

Drive Motor for Forklifts

Drive Motor Forklift - MCC's or otherwise known as Motor Control Centers are an assembly of one or more sections which contain a common power bus. These have been utilized in the vehicle industry since the 1950's, because they were made use of lots of electric motors. Nowadays, they are utilized in a variety of industrial and commercial applications.

Motor control centers are a modern technique in factory assembly for several motor starters. This machinery could comprise programmable controllers, metering and variable frequency drives. The MCC's are usually used in the electrical service entrance for a building. Motor control centers often are utilized for low voltage, 3-phase alternating current motors which vary from 230 volts to 600 volts. Medium voltage motor control centers are designed for big motors which range from 2300 volts to 15000 volts. These units use vacuum contractors for switching with separate compartments to be able to achieve power switching and control.

In locations where extremely dusty or corrosive processes are taking place, the motor control center could be installed in a separate air-conditioned room. Normally the MCC will be situated on the factory floor adjacent 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. To complete testing or maintenance, very big controllers could be bolted into place, whereas smaller controllers could be unplugged from the cabinet. Each motor controller consists of a solid state motor controller or a contractor, overload relays to protect the motor, circuit breaker or fuses to supply short-circuit protection as well as a disconnecting switch in order to isolate the motor circuit. Separate connectors allow 3-phase power to enter the controller. The motor is wired to terminals located inside the controller. Motor control centers offer wire ways for power cables and field control.

Each motor controller in a motor control center could be specified with different choices. These choices comprise: separate control transformers, extra control terminal blocks, control switches, pilot lamps, and numerous kinds of bi-metal and solid-state overload protection relays. They even have different classes of types of power fuses and circuit breakers.

There are several choices concerning 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 together with internal control. On the other hand, they could be provided set for the client to connect all field wiring.

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