

Forklift Drive Motors

Forklift Drive Motor - Motor Control Centers or MCC's, are an assembly of one or more enclosed sections, which have a common power bus mostly consisting of motor control units. They have been used since the 1950's by the vehicle trade, in view of the fact that they made use of lots of electric motors. These days, they are utilized in other industrial and commercial applications.

Inside factory assembly for motor starter; motor control centers are fairly common technique. The MCC's comprise metering, variable frequency drives and programmable controllers. The MCC's are normally found in the electrical service entrance for a building. Motor control centers frequently are utilized for low voltage, 3-phase alternating current motors that range from 230 volts to 600 volts. Medium voltage motor control centers are made for large motors which vary from 2300V to 15000 V. These units make use of vacuum contractors for switching with separate compartments so as to attain power control and switching.

In factory locations and area that have corrosive or dusty processing, the MCC could be installed in climate controlled separated locations. Normally the MCC will be located on the factory floor adjacent to 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. In order to complete testing or maintenance, really big controllers can be bolted into place, whereas smaller controllers may be unplugged from the cabinet. Every motor controller has a contractor or a solid state motor controller, overload relays to protect the motor, fuses or circuit breakers to provide short-circuit protection as well as a disconnecting switch to be able to isolate the motor circuit. Separate connectors allow 3-phase power 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.

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

There are a lot of options concerning delivery of MCC's to the client. They can be delivered as an engineered assembly with interlocking wiring to a central control terminal panel board or programmable controller along with internal control. Conversely, they can be provided ready for the customer to connect all field wiring.

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