

Drive Motor for Forklift

Forklift Drive Motor - Motor Control Centers or MCC's, are an assembly of one or more enclosed sections, which have a common power bus mostly comprising motor control units. They have been utilized since the 1950's by the automobile industry, as they made use of a large number of electric motors. Today, they are used in a variety of commercial and industrial applications.

Motor control centers are a modern technique in factory assembly for several motor starters. This particular machine could 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 frequently 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 2300V to 15000 V. These units utilize vacuum contractors for switching with separate compartments in order to achieve power switching and control.

In locations where extremely corrosive or dusty processes are taking place, the motor control center can be installed in a separate air-conditioned room. Typically the MCC will be positioned on the factory floor near 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 complete maintenance or testing, really big controllers could be bolted into place, while smaller controllers could be unplugged from the cabinet. Every motor controller consists of a contractor or a solid state motor controller, overload relays to be able to protect the motor, circuit breaker or fuses to be able to supply short-circuit protection and a disconnecting switch so as to isolate the motor circuit. Separate connectors enable 3-phase power so as to enter the controller. The motor is wired to terminals located inside the controller. Motor control centers provide wire ways for power cables and field control.

Each and every motor controller within a motor control center can be specified with a range of options. These choices consist of: control switches, pilot lamps, separate control transformers, extra control terminal blocks, as well as various kinds of bi-metal and solid-state overload protection relays. They even have various classes of kinds of power fuses and circuit breakers.

Regarding the delivery of motor control centers, there are lots of options for the consumer. These can be delivered as an engineered assembly with a programmable controller along with internal control or with interlocking wiring to a central control terminal panel board. Conversely, they could be provided set for the client to connect all field wiring.

Motor control centers normally 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.