Drive Motor Forklifts

Forklift Drive Motor - MCC's or Motor Control Centersare an assembly of one or more sections that include a common power bus. These have been utilized in the auto industry ever since the 1950's, because they were used a lot of electric motors. Today, they are utilized in a variety of industrial and commercial applications.

Motor control centers are a modern practice in factory assembly for some motor starters. This machine could include 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 V to 600V. Medium voltage motor control centers are intended for big motors which range from 2300 volts to 15000 volts. These units make use of vacuum contractors for switching with separate compartments to be able to accomplish power switching and control.

In locations where very dusty or corrosive processes are taking place, the motor control center can be installed in a separate air-conditioned room. Usually the MCC would be positioned on the factory floor close to the equipment 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, very big controllers could be bolted into place, while smaller controllers can be unplugged from the cabinet. Every motor controller has a contractor or a solid state motor controller, overload relays to be able to protect the motor, circuit breaker or fuses to provide short-circuit protection and a disconnecting switch to be able to isolate the motor circuit. Separate connectors allow 3-phase power so as to enter the controller. The motor is wired to terminals situated inside the controller. Motor control centers offer wire ways for field control and power cables.

Each and every motor controller in a motor control center can be specified with various options. These choices consist of: separate control transformers, extra control terminal blocks, control switches, pilot lamps, as well as numerous kinds of solid-state and bi-metal overload protection relays. They likewise have different classes of types of power fuses and circuit breakers.

There are lots of options regarding delivery of MCC's to the customer. They could be delivered as an engineered assembly with interlocking wiring to a central control terminal panel board or programmable controller together with internal control. Conversely, they can be provided prepared for the customer to connect all field wiring.

MCC's generally sit on floors that are required to have a fire-resistance rating. Fire stops may be needed for cables which go through fire-rated walls and floors.