Forklift Drive Motors

Forklift Drive Motor - Motor Control Centers or MCC's, are an assembly of one enclosed section or more, which have a common power bus principally comprising motor control units. They have been used ever since the 1950's by the auto business, since they made use of many electric motors. Nowadays, they are used in various commercial and industrial applications.

In factory assembly for motor starter; motor control centers are fairly common practice. The MCC's include programmable controllers, metering and variable frequency drives. The MCC's are commonly seen in the electrical service entrance for a building. Motor control centers commonly are used for low voltage, 3-phase alternating current motors that vary from 230 V to 600V. Medium voltage motor control centers are made for big motors that vary from 2300V to 15000 V. These units make use of vacuum contractors for switching with separate compartments in order to achieve power switching and control.

In areas where very dusty or corrosive processes are happening, the motor control center could be established in a separate air-conditioned room. Normally the MCC will be located on the factory floor near the machinery 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 maintenance or testing, very large controllers can be bolted into place, while smaller controllers can be unplugged from the cabinet. Each and every motor controller consists of a solid state motor controller or a contractor, overload relays to protect the motor, fuses or circuit breakers so as to supply short-circuit protection as well as a disconnecting switch in order to isolate the motor circuit. Separate connectors enable 3-phase power to enter the controller. The motor is wired to terminals positioned inside the controller. Motor control centers offer wire ways for power cables and field control.

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

Regarding the delivery of motor control centers, there are many 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 can be provided prepared for the client to connect all field wiring.

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