Drive Motor for Forklifts

Forklift Drive Motor - Motor Control Centers or likewise called MCC's, are an assembly of one or more enclosed sections, that have a common power bus mostly consisting of motor control units. They have been utilized ever since the 1950's by the auto business, for the reason that they made use of a lot of electric motors. Nowadays, they are utilized in various commercial and industrial applications.

In factory assembly for motor starter; motor control centers are quite common practice. The MCC's consist of variable frequency drives, programmable controllers and metering. The MCC's are normally used in the electrical service entrance for a building. Motor control centers often are utilized for low voltage, 3-phase alternating current motors that vary 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 make use of vacuum contractors for switching with separate compartments to be able to achieve power control and switching.

In factory locations and area that have corrosive or dusty processing, the MCC can be installed in climate controlled separated locations. Usually the MCC will be located on the factory floor close 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 so as to complete maintenance or testing, while really big controllers can be bolted in place. Every motor controller consists of a contractor or a solid state motor controller, overload relays to protect the motor, circuit breaker or fuses to supply short-circuit protection and 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 located in the controller. Motor control centers offer wire ways for field control and power cables.

Inside a motor control center, each motor controller can be specified with many different alternatives. Some of the options include: extra control terminal blocks, control switches, pilot lamps, separate control transformers, and numerous types 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 many alternatives for the customer. 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 supplied ready for the customer to connect all field wiring.

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