

Forklift Drive Motors

Forklift Drive Motor - MCC's or likewise known as Motor Control Centers are an assembly of one section or more which have a common power bus. These have been utilized in the auto trade since the 1950's, because they were used lots of electric motors. These days, they are used in other commercial and industrial applications.

Within factory assembly for motor starter; motor control centers are quite common technique. The MCC's include metering, variable frequency drives and programmable controllers. 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 volts to 600 volts. Medium voltage motor control centers are designed for big motors that range from 2300 volts to 15000 volts. These units make use of vacuum contractors for switching with separate compartments so as to attain power switching and control.

In areas where extremely dusty or corrosive methods are happening, the motor control center can be installed in a separate air-conditioned room. Normally the MCC will be positioned on the factory floor close to the equipment 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 be able to complete maintenance or testing, extremely large controllers could be bolted into place, while smaller controllers can be unplugged from the cabinet. Every motor controller has a contractor or a solid state motor controller, overload relays to protect the motor, circuit breaker or fuses to be able 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 in order to enter the controller. The motor is wired to terminals located in the controller. Motor control centers supply wire ways for power cables and field control.

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

There are many choices regarding 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 together with internal control. Conversely, they could be provided ready for the client to connect all field wiring.

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