Drive Motor Forklift

Forklift Drive Motor - 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, because they used a lot of electric motors. Nowadays, they are used in a variety of commercial and industrial applications.

Motor control centers are a modern technique in factory assembly for several motor starters. This machine could consist of programmable controllers, metering and variable frequency drives. The MCC's are commonly used in the electrical service entrance for a building. Motor control centers frequently are used for low voltage, 3-phase alternating current motors which range from 230 volts to 600 volts. Medium voltage motor control centers are designed for large motors which range from 2300V to 15000 V. These units use vacuum contractors for switching with separate compartments in order to achieve power switching and control.

In areas where really dusty or corrosive processes are happening, the motor control center may be installed in a separate air-conditioned room. Normally the MCC will be located on the factory floor adjacent to the machines 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. So as to complete maintenance or testing, extremely big controllers can be bolted into place, while smaller controllers can be unplugged from the cabinet. Each and every motor controller consists of a solid state motor controller or a contractor, overload relays so as to protect the motor, circuit breaker or fuses to provide short-circuit protection as well as a disconnecting switch so as to isolate the motor circuit. Separate connectors allow 3-phase power to enter the controller. The motor is wired to terminals positioned in the controller. Motor control centers offer wire ways for field control and power cables.

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

There are several alternatives 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. Conversely, they could be provided ready for the client to connect all field wiring.

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