

Drive Motor for Forklift

Forklift Drive Motors - Motor Control Centers or also called MCC's, are an assembly of one or more enclosed sections, that have a common power bus principally containing motor control units. They have been used since the 1950's by the auto business, as they utilized a lot of electric motors. Now, they are utilized in various industrial and commercial applications.

Motor control centers are a modern method in factory assembly for some motor starters. This machine can comprise programmable controllers, metering and variable frequency drives. The MCC's are normally found in the electrical service entrance for a building. Motor control centers frequently are used for low voltage, 3-phase alternating current motors which range from 230 volts to 600 volts. Medium voltage motor control centers are intended for large motors which vary from 2300 volts to 15000 volts. These units make use of vacuum contractors for switching with separate compartments so as to accomplish power control and switching.

In areas where extremely corrosive or dusty processes are occurring, the motor control center can be established in a separate air-conditioned room. Usually the MCC will be located on the factory floor next to 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. To complete testing or maintenance, very big controllers can be bolted into place, while smaller controllers may be unplugged from the cabinet. Every motor controller has a solid state motor controller or a contractor, overload relays 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 to be able to enter the controller. The motor is wired to terminals located inside the controller. Motor control centers provide wire ways for power cables and field control.

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

There are numerous alternatives regarding delivery of MCC's to the customer. 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. On the other hand, they could be provided ready for the customer to connect all field wiring.

MCC's usually sit on floors which should have a fire-resistance rating. Fire stops could be necessary for cables that go through fire-rated walls and floors.