Forklift Drive Motor

Forklift Drive Motors - Motor Control Centers or 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 automobile industry, as they made use of a large number of electric motors. Today, they are used in a variety of commercial and industrial applications.

In factory assembly for motor starter; motor control centers are rather common method. The MCC's consist of 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 used for low voltage, 3-phase alternating current motors which range from 230 V to 600V. Medium voltage motor control centers are designed for big motors which range from 2300V to 15000 V. These units utilize vacuum contractors for switching with separate compartments in order to accomplish power switching and control.

In locations where very dusty or corrosive processes are taking place, the motor control center may be established in a separate air-conditioned room. Normally the MCC will be positioned on the factory floor next to the equipment it is controlling.

For plug-in mounting of individual motor controls, A motor control center has one or more vertical metal cabinet sections with power bus. So as to complete testing or maintenance, very big controllers can be bolted into place, whereas smaller controllers may be unplugged from the cabinet. Every motor controller consists of a contractor or a solid state motor controller, overload relays In order to protect the motor, fuses or circuit breakers so as to provide short-circuit protection as well as 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 located inside the controller. Motor control centers supply wire ways for field control and power cables.

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

Regarding the delivery of motor control centers, there are a lot of alternatives for the client. These could be delivered as an engineered assembly with a programmable controller together with internal control or with interlocking wiring to a central control terminal panel board. On the other hand, they could be supplied prepared for the client to connect all field wiring.

MCC's generally sit on floors which should have a fire-resistance rating. Fire stops may be required for cables which go through fire-rated floors and walls.