Forklift Drive Motor

Forklift Drive Motor - MCC's or otherwise known as Motor Control Centersare an assembly of one or more sections which have a common power bus. These have been used in the vehicle industry since the 1950's, because they were made use of a large number of electric motors. Today, they are utilized in other industrial and commercial applications.

Within factory assembly for motor starter; motor control centers are somewhat common technique. The MCC's comprise programmable controllers, metering and variable frequency drives. The MCC's are usually seen in the electrical service entrance for a building. Motor control centers often are utilized for low voltage, 3-phase alternating current motors that range from 230 volts to 600 volts. Medium voltage motor control centers are designed for big motors that range from 2300V to 15000 V. These units use vacuum contractors for switching with separate compartments to be able to accomplish power switching and control.

In factory area and locations that have corrosive or dusty processing, the MCC can be installed in climate controlled separated locations. Normally the MCC will be located on the factory floor next to the machines 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 may be unplugged from the cabinet so as to complete maintenance or testing, whereas really big controllers could be bolted in place. Each motor controller consists of a contractor or a solid state motor controller, overload relays so as to protect the motor, fuses or circuit breakers to supply short-circuit protection as well as a disconnecting switch in order to isolate the motor circuit. Separate connectors allow 3-phase power in order to enter the controller. The motor is wired to terminals situated inside the controller. Motor control centers supply wire ways for field control and power cables.

Each and every motor controller inside a motor control center can be specified with several options. These options consist of: pilot lamps, separate control transformers, extra control terminal blocks, control switches, and many kinds of solid-state and bi-metal overload protection relays. They likewise comprise various classes of types of circuit breakers and power fuses.

There are lots of options regarding delivery of MCC's to the client. They could 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 could be provided ready for the customer to connect all field wiring.

MCC's usually sit on floors which must have a fire-resistance rating. Fire stops can be needed for cables that go through fire-rated floors and walls.