

Forklift Drive Motors

Forklift Drive Motor - MCC's or Motor Control Centers are an assembly of one or more sections which contain a common power bus. These have been used in the automobile industry since the 1950's, because they were used a lot of electric motors. Now, they are utilized in a variety of industrial and commercial applications.

Within factory assembly for motor starter; motor control centers are rather common technique. The MCC's consist of programmable controllers, metering and variable frequency drives. The MCC's are normally found in the electrical service entrance for a building. Motor control centers commonly are used for low voltage, 3-phase alternating current motors which vary from 230 volts to 600 volts. Medium voltage motor control centers are intended for large motors which range from 2300 volts to 15000 volts. These units make use of vacuum contractors for switching with separate compartments in order to attain power switching and control.

In areas where really corrosive or dusty methods are occurring, the motor control center can be installed in a separate air-conditioned room. Normally the MCC will be situated on the factory floor near the machines 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. To complete testing or maintenance, extremely big controllers can be bolted into place, whereas smaller controllers may be unplugged from the cabinet. Each motor controller has a contractor or a solid state motor controller, overload relays so as to protect the motor, circuit breaker or fuses 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 situated inside the controller. Motor control centers offer wire ways for power cables and field control.

In a motor control center, each motor controller could be specified with many different choices. Some of the options comprise: extra control terminal blocks, control switches, pilot lamps, separate control transformers, and various kinds of solid-state and bi-metal overload protection relays. They likewise comprise different classes of kinds of circuit breakers and power fuses.

Concerning the delivery of motor control centers, there are many choices 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 ready for the customer to connect all field wiring.

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