

Drive Motor for Forklift

Forklift Drive Motor - Motor Control Centers or also called MCC's, are an assembly of one enclosed section or more, that have a common power bus mainly containing motor control units. They have been utilized ever since the 1950's by the vehicle trade, for the reason that they utilized many electric motors. Today, they are utilized in various commercial and industrial applications.

Motor control centers are a modern practice in factory assembly for several motor starters. This equipment could consist of metering, variable frequency drives and programmable controllers. The MCC's are normally utilized in the electrical service entrance for a building. Motor control centers often are used for low voltage, 3-phase alternating current motors that range from 230 V to 600V. Medium voltage motor control centers are intended for large motors that vary from 2300V to 15000 V. These units use vacuum contractors for switching with separate compartments in order to attain power control and switching.

Inside factory area and locations that have dusty or corrosive processing, the MCC could be installed in climate controlled separated locations. Usually the MCC would be located on the factory floor next 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 testing or maintenance, very big controllers could be bolted into place, while smaller controllers can be unplugged from the cabinet. Each and 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 to enter the controller. The motor is wired to terminals located in the controller. Motor control centers offer wire ways for power cables and field control.

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

Regarding the delivery of motor control centers, there are lots of choices for the client. 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 can be supplied set for the client to connect all field wiring.

MCC's usually sit on floors which should have a fire-resistance rating. Fire stops may be needed for cables which penetrate fire-rated walls and floors.