Drive Motor for Forklifts

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 mostly containing motor control units. They have been used ever since the 1950's by the vehicle trade, because they made use of lots of electric motors. Now, they are utilized in different commercial and industrial applications.

Motor control centers are a modern technique in factory assembly for some motor starters. This particular machinery can include metering, variable frequency drives and programmable controllers. The MCC's are usually found in the electrical service entrance for a building. Motor control centers commonly are used for low voltage, 3-phase alternating current motors which vary from 230 V to 600V. Medium voltage motor control centers are made for big motors that vary from 2300V to 15000 V. These units make use of vacuum contractors for switching with separate compartments to be able to attain power control and switching.

In areas where extremely corrosive or dusty methods are happening, the motor control center can be installed in a separate air-conditioned room. Typically the MCC would be located on the factory floor next 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 testing or maintenance, really big controllers could be bolted into place, whereas smaller controllers can be unplugged from the cabinet. Every motor controller has a solid state motor controller or a contractor, overload relays so as to protect the motor, fuses or circuit breakers to provide short-circuit protection and a disconnecting switch to be able 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 provide wire ways for power cables and field control.

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

Concerning the delivery of motor control centers, there are several options for the client. These can 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 supplied prepared 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 could be required for cables that penetrate fire-rated floors and walls.