Drive Motor for Forklifts

Forklift Drive Motors - MCC's or likewise known as Motor Control Centersare an assembly of one section or more which include a common power bus. These have been utilized in the automobile industry ever since the 1950's, because they were used a large number of electric motors. Today, they are utilized in different industrial and commercial applications.

Inside factory assembly for motor starter; motor control centers are quite common technique. The MCC's include metering, variable frequency drives and programmable controllers. The MCC's are commonly found in the electrical service entrance for a building. Motor control centers frequently are used for low voltage, 3-phase alternating current motors that vary 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 in order to attain power switching and control.

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

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

Regarding the delivery of motor control centers, there are many options for the consumer. These could be delivered as an engineered assembly with a programmable controller along 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.

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