Drive Motor for Forklifts

Forklift Drive Motor - Motor Control Centers or likewise called MCC's, are an assembly of one enclosed section or more, which have a common power bus mostly consisting of motor control units. They have been utilized ever since the 1950's by the auto trade, since they made use of many electric motors. These days, they are used in a variety of industrial and commercial applications.

Inside factory assembly for motor starter; motor control centers are fairly common method. The MCC's comprise metering, variable frequency drives and programmable controllers. 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 which range from 230 V to 600V. Medium voltage motor control centers are intended 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 switching and control.

In areas where very dusty or corrosive methods are happening, the motor control center can be established in a separate air-conditioned room. Typically the MCC will be located on the factory floor near 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 could be unplugged from the cabinet to complete maintenance or testing, while extremely large 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 provide short-circuit protection and a disconnecting switch so as to isolate the motor circuit. Separate connectors allow 3-phase power in order to enter the controller. The motor is wired to terminals positioned inside the controller. Motor control centers supply wire ways for field control and power cables.

Each motor controller within a motor control center can be specified with different choices. These options consist of: 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 have different classes of types of circuit breakers and power fuses.

Regarding the delivery of motor control centers, there are several alternatives for the client. These can 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 could be provided prepared for the client 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 penetrate fire-rated floors and walls.