various kinds of solid-state and bi-metal overload protection relays. They also comprise different classes of kinds of power fuses and circuit breakers.

Concerning the delivery of motor control centers, there are lots of alternatives for the client. These could be delivered as an engineered assembly with a programmable controller together with internal control or with interlocking wiring to a central control terminal panel board. On the other hand, they can be provided set for the customer to connect all field wiring.

MCC's usually sit on floors that must have a fire-resistance rating. Fire stops can be needed for cables which go through fire-rated floors and walls.