

Drive Motor for Forklifts

Drive Motor Forklift - Motor Control Centers or otherwise called MCC's, are an assembly of one enclosed section or more, which have a common power bus mainly consisting of motor control units. They have been used since the 1950's by the automobile business, for the reason that they used many electric motors. Today, they are used in various commercial and industrial applications.

In factory assembly for motor starter; motor control centers are rather common practice. The MCC's consist of variable frequency drives, programmable controllers and metering. The MCC's are usually utilized in the electrical service entrance for a building. Motor control centers frequently 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 utilize vacuum contractors for switching with separate compartments in order to accomplish power control and switching.

Within factory locations and area that have corrosive or dusty processing, the MCC can be installed in climate controlled separated locations. Normally the MCC would be positioned on the factory floor next 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. So as to complete testing or maintenance, very big controllers could 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 so as to isolate the motor circuit. Separate connectors enable 3-phase power to enter the controller. The motor is wired to terminals located inside the controller. Motor control centers supply wire ways for power cables and field control.

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

There are several options regarding delivery of MCC's to the client. They could be delivered as an engineered assembly with interlocking wiring to a central control terminal panel board or programmable controller along with internal control. On the other hand, they can be supplied prepared for the client to connect all field wiring.

Motor control centers normally sit on the floor and should have a fire-resistance rating. Fire stops can be necessary for cables which go through fire-rated floors and walls.