Drive Motor for Forklift

Drive Motor Forklifts - Motor Control Centers or likewise called MCC's, are an assembly of one or more enclosed sections, which have a common power bus mostly consisting of motor control units. They have been used ever since the 1950's by the automobile industry, in view of the fact that they used a large number of electric motors. These days, they are utilized in other commercial and industrial applications.

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

In places where very corrosive or dusty processes are happening, the motor control center may be installed in a separate air-conditioned room. Usually the MCC will be situated on the factory floor adjacent to the machinery 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 may be unplugged from the cabinet so as to complete maintenance or testing, whereas very big controllers could be bolted in place. Each and every motor controller has a solid state motor controller or a contractor, overload relays to protect the motor, fuses or circuit breakers to provide short-circuit protection as well as 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 inside the controller. Motor control centers offer wire ways for power cables and field control.

Inside a motor control center, each motor controller can be specified with several various choices. Some of the alternatives comprise: extra control terminal blocks, control switches, pilot lamps, separate control transformers, and many kinds of solid-state and bi-metal overload protection relays. They even comprise various classes of types of power fuses and circuit breakers.

Concerning the delivery of motor control centers, there are a lot of options 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. Conversely, they could be supplied set for the customer to connect all field wiring.

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