Drive Motor Forklift

Forklift Drive Motor - Motor Control Centers or likewise called MCC's, are an assembly of one enclosed section or more, which have a common power bus mostly containing motor control units. They have been utilized since the 1950's by the auto business, in view of the fact that they utilized lots of electric motors. Today, they are used in other industrial and commercial applications.

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

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

Every motor controller within a motor control center could be specified with different choices. These choices include: pilot lamps, separate control transformers, extra control terminal blocks, control switches, and numerous kinds of solid-state and bi-metal overload protection relays. They likewise have various classes of types of circuit breakers and power fuses.

There are many choices 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 provided ready for the client to connect all field wiring.

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