Forklift Drive Motor

Forklift Drive Motor - Motor Control Centers or MCC's, are an assembly of one enclosed section or more, which have a common power bus mostly containing motor control units. They have been utilized ever since the 1950's by the automobile industry, because they made use of a lot of electric motors. Now, they are used in other commercial and industrial applications.

Motor control centers are a modern practice in factory assembly for several motor starters. This particular equipment could comprise variable frequency drives, programmable controllers and metering. The MCC's are commonly used in the electrical service entrance for a building. Motor control centers frequently are utilized for low voltage, 3-phase alternating current motors that vary from 230 V to 600V. 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 in order to attain power switching and control.

In locations where extremely dusty or corrosive methods are happening, the motor control center may 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 so as to complete testing or maintenance, while extremely big controllers could be bolted in place. Each and every motor controller consists of a contractor or a solid state motor controller, overload relays to protect the motor, circuit breaker or fuses to provide short-circuit protection and a disconnecting switch in order to isolate the motor circuit. Separate connectors allow 3-phase power to enter the controller. The motor is wired to terminals situated inside the controller. Motor control centers offer wire ways for power cables and field control.

Each motor controller within a motor control center could be specified with several alternatives. These options comprise: control switches, pilot lamps, separate control transformers, extra control terminal blocks, as well as various kinds of bi-metal and solid-state overload protection relays. They likewise have various classes of kinds of power fuses and circuit breakers.

Regarding the delivery of motor control centers, there are lots of alternatives for the consumer. 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 prepared for the customer to connect all field wiring.

MCC's usually sit on floors which are required to have a fire-resistance rating. Fire stops could be required for cables that penetrate fire-rated floors and walls.