

Drive Motor for Forklifts

Forklift Drive Motor - Motor Control Centers or likewise called MCC's, are an assembly of one or more enclosed sections, that have a common power bus mostly containing motor control units. They have been utilized ever since the 1950's by the automobile industry, in view of the fact that they utilized a lot of electric motors. Now, they are utilized in different commercial and industrial applications.

In factory assembly for motor starter; motor control centers are somewhat common method. The MCC's include variable frequency drives, programmable controllers and metering. The MCC's are commonly used in the electrical service entrance for a building. Motor control centers commonly are used for low voltage, 3-phase alternating current motors that range from 230 V to 600V. Medium voltage motor control centers are designed for big motors that range from 2300 volts to 15000 volts. These units utilize vacuum contractors for switching with separate compartments so as to achieve power control and switching.

In factory area and locations which have corrosive or dusty processing, the MCC can be installed in climate controlled separated locations. Usually the MCC would be positioned 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. To complete maintenance or testing, very big controllers can be bolted into place, while smaller controllers could be unplugged from the cabinet. Each motor controller consists of a solid state motor controller or a contractor, overload relays to be able to protect the motor, circuit breaker or fuses to be able to provide short-circuit protection as well as a disconnecting switch in order to isolate the motor circuit. Separate connectors enable 3-phase power in order to enter the controller. The motor is wired to terminals positioned within the controller. Motor control centers provide wire ways for power cables and field control.

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

There are numerous choices regarding delivery of MCC's to the customer. They could be delivered as an engineered assembly with interlocking wiring to a central control terminal panel board or programmable controller together with internal control. On the other hand, they could be provided ready for the client to connect all field wiring.

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