

Forklift Drive Motors

Forklift Drive Motor - Motor Control Centers or likewise called MCC's, are an assembly of one enclosed section or more, that have a common power bus mostly consisting of motor control units. They have been utilized since the 1950's by the auto trade, because they utilized lots of electric motors. Nowadays, they are used in a variety of industrial and commercial applications.

Motor control centers are a modern practice in factory assembly for several motor starters. This particular machine can include variable frequency drives, programmable controllers and metering. The MCC's are commonly seen in the electrical service entrance for a building. Motor control centers commonly are used for low voltage, 3-phase alternating current motors that vary from 230 V to 600V. Medium voltage motor control centers are designed for large motors that vary from 2300 volts to 15000 volts. These units make use of vacuum contractors for switching with separate compartments to be able to accomplish power switching and control.

In places where extremely dusty or corrosive processes are happening, the motor control center could be established in a separate air-conditioned room. Usually the MCC would be situated 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. In order to complete maintenance or testing, extremely large controllers could 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 to be able to protect the motor, fuses or circuit breakers so as to supply short-circuit protection and a disconnecting switch so as to isolate the motor circuit. Separate connectors enable 3-phase power to be able to enter the controller. The motor is wired to terminals positioned in 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 a lot of various alternatives. Some of the alternatives consist of: pilot lamps, separate control transformers, extra control terminal blocks, control switches, and many kinds of bi-metal and solid-state overload protection relays. They even have different classes of kinds of circuit breakers and power fuses.

Concerning the delivery of motor control centers, there are lots of alternatives for the customer. These can be delivered as an engineered assembly with a programmable controller together with internal control or with interlocking wiring to a central control terminal panel board. On the other hand, they could be supplied ready for the customer to connect all field wiring.

Motor control centers usually sit on the floor and must have a fire-resistance rating. Fire stops may be necessary for cables that penetrate fire-rated walls and floors.