

Drive Motor for Forklifts

Drive Motor Forklifts - Motor Control Centers or MCC's, are an assembly of one or more enclosed sections, which have a common power bus mainly comprising motor control units. They have been used ever since the 1950's by the vehicle industry, because they used many electric motors. Nowadays, they are utilized in a variety of commercial and industrial applications.

Within factory assembly for motor starter; motor control centers are quite common method. The MCC's include metering, variable frequency drives and programmable controllers. The MCC's are commonly found in the electrical service entrance for a building. Motor control centers often are utilized for low voltage, 3-phase alternating current motors that vary 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 so as to accomplish power switching and control.

In areas where extremely dusty or corrosive processes are occurring, the motor control center could be installed in a separate air-conditioned room. Usually the MCC will be situated on the factory floor adjacent to the machinery 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. So as to complete testing or maintenance, very big controllers could be bolted into place, while smaller controllers may be unplugged from the cabinet. Every motor controller has a contractor or a solid state motor controller, overload relays to be able to protect the motor, circuit breaker or fuses to supply short-circuit protection as well as a disconnecting switch so as 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 offer wire ways for power cables and field control.

Within a motor control center, every motor controller could be specified with several different options. Some of the choices include: extra control terminal blocks, control switches, pilot lamps, separate control transformers, and various types of bi-metal and solid-state overload protection relays. They also comprise different classes of types of power fuses and circuit breakers.

There are various choices regarding delivery of MCC's to the customer. They could 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 can be supplied ready for the client to connect all field wiring.

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