Drive Motor for 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 mostly comprising motor control units. They have been utilized since the 1950's by the auto industry, because they utilized a large number of electric motors. Nowadays, they are utilized in a variety of commercial and industrial applications.

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

In areas where really dusty or corrosive processes are taking place, the motor control center could be established in a separate air-conditioned room. Normally the MCC will be situated on the factory floor adjacent to the equipment 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 could be unplugged from the cabinet in order to complete testing or maintenance, while really big controllers can be bolted in place. Every motor controller has a solid state motor controller or a contractor, overload relays to protect the motor, circuit breaker or fuses in order to supply 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 provide wire ways for power cables and field control.

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

Concerning the delivery of motor control centers, there are several alternatives for the consumer. These could 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. Conversely, they can be provided ready for the customer to connect all field wiring.

MCC's generally sit on floors that should have a fire-resistance rating. Fire stops could be needed for cables that go through fire-rated floors and walls.