

Drive Motor Forklifts

Drive Motor for Forklifts - Motor Control Centers or also called MCC's, are an assembly of one enclosed section or more, which have a common power bus mostly comprising motor control units. They have been used since the 1950's by the auto trade, in view of the fact that they used many electric motors. Now, they are used in other commercial and industrial applications.

Within factory assembly for motor starter; motor control centers are fairly common method. The MCC's include programmable controllers, metering and variable frequency drives. The MCC's are usually used in the electrical service entrance for a building. Motor control centers commonly are utilized for low voltage, 3-phase alternating current motors that range from 230 volts to 600 volts. Medium voltage motor control centers are intended for big motors which range from 2300V to 15000 V. These units use vacuum contractors for switching with separate compartments to be able to achieve power switching and control.

Within factory locations and area that have dusty or corrosive processing, the MCC can be installed in climate controlled separated locations. Usually the MCC will be positioned on the factory floor adjacent to the machinery it is controlling.

A MCC has one or more vertical metal cabinet sections with power bus and provisions for plug-in mounting of individual motor controllers. Smaller controllers can be unplugged from the cabinet to complete testing or maintenance, while extremely large controllers can be bolted in place. 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 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 provide wire ways for field control and power cables.

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

There are numerous options regarding delivery of MCC's to the client. 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. On the other hand, they can be supplied ready for the customer to connect all field wiring.

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