Forklift Drive Motors

Forklift Drive Motor - MCC's or otherwise known as Motor Control Centersare an assembly of one section or more which include a common power bus. These have been utilized in the auto trade ever since the 1950's, for the reason that they were used lots of electric motors. These days, they are used in other commercial and industrial applications.

Inside factory assembly for motor starter; motor control centers are rather common practice. The MCC's comprise metering, variable frequency drives and programmable controllers. The MCC's are usually seen in the electrical service entrance for a building. Motor control centers frequently are used for low voltage, 3-phase alternating current motors which vary from 230 volts to 600 volts. Medium voltage motor control centers are intended for large motors that vary from 2300 volts to 15000 volts. These units utilize vacuum contractors for switching with separate compartments in order to accomplish power control and switching.

In locations where extremely dusty or corrosive processes are happening, the motor control center could be established in a separate air-conditioned room. Typically the MCC will be positioned on the factory floor close to the machinery 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 can be unplugged from the cabinet in order to complete testing or maintenance, whereas really large controllers can be bolted in place. Each motor controller has a solid state motor controller or a contractor, overload relays to protect the motor, circuit breaker or fuses in order to provide 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 positioned in the controller. Motor control centers offer wire ways for field control and power cables.

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

There are a lot of alternatives regarding delivery of MCC's to the client. They can be delivered as an engineered assembly with interlocking wiring to a central control terminal panel board or programmable controller along with internal control. Conversely, they can be provided prepared for the client to connect all field wiring.

Motor control centers normally sit on the floor and must have a fire-resistance rating. Fire stops could be necessary for cables which penetrate fire-rated floors and walls.