

Drive Motor for Forklifts

Forklift Drive Motor - Motor Control Centers or likewise called MCC's, are an assembly of one enclosed section or more, which have a common power bus mainly containing motor control units. They have been used since the 1950's by the auto trade, as they utilized many electric motors. Today, they are used in different industrial and commercial applications.

Motor control centers are a modern practice in factory assembly for several motor starters. This particular machinery can consist of variable frequency drives, programmable controllers and metering. The MCC's are usually seen in the electrical service entrance for a building. Motor control centers commonly are used for low voltage, 3-phase alternating current motors which range from 230 V to 600V. Medium voltage motor control centers are made for large motors which range from 2300 volts to 15000 volts. These units use vacuum contractors for switching with separate compartments in order to achieve power switching and control.

In places where really dusty or corrosive methods are happening, the motor control center may be installed in a separate air-conditioned room. Usually the MCC will be positioned 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. In order to complete maintenance or testing, very large controllers can be bolted into place, while smaller controllers could be unplugged from the cabinet. Each and 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 provide short-circuit protection and a disconnecting switch in order 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.

Every motor controller in a motor control center can be specified with a range of alternatives. These choices include: extra control terminal blocks, control switches, pilot lamps, separate control transformers, as well as many types of bi-metal and solid-state overload protection relays. They even comprise various classes of kinds of power fuses and circuit breakers.

Concerning the delivery of motor control centers, there are several choices for the client. These could 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 supplied set for the client to connect all field wiring.

MCC's usually sit on floors that are required to have a fire-resistance rating. Fire stops could be needed for cables that penetrate fire-rated walls and floors.